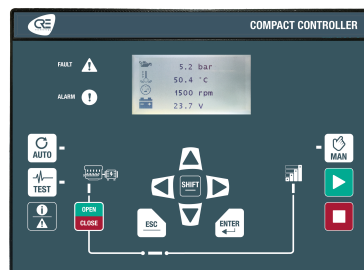




MODBUS TABLE

GENSYS COMPACT PRIME



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MODBUS TABLE

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MODBUS TCP/IP

ABILITIES

An Ethernet communication can be established between a Modbus master device and the controller which acts as a Modbus slave.

The Modbus master device can read/write many internal variables of the controller according to their access rights described below.

| Type | Range | Default access right |
|---|---|---|
| Readings (measurements, states,...). | [0000] ... [1999] | Read only. |
| Parameters. | [2000] ... [3999] | Read/Write. |
| Modes, statuses, settings,... Readings associated with digital inputs. | [4000] ... [9999] [4500] ... [4649], [4950]...[4999] | Read. Write (subject to activation). |

In addition, the following functions are supported:

- Reading bit fields, listed in a dedicated tab of the file and organized in 16-bit words.
- Reading contiguous configurable data block.

Those functions allow a significant performance gain and help reducing the load on an Ethernet network.

CONFIGURATION

To communicate through Modbus/TCP, define the following settings:

- The module IP address set in the **Controller settings** ⇒ **System** ⇒ **Network** page.
- The *Modbus TCP port* [3014], generally 502, set in the **Controller settings** ⇒ **System** ⇒ **Network** page.
- The Modbus/TCP rights: see further.

The module handles up to 6 simultaneous connections. This can be used for multiple HMIs for example. .



Warning:

Connecting the controller to an *i4Gen* device or the *i4Gen Suite* software will utilize one Modbus connection.

FUNCTIONS

The module supports the following Modbus functions:

| Functions | Description |
|-----------|---|
| 01, 02 | Read logical data (Coil status, discrete input status). |
| 03, 04 | Read holding/input registers (16 bit). |
| 05 | Write logical value (single coil). |
| 06 | Write single register (16-bit variable). |
| 15 (0x0F) | Write multiple logical values (multiple coils). |
| 16 (0x10) | Write multiple registers. |

MODBUS TABLE

All module variables are 16-bit registers. Yet it might be useful to consider them as logical values (if they are only set to 0 or 1) to simplify the Modbus/TCP protocol communication with some external PLC. If function 01 or 02 is used to read an internal register that is different from 0, then returned value will be 1.

The module registers start from address 0. Depending on your Modbus/TCP client equipment-software, you may need to use an offset of 1 when reading/writing registers as addresses may start from address 1. In this case, request address/register number 1 to access variable 0000 inside the module.

The 32-bit variables can only be written using 0x10 function.

If a digital input modifies a piece of data also to be written via Modbus, the latest request takes over the other.

Data [10000]...[10299] can be read by block (see further).

ACCESS RIGHTS

The access rights depend on the parameter type and on Modbus access permissions. To manage access rights, set to 1 the corresponding bits in the register [3015]:

| Description | Bit # | Default value |
|---|-------|---------------|
| Writing date/ time | 0 | 0 |
| Writing engine counters | 1 | 0 |
| Not used | 2 | 0 |
| Writing digital input function register | 3 | 1 |
| Not used | 4 | 0 |
| Not used | 5 | 0 |
| Not used | 6 | 0 |
| Not used | 7 | 0 |
| Reading via Modbus/TCP | 8 | 1 |
| Writing via Modbus/TCP | 9 | 1 |

Using the **Controller settings** ⇒ **Programming** ⇒ **Modbus** ⇒ **Modbus rights (i4Gen)** page, you can tick checkboxes to set those:

| Bit # | Label | Description |
|-------|--|---|
| 0 | Writing to date/ time | Module time synchronization. |
| 1 | Writing to Engine counters | Manual counters adjustment (see following table). |
| 3 | Writing to digital input function register | Opens the possibility to activate a digital input function using Modbus/TCP protocol. |
| 8 | Reading using Modbus/TCP protocol | Opens the possibility to grant reading individual permissions. |
| 9 | Writing using Modbus/TCP protocol | Opens the possibility to grant writing individual permissions. |

The counters, encoded on 32 bits, include:

| Meters (MSB LSB) | Label |
|------------------|--|
| [80] [79] | <i>Generator KWh</i> |
| [82] [81] | <i>Generator KVARh</i> |
| [84] [83] | <i>Number of hours generator running</i> |

BIT FIELDS

Bit fields are meant for decreasing communication bus load. They pack up to 16 logic variables inside a single register. This way, a single Modbus/TCP request can be used to read a group of information. Each variable contains the current value of 16 logic variables such as breaker positions, faults, alarms...



Note: Available data are related only to faults that occurred after the latest power up sequence. Events that occurred before the module has been power cycled are listed in the fault pages but not among the variables.

Example:

The table below shows a Modbus/TCP client sending a reading request (function 04) of 6 registers starting from variable [79].

| Client request | | Module server response | |
|--------------------------|-------|---|-------|
| Field | Value | Field | Value |
| Function code | 04 | Required function. | 04 |
| Starting Register (MSB) | 00 | Data bytes (= 2 * Number of requested registers). | 6 |
| Starting Register (LSB) | 79 | Value of register 0079 (MSB). | D0 |
| Count of registers (MSB) | 00 | Value of register 0079 (LSB). | D1 |
| Count of registers (LSB) | 06 | Value of register 0080 (MSB). | D2 |
| | | Value of register 0080 (LSB). | D3 |
| | | Value of register 0081 (MSB). | D4 |
| | | Value of register 0081 (LSB). | D5 |

VARIABLES

COMMANDS

| | |
|---------------------|----------------------------------|
| Variable | kW Setpoint |
| Address | [361] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -2000 |
| Max value | 2000 |
| Description | KW setpoint when in load sharing |

| | |
|---------------------|------------------------------------|
| Variable | kVAR Setpoint |
| Address | [362] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -2000 |
| Max value | 2000 |
| Description | KVar setpoint when in load sharing |

| | |
|---------------------|--------------------------------|
| Variable | Starter n°1 |
| Address | [4652] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Starter n°1 - cranking output. |

MODBUS TABLE

| | |
|---------------------|--------------------------------|
| Variable | Starter n°2 |
| Address | [4653] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Starter n°2 - cranking output. |

| | |
|---------------------|--------------------------------|
| Variable | Starter n°3 |
| Address | [4654] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Starter n°3 - cranking output. |

| | |
|---------------------|--|
| Variable | Fuel / Gas |
| Address | [4655] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Fuel output - Output is activated at start up and shut down to stop the engine. Also used as logical remote start command on local engine controllers such as Diesel Control Unit or ECU, when 'external start sequence' function is enable. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Horn |
| Address | [4663] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | External horn or warning light. Activated whenever a fault/alarm triggers. The output is disable on acknowledgment or reset. Horn timer is adjustable in timer menu (0s = permanent activation). |

| | |
|---------------------|---|
| Variable | Energize to stop |
| Address | [4674] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Output is energized to stop the engine fuel, activation remains from shutdown request untill engine is completely stopped (0rpm), an additionnal timer can be adjusted in timer menu. |

| | |
|---------------------|---|
| Variable | Generator breaker close |
| Address | [4675] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Command to close the breaker. Output signal (pulse or continue) will depend on configuration in Breaker settings. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Generator breaker open |
| Address | [4677] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Command to open the breaker. Output signal (pulse or continue) will depend on configuration in Breaker settings. |

| | |
|---------------------|---|
| Variable | Excitation command |
| Address | [4680] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Used for static paralleling: energizes the AVR excitation relay after startup of synchronized generator if nominal speed is reached, excitation will be disabled at stop or on protections. |

| | |
|---------------------|---|
| Variable | Pre-start (Glow plugs & Auxiliaries) |
| Address | [4685] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | This output is used to activate the glow plugs or any auxiliary functions before starting (water preheating, pre-lubrication, etc.) output is active at start command for a defines timer (adjustable in timer menu) and release before cranking. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Smoke limit / Position limiting |
| Address | [4686] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Smoke limit / Position limiting. Output will be activated from cranking to speed stabilisation. dedicated to activate a smoke limiter function on engine. |

| | |
|---------------------|--|
| Variable | Damper |
| Address | [4687] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Damping flap, activated during stop sequence untill reset in case of a fault resulting in a shut down. |

| | |
|---------------------|--|
| Variable | Cooling fan |
| Address | [4688] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Cooling fan output, activated if the water temperature is above the Cooling fan activation threshold parameter (Configuration/engine menu) |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | 1st non essential trip |
| Address | [4689] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | In case Load Shedding function is used: Load 1 to be shed in first |

| | |
|---------------------|--|
| Variable | 2nd non essential trip |
| Address | [4690] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | In case Load Shedding function is used: Load 2 to be shed after load 1 |

| | |
|---------------------|--|
| Variable | 3rd non essential trip |
| Address | [4691] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | In case Load Shedding function is used: Load 3 to be shed after load 2 |

| | |
|---------------------|--|
| Variable | 4th non essential trip |
| Address | [4692] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | In case Load Shedding function is used: Load 4 to be shed after load 3 |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | 5th non essential trip |
| Address | [4693] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | In case Load Shedding function is used: Load 5 to be shed after load 4 |

| | |
|---------------------|---|
| Variable | Increase speed by pulse |
| Address | [4699] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Speed regulator requiring +/- contacts. In manual mode, the output is activated when you press the "top arrow" key or with an "Increase speed in manual mode" |

| | |
|---------------------|--|
| Variable | Decrease speed by pulse |
| Address | [4700] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Speed regulator requiring +/- contacts. In manual mode, the output is activated when you press the "bottom arrow" key or with an "Decrease speed in manual mode" |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Increase voltage by pulse |
| Address | [4701] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Voltage regulator requiring +/- contacts. In manual mode, the output is activated when you press the "top arrow" key or with an "Increase voltage in manual mode" |

| | |
|---------------------|--|
| Variable | Decrease voltage by pulse |
| Address | [4702] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Voltage regulator requiring +/- contacts. In manual mode, the output is activated when you press the "bottom arrow" key or with an "Decrease voltage in manual mode" |

| | |
|---------------------|---|
| Variable | Idle speed |
| Address | [4704] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Idle request on speed governor activated during 'Engine preheat timer' and optionally on cooling down if configured. Must be connect to idle speed input of speed regulation. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Ignition |
| Address | [4707] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Ignition (Gas sequence). Output activated before starting sequence. |

| | |
|---------------------|---|
| Variable | Battery boost DO |
| Address | [4709] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Battery boost digital output. Activated with 'Boost battery' function (configuration/protection). |

| | |
|---------------------|---|
| Variable | Faults reset |
| Address | [4737] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Active when a Fault RESET is requested on controller. |

GENERATOR

| | |
|---------------------|--------------------------------------|
| Variable | Generator V1 |
| Address | [50] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Generator voltage neutral to phase 1 |

| | |
|---------------------|--------------------------------------|
| Variable | Generator V2 |
| Address | [51] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Generator voltage neutral to phase 2 |

| | |
|---------------------|--------------------------------------|
| Variable | Generator V3 |
| Address | [52] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Generator voltage neutral to phase 3 |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Generator U31 (%) |
| Address | [53] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -2000 |
| Max value | 2000 |
| Description | Generator Line to line voltage U31 in % of nominal voltage |

| | |
|---------------------|--|
| Variable | Generator U23 (%) |
| Address | [54] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -2000 |
| Max value | 2000 |
| Description | Generator Line to line voltage U23 in % of nominal voltage |

| | |
|---------------------|--|
| Variable | Generator U12 (%) |
| Address | [55] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -2000 |
| Max value | 2000 |
| Description | Generator Line to line voltage U12 in % of nominal voltage |

| | |
|---------------------|--------------------------------------|
| Variable | Generator U31 |
| Address | [56] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Generator voltage phase 1 to phase 3 |

MODBUS TABLE

| | |
|---------------------|--------------------------------------|
| Variable | Generator U23 |
| Address | [57] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Generator voltage phase 3 to phase 2 |

| | |
|---------------------|--------------------------------------|
| Variable | Generator U12 |
| Address | [58] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Generator voltage phase 2 to phase 1 |

| | |
|---------------------|--------------------------|
| Variable | Generator I1 |
| Address | [59] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Generator current I1 |

| | |
|---------------------|--------------------------|
| Variable | Generator I2 |
| Address | [60] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Generator current I2 |

MODBUS TABLE

| | |
|---------------------|--------------------------|
| Variable | Generator I3 |
| Address | [61] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Generator current I3 |

| | |
|---------------------|---------------------------|
| Variable | Generator Neutral I |
| Address | [62] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Generator neutral current |

| | |
|---------------------|-----------------------------|
| Variable | Generator $\cos(\varphi_1)$ |
| Address | [69] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -100 |
| Max value | 100 |
| Description | Generator PF 1 |

| | |
|---------------------|-----------------------------|
| Variable | Generator $\cos(\varphi_2)$ |
| Address | [70] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -100 |
| Max value | 100 |
| Description | Generator PF 2 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | Generator cos(φ_3) |
| Address | [71] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -100 |
| Max value | 100 |
| Description | Generator PF 3 |

| | |
|---------------------|----------------------------|
| Variable | Generator cos(φ) |
| Address | [74] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -100 |
| Max value | 100 |
| Description | Generator global PF |

| | |
|---------------------|--------------------------|
| Variable | Generator frequency |
| Address | [75] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 10000 |
| Description | Generator frequency |

| | |
|---------------------|--|
| Variable | GE f(%) |
| Address | [76] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -2000 |
| Max value | 2000 |
| Description | Generator frequency in % of active nominal frequency |

MODBUS TABLE

| | |
|---------------------|-----------------------------|
| Variable | Generator KWh |
| Address | [79] |
| Scale Factor | 0 |
| Type | Unsigned integer 32 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 4294967295 |
| Description | Generator kWH (lower bytes) |

| | |
|---------------------|-------------------------------|
| Variable | Generator KVARh |
| Address | [81] |
| Scale Factor | 0 |
| Type | Unsigned integer 32 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 4294967295 |
| Description | Generator kVARH (lower bytes) |

| | |
|---------------------|-----------------------------------|
| Variable | Number of hours generator running |
| Address | [83] |
| Scale Factor | 0 |
| Type | Unsigned integer 32 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 4294967295 |
| Description | Generator run hours (lower bytes) |

| | |
|---------------------|--------------------------|
| Variable | Generator Minutes Run |
| Address | [85] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 59 |
| Description | Generator run minutes |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Earth fault current |
| Address | [86] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Current measured on earth fault CT input. |

| | |
|---------------------|---|
| Variable | Generator Auxiliary Hours Run |
| Address | [93] |
| Scale Factor | 0 |
| Type | Unsigned integer 32 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 4294967295 |
| Description | Generator auxiliary run hours (lower bytes) |

| | |
|---------------------|---------------------------------|
| Variable | Generator Auxiliary Minutes Run |
| Address | [95] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 59 |
| Description | Generator auxiliary run minutes |

| | |
|---------------------|--|
| Variable | Number of hours in override mode |
| Address | [96] |
| Scale Factor | 0 |
| Type | Unsigned integer 32 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 4294967295 |
| Description | Running hours in override mode (lower bytes) |

MODBUS TABLE

| | |
|---------------------|----------------------------------|
| Variable | Override Minutes Run |
| Address | [98] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 59 |
| Description | Running minutes in override mode |

| | |
|---------------------|------------------------|
| Variable | Voltage diff. |
| Address | [300] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -2000 |
| Max value | 2000 |
| Description | Difference of voltage |

| | |
|---------------------|-------------------------|
| Variable | Freq. diff. |
| Address | [301] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -10000 |
| Max value | 10000 |
| Description | Difference of frequency |

| | |
|---------------------|------------------------------|
| Variable | Phase diff. |
| Address | [302] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -180 |
| Max value | 180 |
| Description | Difference of phase (filter) |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Phase Sequence (0 = indirect, 1=direct, 2=Error, 3=No Signal) |
| Address | [304] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 3 |
| Description | Rotophase : Phi sequence of the genset polarity (0 = indirect, 1=direct, 2=Error, 3=No Signal) |

| | |
|---------------------|----------------------------|
| Variable | Generator active power (%) |
| Address | [358] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -2000 |
| Max value | 2000 |
| Description | Generator active power (%) |

| | |
|---------------------|------------------------------|
| Variable | Generator reactive power (%) |
| Address | [359] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -2000 |
| Max value | 2000 |
| Description | Generator global KVAR |

| | |
|---------------------|------------------------|
| Variable | Generator P1 |
| Address | [363] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Generator kW 1 |

MODBUS TABLE

| | |
|---------------------|------------------------|
| Variable | Generator P2 |
| Address | [364] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Generator kW 2 |

| | |
|---------------------|------------------------|
| Variable | Generator P3 |
| Address | [365] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Generator kW 3 |

| | |
|---------------------|------------------------|
| Variable | Generator Q1 |
| Address | [366] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Generator kVAR 1 |

| | |
|---------------------|------------------------|
| Variable | Generator Q2 |
| Address | [367] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Generator kVAR 2 |

MODBUS TABLE

| | |
|---------------------|------------------------|
| Variable | Generator Q3 |
| Address | [368] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Generator kVAR 3 |

| | |
|---------------------|------------------------|
| Variable | Generator total P |
| Address | [369] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Generator global kW |

| | |
|---------------------|------------------------|
| Variable | Generator total Q |
| Address | [370] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Generator global kVAR |

| | |
|---------------------|---|
| Variable | Fail to close generator breaker |
| Address | [4154] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Fault report: The automated system tried to close the circuit breaker without success |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Fail to open generator breaker |
| Address | [4155] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Fault report: The automated system tried to open the circuit breaker without success |

| | |
|---------------------|--|
| Variable | Generator breaker open suddenly |
| Address | [4156] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Fault report: The circuit breaker has opened without any request for opening from the automated system |

| | |
|---------------------|--|
| Variable | Generator breaker close suddenly |
| Address | [4170] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Fault report: The circuit breaker has closed without any request for closing from the automated system |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Fail to stabilize speed |
| Address | [4477] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Fault report: The speed is not stable, it is not maintained between 95% and 105% of the nominal speed |

| | |
|---------------------|---|
| Variable | Fail to stabilize voltage |
| Address | [4478] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Fault report: The voltage is not stable, it is not maintained between 95% and 105% of the nominal voltage |

| | |
|---------------------|--|
| Variable | Generator breaker state |
| Address | [4650] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Status report: Gives the state desired by the automated system for the circuit breaker (0: opening / 1: closing). Not to be confused with the closing command, whose behaviour depends on the configuration (Contact, Impulse, etc). |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Generator ready |
| Address | [4670] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Status report: Active when start sequence is succesful and generator at its nominal frequency and voltage. The variable remains active until the engine is requested to stopped. |

| | |
|---------------------|---|
| Variable | Generator ready and breaker closed |
| Address | [4672] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Status report: Active if generator(s) are producing |

| | |
|---------------------|---|
| Variable | Generator stop |
| Address | [4673] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Status report: Activated if generator is stopped (speed <10rpm) |

MODBUS TABLE

BUS

| | |
|---------------------|--------------------------------------|
| Variable | Bus V1 |
| Address | [100] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Bus/Mains voltage neutral to phase 1 |

| | |
|---------------------|--------------------------------------|
| Variable | Bus V2 |
| Address | [101] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Bus/Mains voltage neutral to phase 2 |

| | |
|---------------------|--------------------------------------|
| Variable | Bus V3 |
| Address | [102] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Bus/Mains voltage neutral to phase 3 |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Bus U31 (%) |
| Address | [103] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -2000 |
| Max value | 2000 |
| Description | Bus/Mains Line to line voltage U31 in % of nominal voltage |

| | |
|---------------------|--|
| Variable | Bus U23 (%) |
| Address | [104] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -2000 |
| Max value | 2000 |
| Description | Bus/Mains Line to line voltage U23 in % of nominal voltage |

| | |
|---------------------|--|
| Variable | Bus U12 (%) |
| Address | [105] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -2000 |
| Max value | 2000 |
| Description | Bus/Mains Line to line voltage U12 in % of nominal voltage |

| | |
|---------------------|--------------------------------------|
| Variable | Bus U31 |
| Address | [106] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Bus/Mains voltage phase 1 to phase 3 |

MODBUS TABLE

| | |
|---------------------|--------------------------------------|
| Variable | Bus U23 |
| Address | [107] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Bus/Mains voltage phase 3 to phase 2 |

| | |
|---------------------|--------------------------------------|
| Variable | Bus U12 |
| Address | [108] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Bus/Mains voltage phase 2 to phase 1 |

| | |
|---------------------|------------------------|
| Variable | Bus cos(φ) |
| Address | [114] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -100 |
| Max value | 100 |
| Description | Bus/Mains global PF |

| | |
|---------------------|--------------------------|
| Variable | Bus frequency |
| Address | [118] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 10000 |
| Description | Bus/Mains frequency |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Bus frequency (%) |
| Address | [119] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -2000 |
| Max value | 2000 |
| Description | Bus/Mains frequency in % of active nominal frequency |

| | |
|---------------------|---|
| Variable | Dead bus bar |
| Address | [124] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | There is no voltage on the common bus bar |

| | |
|---------------------|------------------------|
| Variable | Bus total P |
| Address | [140] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Bus/Mains global kW |

| | |
|---------------------|------------------------|
| Variable | Bus total Q |
| Address | [141] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Bus/Mains global kVAR |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Phase Sequence (0 = indirect, 1=direct, 2=Error, 3=No Signal) |
| Address | [305] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 3 |
| Description | Rotophase : Phi sequence of the busbar polarity (0 = indirect, 1=direct, 2=Error, 3=No Signal) |

ENGINE

| | |
|---------------------|--------------------------|
| Variable | Oil pressure |
| Address | [200] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Oil pressure |

| | |
|---------------------|---------------------------|
| Variable | Water coolant temperature |
| Address | [201] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Water temperature |

MODBUS TABLE

| | |
|---------------------|--------------------------|
| Variable | Engine speed |
| Address | [202] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 10000 |
| Description | Speed |

| | |
|---------------------|---|
| Variable | GE Speed (%) |
| Address | [203] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -2000 |
| Max value | 2000 |
| Description | Engine speed in % of active nominal speed |

| | |
|---------------------|---|
| Variable | Unexpected stop |
| Address | [4451] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Fault report: The engine has stopped without a stop request from the automated system |

| | |
|---------------------|---|
| Variable | Fail to stop engine |
| Address | [4472] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Fault report: The automated system tried to stop the engine without success |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Fail to start engine |
| Address | [4475] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Fault report: The automated system tried to start the engine without success |

| | |
|---------------------|--------------------------|
| Variable | Timer Ignition ON |
| Address | [4480] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Timer Ignition ON |

| | |
|---------------------|--------------------------|
| Variable | Timer Gas ON |
| Address | [4481] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Timer Gas ON |

| | |
|---------------------|--------------------------|
| Variable | Timer Ignition OFF |
| Address | [4482] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Timer Ignition OFF |

CAN BUS ECU/ECM

| | |
|---------------------|---|
| Variable | Protection Lamp |
| Address | [658] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Protection Lamp status (PGN : 65226 / SPN: 987) |

| | |
|---------------------|--|
| Variable | Amber Warning Lamp |
| Address | [659] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Amber Warning Lamp status (PGN : 65226 / SPN: 624) |

| | |
|---------------------|---|
| Variable | Red Stop Lamp |
| Address | [660] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Red Stop Lamp status (PGN : 65226 / SPN: 623) |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Malfunction Indicator Lamp |
| Address | [661] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Malfunction Indicator Lamp status (PGN : 65226 / SPN: 1213) |

| | |
|---------------------|--------------------------|
| Variable | Engine speed |
| Address | [679] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine speed |

| | |
|---------------------|--------------------------|
| Variable | Oil pressure |
| Address | [680] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Oil Pressure 1 |

| | |
|---------------------|----------------------------|
| Variable | Coolant temperature |
| Address | [681] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Coolant Temperature |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | Accelerator Pedal Position 1 |
| Address | [682] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Accelerator Pedal Position 1 |

| | |
|---------------------|--------------------------------------|
| Variable | Engine Percent Load At Current Speed |
| Address | [683] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Percent Load At Current Speed |

| | |
|---------------------|---|
| Variable | Driver's Demand Engine - Percent Torque |
| Address | [684] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Driver's Demand Engine - Percent Torque |

| | |
|---------------------|--------------------------------|
| Variable | Actual Engine - Percent Torque |
| Address | [685] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Actual Engine - Percent Torque |

MODBUS TABLE

| | |
|---------------------|--------------------------------|
| Variable | Engine Demand - Percent Torque |
| Address | [686] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Demand - Percent Torque |

| | |
|---------------------|---|
| Variable | Engine Intake Manifold #1 Absolute Pressure |
| Address | [687] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Intake Manifold #1 Absolute Pressure |

| | |
|---------------------|--|
| Variable | Engine Exhaust Manifold Bank 2 Temperature 1 |
| Address | [688] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Exhaust Manifold Bank 2 Temperature 1 |

| | |
|---------------------|--|
| Variable | Engine Exhaust Manifold Bank 1 Temperature 1 |
| Address | [689] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Exhaust Manifold Bank 1 Temperature 1 |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Engine Fuel Valve 1 Intake Absolute Pressure |
| Address | [690] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Fuel Valve 1 Intake Absolute Pressure |

| | |
|---------------------|--------------------------|
| Variable | Auxiliary Pressure #1 |
| Address | [691] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Auxiliary Pressure #1 |

| | |
|---------------------|--------------------------|
| Variable | Auxiliary Pressure #2 |
| Address | [692] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Auxiliary Pressure #2 |

| | |
|---------------------|-----------------------------------|
| Variable | Engine Oil Filter Intake Pressure |
| Address | [693] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Oil Filter Intake Pressure |

MODBUS TABLE

| | |
|---------------------|-------------------------------------|
| Variable | Instantaneous Estimated Brake Power |
| Address | [694] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Instantaneous Estimated Brake Power |

| | |
|---------------------|------------------------|
| Variable | Engine ECU Temperature |
| Address | [695] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine ECU Temperature |

| | |
|---------------------|---|
| Variable | Engine Alternator Winding 1 Temperature |
| Address | [696] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Alternator Winding 1 Temperature |

| | |
|---------------------|---|
| Variable | Engine Alternator Winding 2 Temperature |
| Address | [697] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Alternator Winding 2 Temperature |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Engine Alternator Winding 3 Temperature |
| Address | [698] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Alternator Winding 3 Temperature |

| | |
|---------------------|--------------------------|
| Variable | Trip Fuel (Gaseous) |
| Address | [699] |
| Scale Factor | 0 |
| Type | Unsigned integer 32 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 4294967295 |
| Description | Trip Fuel (Gaseous) |

| | |
|---------------------|---------------------------|
| Variable | Total Fuel Used (Gaseous) |
| Address | [701] |
| Scale Factor | 0 |
| Type | Unsigned integer 32 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 4294967295 |
| Description | Total Fuel Used (Gaseous) |

| | |
|---------------------|--------------------------|
| Variable | Engine Rated Power |
| Address | [703] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Rated Power |

MODBUS TABLE

| | |
|---------------------|--------------------------|
| Variable | Engine Rated Speed |
| Address | [704] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Rated Speed |

| | |
|---------------------|--------------------------------------|
| Variable | Active Diagnostic Trouble Code Count |
| Address | [705] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Active Diagnostic Trouble Code Count |

| | |
|---------------------|---|
| Variable | Engine Fuel 1 Injector Metering Rail 1 Pressure |
| Address | [706] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Fuel 1 Injector Metering Rail 1 Pressure |

| | |
|---------------------|-----------------------------------|
| Variable | Nominal Friction - Percent Torque |
| Address | [707] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Nominal Friction - Percent Torque |

MODBUS TABLE

| | |
|---------------------|----------------------------------|
| Variable | Engine's Desired Operating Speed |
| Address | [708] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine's Desired Operating Speed |

| | |
|---------------------|---------------------------------|
| Variable | Engine Total Hours of Operation |
| Address | [709] |
| Scale Factor | 1 |
| Type | Unsigned integer 32 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 4294967295 |
| Description | Engine Total Hours of Operation |

| | |
|---------------------|--------------------------|
| Variable | Engine Trip Fuel |
| Address | [711] |
| Scale Factor | 0 |
| Type | Unsigned integer 32 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 4294967295 |
| Description | Engine Trip Fuel |

| | |
|---------------------|--------------------------|
| Variable | Engine Total Fuel Used |
| Address | [713] |
| Scale Factor | 0 |
| Type | Unsigned integer 32 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 4294967295 |
| Description | Engine Total Fuel Used |

MODBUS TABLE

| | |
|---------------------|-----------------------------|
| Variable | Engine Fuel 1 Temperature 1 |
| Address | [715] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Fuel 1 Temperature 1 |

| | |
|---------------------|--------------------------|
| Variable | Engine Oil Temperature 1 |
| Address | [716] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Oil Temperature 1 |

| | |
|---------------------|---------------------------------------|
| Variable | Engine Turbocharger 1 Oil Temperature |
| Address | [717] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Turbocharger 1 Oil Temperature |

| | |
|---------------------|--------------------------------|
| Variable | Engine Intercooler Temperature |
| Address | [718] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Intercooler Temperature |

MODBUS TABLE

| | |
|---------------------|-------------------------------|
| Variable | Engine Fuel Delivery Pressure |
| Address | [719] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Fuel Delivery Pressure |

| | |
|---------------------|--|
| Variable | Engine Extended Crankcase Blow-by Pressure |
| Address | [720] |
| Scale Factor | 3 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Extended Crankcase Blow-by Pressure |

| | |
|---------------------|--------------------------|
| Variable | Engine Oil Level |
| Address | [721] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Oil Level |

| | |
|---------------------|-----------------------------|
| Variable | Engine Crankcase Pressure 1 |
| Address | [722] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Crankcase Pressure 1 |

MODBUS TABLE

| | |
|---------------------|---------------------------|
| Variable | Engine Coolant Pressure 1 |
| Address | [723] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Coolant Pressure 1 |

| | |
|---------------------|--------------------------|
| Variable | Engine Coolant Level 1 |
| Address | [724] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Coolant Level 1 |

| | |
|---------------------|--------------------------|
| Variable | Engine Fuel Rate |
| Address | [725] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Fuel Rate |

| | |
|---------------------|-----------------------------------|
| Variable | Engine Instantaneous Fuel Economy |
| Address | [726] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Instantaneous Fuel Economy |

MODBUS TABLE

| | |
|---------------------|--------------------------|
| Variable | Barometric Pressure |
| Address | [727] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Barometric Pressure |

| | |
|---------------------|-------------------------|
| Variable | Ambient Air Temperature |
| Address | [728] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Ambient Air Temperature |

| | |
|---------------------|---------------------------------|
| Variable | Engine Intake 1 Air Temperature |
| Address | [729] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Intake 1 Air Temperature |

| | |
|---------------------|---|
| Variable | Aftertreatment 1 Diesel Particulate Filter Intake Pressure (use SPN 3609) |
| Address | [730] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Aftertreatment 1 Diesel Particulate Filter Intake Pressure (use SPN 3609) |

MODBUS TABLE

| | |
|---------------------|------------------------------------|
| Variable | Engine Intake Manifold #1 Pressure |
| Address | [731] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Intake Manifold #1 Pressure |

| | |
|---------------------|--------------------------------------|
| Variable | Engine Intake Manifold 1 Temperature |
| Address | [732] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Intake Manifold 1 Temperature |

| | |
|---------------------|----------------------------|
| Variable | Engine Intake Air Pressure |
| Address | [733] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Intake Air Pressure |

| | |
|---------------------|---|
| Variable | Engine Air Filter 1 Differential Pressure |
| Address | [734] |
| Scale Factor | 3 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Air Filter 1 Differential Pressure |

MODBUS TABLE

| | |
|---------------------|----------------------------|
| Variable | Engine Exhaust Temperature |
| Address | [735] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Exhaust Temperature |

| | |
|---------------------|---|
| Variable | Engine Coolant Filter Differential Pressure |
| Address | [736] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Coolant Filter Differential Pressure |

| | |
|---------------------|-----------------------------------|
| Variable | Battery Potential / Power Input 1 |
| Address | [737] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Battery Potential / Power Input 1 |

| | |
|---------------------|------------------------------|
| Variable | Key Switch Battery Potential |
| Address | [738] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Key Switch Battery Potential |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Engine Oil Filter Differential Pressure |
| Address | [739] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Oil Filter Differential Pressure |

| | |
|---------------------|---------------------------|
| Variable | Water In Fuel Indicator 1 |
| Address | [740] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Water In Fuel Indicator 1 |

| | |
|---------------------|-------------------------------|
| Variable | Engine Speed At Idle, Point 1 |
| Address | [741] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Speed At Idle, Point 1 |

| | |
|---------------------|---------------------------|
| Variable | Maximum speed |
| Address | [742] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Trip Maximum Engine Speed |

MODBUS TABLE

| | |
|---------------------|--------------------------|
| Variable | Engine Derate Switch |
| Address | [754] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Derate Switch |

| | |
|---------------------|----------------------------------|
| Variable | Engine Auxiliary Shutdown Switch |
| Address | [755] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Auxiliary Shutdown Switch |

| | |
|---------------------|------------------------------|
| Variable | Accelerator Pedal 2 Position |
| Address | [756] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Accelerator Pedal 2 Position |

| | |
|---------------------|--------------------------|
| Variable | Engine Torque Mode |
| Address | [757] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Torque Mode |

MODBUS TABLE

| | |
|---------------------|--------------------------|
| Variable | Generator Governing Bias |
| Address | [758] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Generator Governing Bias |

| | |
|---------------------|----------------------------------|
| Variable | SCR System Cleaning Lamp Command |
| Address | [759] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | SCR System Cleaning Lamp Command |

| | |
|---------------------|----------------------------|
| Variable | SCR System Cleaning Status |
| Address | [760] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | SCR System Cleaning Status |

| | |
|---------------------|--------------------------------------|
| Variable | SCR System Cleaning Inhibited Status |
| Address | [761] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | SCR System Cleaning Inhibited Status |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | SCR System Cleaning Inhibited Due to Inhibit Switch |
| Address | [762] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | SCR System Cleaning Inhibited Due to Inhibit Switch |

| | |
|---------------------|-----------------------------------|
| Variable | SCR System Cleaning Forced Status |
| Address | [763] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | SCR System Cleaning Forced Status |

| | |
|---------------------|---|
| Variable | Aftertreatment 1 SCR Intake Temperature |
| Address | [764] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Aftertreatment 1 SCR Intake Temperature |

| | |
|---------------------|---|
| Variable | Aftertreatment 1 SCR Outlet Temperature |
| Address | [765] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Aftertreatment 1 SCR Outlet Temperature |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Aftertreatment 1 Diesel Exhaust Fluid Tank Heater Command |
| Address | [766] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Aftertreatment 1 Diesel Exhaust Fluid Tank Heater Command |

| | |
|---------------------|--|
| Variable | Aftertreatment 1 Diesel Particulate Filter Soot Load Percent |
| Address | [767] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Aftertreatment 1 Diesel Particulate Filter Soot Load Percent |

| | |
|---------------------|---|
| Variable | Aftertreatment 1 Diesel Particulate Filter Ash Load Percent |
| Address | [768] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Aftertreatment 1 Diesel Particulate Filter Ash Load Percent |

| | |
|---------------------|--|
| Variable | Aftertreatment 1 Diesel Particulate Filter Time Since Last Active Regeneration |
| Address | [769] |
| Scale Factor | 0 |
| Type | Unsigned integer 32 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 4294967295 |
| Description | Aftertreatment 1 Diesel Particulate Filter Time Since Last Active Regeneration |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Aftertreatment 1 Diesel Particulate Filter Soot Load Regeneration Threshold |
| Address | [771] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Aftertreatment 1 Diesel Particulate Filter Soot Load Regeneration Threshold |

| | |
|---------------------|--|
| Variable | Diesel Particulate Filter Lamp Command |
| Address | [772] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Diesel Particulate Filter Lamp Command |

| | |
|---------------------|--|
| Variable | Aftertreatment Diesel Particulate Filter Passive Regeneration Status |
| Address | [773] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Aftertreatment Diesel Particulate Filter Passive Regeneration Status |

| | |
|---------------------|---|
| Variable | Aftertreatment Diesel Particulate Filter Active Regeneration Status |
| Address | [774] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Aftertreatment Diesel Particulate Filter Active Regeneration Status |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Aftertreatment Diesel Particulate Filter Status |
| Address | [775] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Aftertreatment Diesel Particulate Filter Status |

| | |
|---------------------|--|
| Variable | Diesel Particulate Filter Active Regeneration Inhibited Status |
| Address | [776] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Diesel Particulate Filter Active Regeneration Inhibited Status |

| | |
|---------------------|---|
| Variable | Diesel Particulate Filter Active Regeneration Inhibited Due to Inhibit Switch |
| Address | [777] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Diesel Particulate Filter Active Regeneration Inhibited Due to Inhibit Switch |

| | |
|---------------------|--|
| Variable | Exhaust System High Temperature Lamp Command |
| Address | [778] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Exhaust System High Temperature Lamp Command |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Aftertreatment 1 Diesel Particulate Filter Conditions Not Met for Active Regeneration |
| Address | [779] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Aftertreatment 1 Diesel Particulate Filter Conditions Not Met for Active Regeneration |

| | |
|---------------------|--|
| Variable | Aftertreatment 1 Diesel Particulate Filter Intake Pressure |
| Address | [780] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Aftertreatment 1 Diesel Particulate Filter Intake Pressure |

| | |
|---------------------|--------------------------|
| Variable | Engine Derate Request |
| Address | [781] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Derate Request |

| | |
|---------------------|---|
| Variable | Aftertreatment 1 Diesel Particulate Filter Outlet Temperature |
| Address | [782] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Aftertreatment 1 Diesel Particulate Filter Outlet Temperature |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Aftertreatment 1 Diesel Particulate Filter Intake Temperature |
| Address | [783] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Aftertreatment 1 Diesel Particulate Filter Intake Temperature |

| | |
|---------------------|---------------------------|
| Variable | SLI Battery 1 Temperature |
| Address | [784] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | SLI Battery 1 Temperature |

| | |
|---------------------|---|
| Variable | Aftertreatment 1 Diesel Exhaust Fluid Tank Volume |
| Address | [785] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Aftertreatment 1 Diesel Exhaust Fluid Tank Volume |

| | |
|---------------------|--|
| Variable | Aftertreatment 1 Diesel Exhaust Fluid Tank Temperature 1 |
| Address | [786] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Aftertreatment 1 Diesel Exhaust Fluid Tank Temperature 1 |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Aftertreatment 1 Diesel Exhaust Fluid Tank Level |
| Address | [787] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Aftertreatment 1 Diesel Exhaust Fluid Tank Level |

| | |
|---------------------|--|
| Variable | Aftertreatment Diesel Exhaust Fluid Tank Low Level Indicator |
| Address | [788] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Aftertreatment Diesel Exhaust Fluid Tank Low Level Indicator |

| | |
|---------------------|---|
| Variable | Aftertreatment SCR Operator Inducement Severity |
| Address | [789] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Aftertreatment SCR Operator Inducement Severity |

| | |
|---------------------|---|
| Variable | Aftertreatment 1 Diesel Exhaust Fluid Tank Heater |
| Address | [790] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Aftertreatment 1 Diesel Exhaust Fluid Tank Heater |

MODBUS TABLE

| | |
|---------------------|-------------------------|
| Variable | Auxiliary Temperature 1 |
| Address | [791] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Auxiliary Temperature 1 |

| | |
|---------------------|-----------------------------------|
| Variable | Engine Auxiliary Coolant Pressure |
| Address | [792] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Auxiliary Coolant Pressure |

| | |
|---------------------|--------------------------------------|
| Variable | Engine Auxiliary Coolant Temperature |
| Address | [793] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Auxiliary Coolant Temperature |

| | |
|---------------------|--|
| Variable | Engine Turbocharger 1 Turbine Intake Temperature |
| Address | [794] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Turbocharger 1 Turbine Intake Temperature |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Engine Turbocharger 2 Turbine Intake Temperature |
| Address | [795] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Turbocharger 2 Turbine Intake Temperature |

| | |
|---------------------|--|
| Variable | Engine Turbocharger 1 Compressor Intake Pressure |
| Address | [796] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Turbocharger 1 Compressor Intake Pressure |

| | |
|---------------------|--|
| Variable | Engine Turbocharger 2 Compressor Intake Pressure |
| Address | [1150] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Turbocharger 2 Compressor Intake Pressure |

| | |
|---------------------|--|
| Variable | Engine Exhaust Gas Port 17 Temperature |
| Address | [1151] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Exhaust Gas Port 17 Temperature |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Engine Exhaust Gas Port 18 Temperature |
| Address | [1152] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Exhaust Gas Port 18 Temperature |

| | |
|---------------------|--|
| Variable | Engine Exhaust Gas Port 19 Temperature |
| Address | [1153] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Exhaust Gas Port 19 Temperature |

| | |
|---------------------|--|
| Variable | Engine Exhaust Gas Port 20 Temperature |
| Address | [1154] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Exhaust Gas Port 20 Temperature |

| | |
|---------------------|--|
| Variable | Engine Exhaust Gas Port 13 Temperature |
| Address | [1155] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Exhaust Gas Port 13 Temperature |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Engine Exhaust Gas Port 14 Temperature |
| Address | [1156] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Exhaust Gas Port 14 Temperature |

| | |
|---------------------|--|
| Variable | Engine Exhaust Gas Port 15 Temperature |
| Address | [1157] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Exhaust Gas Port 15 Temperature |

| | |
|---------------------|--|
| Variable | Engine Exhaust Gas Port 16 Temperature |
| Address | [1158] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Exhaust Gas Port 16 Temperature |

| | |
|---------------------|---------------------------------------|
| Variable | Engine Exhaust Gas Port 9 Temperature |
| Address | [1159] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Exhaust Gas Port 9 Temperature |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Engine Exhaust Gas Port 10 Temperature |
| Address | [1160] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Exhaust Gas Port 10 Temperature |

| | |
|---------------------|--|
| Variable | Engine Exhaust Gas Port 11 Temperature |
| Address | [1161] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Exhaust Gas Port 11 Temperature |

| | |
|---------------------|--|
| Variable | Engine Exhaust Gas Port 12 Temperature |
| Address | [1162] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Exhaust Gas Port 12 Temperature |

| | |
|---------------------|---------------------------------------|
| Variable | Engine Exhaust Gas Port 5 Temperature |
| Address | [1163] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Exhaust Gas Port 5 Temperature |

MODBUS TABLE

| | |
|---------------------|---------------------------------------|
| Variable | Engine Exhaust Gas Port 6 Temperature |
| Address | [1164] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Exhaust Gas Port 6 Temperature |

| | |
|---------------------|---------------------------------------|
| Variable | Engine Exhaust Gas Port 7 Temperature |
| Address | [1165] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Exhaust Gas Port 7 Temperature |

| | |
|---------------------|---------------------------------------|
| Variable | Engine Exhaust Gas Port 8 Temperature |
| Address | [1166] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Exhaust Gas Port 8 Temperature |

| | |
|---------------------|---------------------------------------|
| Variable | Engine Exhaust Gas Port 1 Temperature |
| Address | [1167] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Exhaust Gas Port 1 Temperature |

MODBUS TABLE

| | |
|---------------------|---------------------------------------|
| Variable | Engine Exhaust Gas Port 2 Temperature |
| Address | [1168] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Exhaust Gas Port 2 Temperature |

| | |
|---------------------|---------------------------------------|
| Variable | Engine Exhaust Gas Port 3 Temperature |
| Address | [1169] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Exhaust Gas Port 3 Temperature |

| | |
|---------------------|---------------------------------------|
| Variable | Engine Exhaust Gas Port 4 Temperature |
| Address | [1170] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Exhaust Gas Port 4 Temperature |

| | |
|---------------------|---|
| Variable | Engine Alternator Bearing 1 Temperature |
| Address | [1171] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Alternator Bearing 1 Temperature |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Engine Alternator Bearing 2 Temperature |
| Address | [1172] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Engine Alternator Bearing 2 Temperature |

| | |
|---------------------|---|
| Variable | Engine Fuel 1 Injector Timing Rail 1 Pressure |
| Address | [1173] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Fuel 1 Injector Timing Rail 1 Pressure |

| | |
|---------------------|---------------------------|
| Variable | Engine Wait to Start Lamp |
| Address | [1174] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Wait to Start Lamp |

| | |
|---------------------|--|
| Variable | Engine Protection System has Shutdown Engine |
| Address | [1175] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Protection System has Shutdown Engine |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Engine Protection System Approaching Shutdown |
| Address | [1176] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Protection System Approaching Shutdown |

| | |
|---------------------|---|
| Variable | Engine Charge Air Cooler Thermostat Opening |
| Address | [1177] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Charge Air Cooler Thermostat Opening |

| | |
|---------------------|------------------------------------|
| Variable | Engine Throttle Valve 1 Position 1 |
| Address | [1178] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Throttle Valve 1 Position 1 |

| | |
|---------------------|-------------------------------------|
| Variable | Charging System Potential (Voltage) |
| Address | [1179] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Charging System Potential (Voltage) |

MODBUS TABLE

| | |
|---------------------|-----------------------------|
| Variable | Transmission 1 Oil Pressure |
| Address | [1180] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Transmission 1 Oil Pressure |

| | |
|---------------------|--|
| Variable | Engine Fuel Filter Differential Pressure |
| Address | [1181] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine Fuel Filter Differential Pressure |

| | |
|---------------------|---|
| Variable | MDEC module is alive |
| Address | [1200] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | MTU MDEC module is alive (NMT messages seen on dedicated CAN bus) |

| | |
|---------------------|---|
| Variable | MDEC module communication error |
| Address | [1201] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | MTU MDEC module communication error (No NMT message on dedicated CAN bus) |

MODBUS TABLE

| | |
|---------------------|-------------------------------------|
| Variable | Engine speed |
| Address | [1202] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine speed - From MTU MDEC module |

| | |
|---------------------|-----------------------------------|
| Variable | P-Lube Oil |
| Address | [1203] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | P-Lube Oil - From MTU MDEC module |

| | |
|---------------------|-------------------------------|
| Variable | P-Fuel |
| Address | [1204] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | P-Fuel - From MTU MDEC module |

| | |
|---------------------|-------------------------------------|
| Variable | P-Charge Air |
| Address | [1205] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | P-Charge Air - From MTU MDEC module |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | P-Fuel (Common Rail) |
| Address | [1206] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | P-Fuel (Common Rail) - From MTU MDEC module |

| | |
|---------------------|----------------------------------|
| Variable | T-Coolant |
| Address | [1207] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | T-Coolant - From MTU MDEC module |

| | |
|---------------------|-------------------------------------|
| Variable | T-Charge Air |
| Address | [1208] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | T-Charge Air - From MTU MDEC module |

| | |
|---------------------|--|
| Variable | T-Coolant Intercooler |
| Address | [1209] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | T-Coolant Intercooler - From MTU MDEC module |

MODBUS TABLE

| | |
|---------------------|-----------------------------------|
| Variable | T-Lube Oil |
| Address | [1210] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | T-Lube Oil - From MTU MDEC module |

| | |
|---------------------|-------------------------------|
| Variable | T-Fuel |
| Address | [1211] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | T-Fuel - From MTU MDEC module |

| | |
|---------------------|---|
| Variable | Actual Failure Codes |
| Address | [1212] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Actual Failure Codes - From MTU MDEC module |

| | |
|---------------------|--|
| Variable | Combined Alarm Yellow |
| Address | [1213] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Combined Alarm Yellow - From MTU MDEC module |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Combined Alarm Red |
| Address | [1214] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Combined Alarm Red - From MTU MDEC module |

INPUTS/OUTPUTS

| | |
|---------------------|-------------------------|
| Variable | Analog 1 (Customisable) |
| Address | [150] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Analog 1 measure |

| | |
|---------------------|-------------------------|
| Variable | Analog 2 (Customisable) |
| Address | [151] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Analog 2 measure |

| | |
|---------------------|-------------------------|
| Variable | Analog 3 (Customisable) |
| Address | [152] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Analog 3 measure |

MODBUS TABLE

| | |
|---------------------|--------------------------|
| Variable | Battery voltage |
| Address | [204] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 500 |
| Description | Battery voltage measure |

| | |
|---------------------|--|
| Variable | Input 1 (Customisable) |
| Address | [250] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | <p>Digital input n°1 of the product.</p> <p>Select a normally open polarity if the input is connected to 0V when the input should be considered active.</p> <p>Select a normally closed polarity if the input is connected to 0V when the input must be considered inactive.</p> <p>The validity indicates when the digital input should be taken into account.</p> <p>The T ON delay allows you to add a delay between the moment when the digital input is physically activated and the moment when the product considers it active for the automated system.</p> <p>The T OFF time delay allows you to add a delay between the moment when the digital input is physically disabled and the moment when the product considers it inactive for the automated system.</p> |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Input 2 (Customisable) |
| Address | [251] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | <p>Digital input n°2 of the product.</p> <p>Select a normally open polarity if the input is connected to 0V when the input should be considered active.</p> <p>Select a normally closed polarity if the input is connected to 0V when the input must be considered inactive.</p> <p>The validity indicates when the digital input should be taken into account.</p> <p>The T ON delay allows you to add a delay between the moment when the digital input is physically activated and the moment when the product considers it active for the automated system.</p> <p>The T OFF time delay allows you to add a delay between the moment when the digital input is physically disabled and the moment when the product considers it inactive for the automated system.</p> |

| | |
|---------------------|--|
| Variable | Input 3 (Customisable) |
| Address | [252] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | <p>Digital input n°3 of the product.</p> <p>Select a normally open polarity if the input is connected to 0V when the input should be considered active.</p> <p>Select a normally closed polarity if the input is connected to 0V when the input must be considered inactive.</p> <p>The validity indicates when the digital input should be taken into account.</p> <p>The T ON delay allows you to add a delay between the moment when the digital input is physically activated and the moment when the product considers it active for the automated system.</p> <p>The T OFF time delay allows you to add a delay between the moment when the digital input is physically disabled and the moment when the product considers it inactive for the automated system.</p> |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Input 4 (Customisable) |
| Address | [253] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | <p>Digital input n°4 of the product.</p> <p>Select a normally open polarity if the input is connected to 0V when the input should be considered active.</p> <p>Select a normally closed polarity if the input is connected to 0V when the input must be considered inactive.</p> <p>The validity indicates when the digital input should be taken into account.</p> <p>The T ON delay allows you to add a delay between the moment when the digital input is physically activated and the moment when the product considers it active for the automated system.</p> <p>The T OFF time delay allows you to add a delay between the moment when the digital input is physically disabled and the moment when the product considers it inactive for the automated system.</p> |

| | |
|---------------------|--|
| Variable | Input 5 (Customisable) |
| Address | [254] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | <p>Digital input n°5 of the product.</p> <p>Select a normally open polarity if the input is connected to 0V when the input should be considered active.</p> <p>Select a normally closed polarity if the input is connected to 0V when the input must be considered inactive.</p> <p>The validity indicates when the digital input should be taken into account.</p> <p>The T ON delay allows you to add a delay between the moment when the digital input is physically activated and the moment when the product considers it active for the automated system.</p> <p>The T OFF time delay allows you to add a delay between the moment when the digital input is physically disabled and the moment when the product considers it inactive for the automated system.</p> |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Input 6 (Customisable) |
| Address | [255] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | <p>Digital input n°6 of the product.</p> <p>Select a normally open polarity if the input is connected to 0V when the input should be considered active.</p> <p>Select a normally closed polarity if the input is connected to 0V when the input must be considered inactive.</p> <p>The validity indicates when the digital input should be taken into account.</p> <p>The T ON delay allows you to add a delay between the moment when the digital input is physically activated and the moment when the product considers it active for the automated system.</p> <p>The T OFF time delay allows you to add a delay between the moment when the digital input is physically disabled and the moment when the product considers it inactive for the automated system.</p> |

| | |
|---------------------|--|
| Variable | Input 7 (Customisable) |
| Address | [256] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | <p>Digital input n°7 of the product.</p> <p>Select a normally open polarity if the input is connected to 0V when the input should be considered active.</p> <p>Select a normally closed polarity if the input is connected to 0V when the input must be considered inactive.</p> <p>The validity indicates when the digital input should be taken into account.</p> <p>The T ON delay allows you to add a delay between the moment when the digital input is physically activated and the moment when the product considers it active for the automated system.</p> <p>The T OFF time delay allows you to add a delay between the moment when the digital input is physically disabled and the moment when the product considers it inactive for the automated system.</p> |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Input 8 (Customisable) |
| Address | [257] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | <p>Digital input n°8 of the product.</p> <p>Select a normally open polarity if the input is connected to 0V when the input should be considered active.</p> <p>Select a normally closed polarity if the input is connected to 0V when the input must be considered inactive.</p> <p>The validity indicates when the digital input should be taken into account.</p> <p>The T ON delay allows you to add a delay between the moment when the digital input is physically activated and the moment when the product considers it active for the automated system.</p> <p>The T OFF time delay allows you to add a delay between the moment when the digital input is physically disabled and the moment when the product considers it inactive for the automated system.</p> |

| | |
|---------------------|--|
| Variable | Input 9 (Customisable) |
| Address | [258] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | <p>Digital input n°9 of the product.</p> <p>Select a normally open polarity if the input is connected to 0V when the input should be considered active.</p> <p>Select a normally closed polarity if the input is connected to 0V when the input must be considered inactive.</p> <p>The validity indicates when the digital input should be taken into account.</p> <p>The T ON delay allows you to add a delay between the moment when the digital input is physically activated and the moment when the product considers it active for the automated system.</p> <p>The T OFF time delay allows you to add a delay between the moment when the digital input is physically disabled and the moment when the product considers it inactive for the automated system.</p> |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Analog 1 (Customisable) |
| Address | [259] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Digital input 10 (Analog1 set as Digital input) |

| | |
|---------------------|---|
| Variable | Analog 2 (Customisable) |
| Address | [260] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Digital input 11 (Analog2 set as Digital input) |

| | |
|---------------------|---|
| Variable | Analog 3 (Customisable) |
| Address | [261] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Digital input 12 (Analog3 set as Digital input) |

| | |
|---------------------|--|
| Variable | Output 1 (Customisable) |
| Address | [4350] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Real time displayed status of Digital Output 1 |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Output 2 (Customisable) |
| Address | [4351] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Real time displayed status of Digital Output 2 |

| | |
|---------------------|--|
| Variable | Output 3 (Customisable) |
| Address | [4352] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Real time displayed status of Digital Output 3 |

| | |
|---------------------|--|
| Variable | Output 4 (Customisable) |
| Address | [4353] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Real time displayed status of Digital Output 4 |

| | |
|---------------------|--|
| Variable | Output 5 (Customisable) |
| Address | [4354] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Real time displayed status of Digital Output 5 |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Output 6 (Customisable) |
| Address | [4355] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Real time displayed status of Digital Output 6 |

| | |
|---------------------|--|
| Variable | Relay 1 (Customisable) |
| Address | [4356] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Real time displayed status of Relay Output 1 |

| | |
|---------------------|--|
| Variable | Relay 2 (Customisable) |
| Address | [4357] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Real time displayed status of Relay Output 2 |

| | |
|---------------------|-------------------------------------|
| Variable | Speed output |
| Address | [4404] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -10000 |
| Max value | 10000 |
| Description | Sommatation of all speed deviations |

MODBUS TABLE

| | |
|---------------------|-------------------------------------|
| Variable | Voltage output |
| Address | [4408] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -10000 |
| Max value | 10000 |
| Description | Sommation of all voltage deviations |

I/O CAN BUS EXPANSION

| | |
|---------------------|-----------------------------|
| Variable | CANopen DI 1 (Customisable) |
| Address | [800] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 1 |

| | |
|---------------------|-----------------------------|
| Variable | CANopen DI 2 (Customisable) |
| Address | [801] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 2 |

| | |
|---------------------|-----------------------------|
| Variable | CANopen DI 3 (Customisable) |
| Address | [802] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 3 |

MODBUS TABLE

| | |
|---------------------|-----------------------------|
| Variable | CANopen DI 4 (Customisable) |
| Address | [803] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 4 |

| | |
|---------------------|-----------------------------|
| Variable | CANopen DI 5 (Customisable) |
| Address | [804] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 5 |

| | |
|---------------------|-----------------------------|
| Variable | CANopen DI 6 (Customisable) |
| Address | [805] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 6 |

| | |
|---------------------|-----------------------------|
| Variable | CANopen DI 7 (Customisable) |
| Address | [806] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 7 |

MODBUS TABLE

| | |
|---------------------|-----------------------------|
| Variable | CANopen DI 8 (Customisable) |
| Address | [807] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 8 |

| | |
|---------------------|-----------------------------|
| Variable | CANopen DI 9 (Customisable) |
| Address | [808] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 9 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 10 (Customisable) |
| Address | [809] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 10 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 11 (Customisable) |
| Address | [810] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 11 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 12 (Customisable) |
| Address | [811] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 12 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 13 (Customisable) |
| Address | [812] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 13 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 14 (Customisable) |
| Address | [813] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 14 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 15 (Customisable) |
| Address | [814] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 15 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 16 (Customisable) |
| Address | [815] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 16 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 17 (Customisable) |
| Address | [816] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 17 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 18 (Customisable) |
| Address | [817] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 18 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 19 (Customisable) |
| Address | [818] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 19 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 20 (Customisable) |
| Address | [819] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 20 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 21 (Customisable) |
| Address | [820] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 21 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 22 (Customisable) |
| Address | [821] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 22 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 23 (Customisable) |
| Address | [822] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 23 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 24 (Customisable) |
| Address | [823] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 24 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 25 (Customisable) |
| Address | [824] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 25 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 26 (Customisable) |
| Address | [825] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 26 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 27 (Customisable) |
| Address | [826] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 27 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 28 (Customisable) |
| Address | [827] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 28 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 29 (Customisable) |
| Address | [828] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 29 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 30 (Customisable) |
| Address | [829] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 30 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 31 (Customisable) |
| Address | [830] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 31 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 32 (Customisable) |
| Address | [831] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 32 |

| | |
|---------------------|-----------------------------|
| Variable | CANopen AI 1 (Customisable) |
| Address | [1050] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | CANopen analog input 1 |

| | |
|---------------------|-----------------------------|
| Variable | CANopen AI 2 (Customisable) |
| Address | [1051] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | CANopen analog input 2 |

| | |
|---------------------|-----------------------------|
| Variable | CANopen AI 3 (Customisable) |
| Address | [1052] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | CANopen analog input 3 |

MODBUS TABLE

| | |
|---------------------|-----------------------------|
| Variable | CANopen AI 4 (Customisable) |
| Address | [1053] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | CANopen analog input 4 |

| | |
|---------------------|-----------------------------|
| Variable | CANopen AI 5 (Customisable) |
| Address | [1054] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | CANopen analog input 5 |

| | |
|---------------------|-----------------------------|
| Variable | CANopen AI 6 (Customisable) |
| Address | [1055] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | CANopen analog input 6 |

| | |
|---------------------|-----------------------------|
| Variable | CANopen AI 7 (Customisable) |
| Address | [1056] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | CANopen analog input 7 |

MODBUS TABLE

| | |
|---------------------|-----------------------------|
| Variable | CANopen AI 8 (Customisable) |
| Address | [1057] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | CANopen analog input 8 |

| | |
|---------------------|-----------------------------|
| Variable | CANopen AI 9 (Customisable) |
| Address | [1058] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | CANopen analog input 9 |

| | |
|---------------------|------------------------------|
| Variable | CANopen AI 10 (Customisable) |
| Address | [1059] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | CANopen analog input 10 |

| | |
|---------------------|------------------------------|
| Variable | CANopen AI 11 (Customisable) |
| Address | [1060] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | CANopen analog input 11 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | CANopen AI 12 (Customisable) |
| Address | [1061] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | CANopen analog input 12 |

| | |
|---------------------|------------------------------|
| Variable | CANopen AI 13 (Customisable) |
| Address | [1062] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | CANopen analog input 13 |

| | |
|---------------------|------------------------------|
| Variable | CANopen AI 14 (Customisable) |
| Address | [1063] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | CANopen analog input 14 |

| | |
|---------------------|------------------------------|
| Variable | CANopen AI 15 (Customisable) |
| Address | [1064] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | CANopen analog input 15 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | CANopen AI 16 (Customisable) |
| Address | [1065] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | CANopen analog input 16 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 33 (Customisable) |
| Address | [1250] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 33 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 34 (Customisable) |
| Address | [1251] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 34 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 35 (Customisable) |
| Address | [1252] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 35 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 36 (Customisable) |
| Address | [1253] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 36 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 37 (Customisable) |
| Address | [1254] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 37 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 38 (Customisable) |
| Address | [1255] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 38 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 39 (Customisable) |
| Address | [1256] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 39 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 40 (Customisable) |
| Address | [1257] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 40 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 41 (Customisable) |
| Address | [1258] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 41 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 42 (Customisable) |
| Address | [1259] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 42 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 43 (Customisable) |
| Address | [1260] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 43 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 44 (Customisable) |
| Address | [1261] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 44 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 45 (Customisable) |
| Address | [1262] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 45 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 46 (Customisable) |
| Address | [1263] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 46 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 47 (Customisable) |
| Address | [1264] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 47 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 48 (Customisable) |
| Address | [1265] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 48 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 49 (Customisable) |
| Address | [1266] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 49 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 50 (Customisable) |
| Address | [1267] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 50 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 51 (Customisable) |
| Address | [1268] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 51 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 52 (Customisable) |
| Address | [1269] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 52 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 53 (Customisable) |
| Address | [1270] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 53 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 54 (Customisable) |
| Address | [1271] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 54 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 55 (Customisable) |
| Address | [1272] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 55 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 56 (Customisable) |
| Address | [1273] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 56 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 57 (Customisable) |
| Address | [1274] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 57 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 58 (Customisable) |
| Address | [1275] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 58 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 59 (Customisable) |
| Address | [1276] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 59 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 60 (Customisable) |
| Address | [1277] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 60 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 61 (Customisable) |
| Address | [1278] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 61 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 62 (Customisable) |
| Address | [1279] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 62 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 63 (Customisable) |
| Address | [1280] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 63 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | CANopen DI 64 (Customisable) |
| Address | [1281] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital Input 64 |

| | |
|---------------------|-----------------------------|
| Variable | CANopen DO 1 (Customisable) |
| Address | [4751] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 1 |

| | |
|---------------------|-----------------------------|
| Variable | CANopen DO 2 (Customisable) |
| Address | [4752] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 2 |

| | |
|---------------------|-----------------------------|
| Variable | CANopen DO 3 (Customisable) |
| Address | [4753] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 3 |

MODBUS TABLE

| | |
|---------------------|-----------------------------|
| Variable | CANopen DO 4 (Customisable) |
| Address | [4754] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 4 |

| | |
|---------------------|-----------------------------|
| Variable | CANopen DO 5 (Customisable) |
| Address | [4755] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 5 |

| | |
|---------------------|-----------------------------|
| Variable | CANopen DO 6 (Customisable) |
| Address | [4756] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 6 |

| | |
|---------------------|-----------------------------|
| Variable | CANopen DO 7 (Customisable) |
| Address | [4757] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 7 |

MODBUS TABLE

| | |
|---------------------|-----------------------------|
| Variable | CANopen DO 8 (Customisable) |
| Address | [4758] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 8 |

| | |
|---------------------|-----------------------------|
| Variable | CANopen DO 9 (Customisable) |
| Address | [4759] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 9 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 10 (Customisable) |
| Address | [4760] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 10 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 11 (Customisable) |
| Address | [4761] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 11 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 12 (Customisable) |
| Address | [4762] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 12 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 13 (Customisable) |
| Address | [4763] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 13 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 14 (Customisable) |
| Address | [4764] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 14 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 15 (Customisable) |
| Address | [4765] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 15 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 16 (Customisable) |
| Address | [4766] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 16 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 17 (Customisable) |
| Address | [4767] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 17 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 18 (Customisable) |
| Address | [4768] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 18 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 19 (Customisable) |
| Address | [4769] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 19 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 20 (Customisable) |
| Address | [4770] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 20 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 21 (Customisable) |
| Address | [4771] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 21 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 22 (Customisable) |
| Address | [4772] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 22 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 23 (Customisable) |
| Address | [4773] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 23 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 24 (Customisable) |
| Address | [4774] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 24 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 25 (Customisable) |
| Address | [4775] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 25 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 26 (Customisable) |
| Address | [4776] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 26 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 27 (Customisable) |
| Address | [4777] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 27 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 28 (Customisable) |
| Address | [4778] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 28 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 29 (Customisable) |
| Address | [4779] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 29 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 30 (Customisable) |
| Address | [4780] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 30 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 31 (Customisable) |
| Address | [4781] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 31 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 32 (Customisable) |
| Address | [4782] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 32 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 33 (Customisable) |
| Address | [5100] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 33 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 34 (Customisable) |
| Address | [5101] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 34 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 35 (Customisable) |
| Address | [5102] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 35 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 36 (Customisable) |
| Address | [5103] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 36 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 37 (Customisable) |
| Address | [5104] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 37 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 38 (Customisable) |
| Address | [5105] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 38 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 39 (Customisable) |
| Address | [5106] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 39 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 40 (Customisable) |
| Address | [5107] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 40 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 41 (Customisable) |
| Address | [5108] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 41 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 42 (Customisable) |
| Address | [5109] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 42 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 43 (Customisable) |
| Address | [5110] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 43 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 44 (Customisable) |
| Address | [5111] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 44 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 45 (Customisable) |
| Address | [5112] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 45 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 46 (Customisable) |
| Address | [5113] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 46 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 47 (Customisable) |
| Address | [5114] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 47 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 48 (Customisable) |
| Address | [5115] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 48 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 49 (Customisable) |
| Address | [5116] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 49 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 50 (Customisable) |
| Address | [5117] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 50 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 51 (Customisable) |
| Address | [5118] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 51 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 52 (Customisable) |
| Address | [5119] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 52 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 53 (Customisable) |
| Address | [5120] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 53 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 54 (Customisable) |
| Address | [5121] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 54 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 55 (Customisable) |
| Address | [5122] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 55 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 56 (Customisable) |
| Address | [5123] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 56 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 57 (Customisable) |
| Address | [5124] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 57 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 58 (Customisable) |
| Address | [5125] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 58 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 59 (Customisable) |
| Address | [5126] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 59 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 60 (Customisable) |
| Address | [5127] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 60 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 61 (Customisable) |
| Address | [5128] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 61 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 62 (Customisable) |
| Address | [5129] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 62 |

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 63 (Customisable) |
| Address | [5130] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 63 |

MODBUS TABLE

| | |
|---------------------|------------------------------|
| Variable | CANopen DO 64 (Customisable) |
| Address | [5131] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | CANopen digital output 64 |

TIMERS/METERS

| | |
|---------------------|-------------------------------------|
| Variable | Number of generator starts |
| Address | [78] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Number of starts (only information) |

| | |
|---------------------|--|
| Variable | Meter 1 (h) (Customisable) |
| Address | [850] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | This parameter is used to set the first maintenance counter in generator operating hours. The module will count down the value of this counter when the generator is running. An alarm will be activated on the product when the counter reaches the value 0. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Meter 2 (h) (Customisable) |
| Address | [851] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | This parameter allows you to set the second maintenance counter in generator running hours. The module will count down the value of this counter when the generator is running. An alarm will be activated on the product when the counter reaches the value 0. |

| | |
|---------------------|---|
| Variable | Meter 3 (h) (Customisable) |
| Address | [852] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | This parameter allows you to set the third maintenance counter in generator running hours. The module will count down the value of this counter when the generator is running. An alarm will be activated on the product when the counter reaches the value 0. |

| | |
|---------------------|--|
| Variable | Meter 4 (h) (Customisable) |
| Address | [853] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | This parameter allows you to set the fourth maintenance counter in generator running hours. The module will count down the value of this counter when the generator is running. An alarm will be activated on the product when the counter reaches the value 0. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Meter 5 (h) (Customisable) |
| Address | [854] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | This parameter allows you to set the fifth maintenance counter in generator running hours. The module will count down the value of this counter when the generator is running. An alarm will be activated on the product when the counter reaches the value 0. |

| | |
|---------------------|--|
| Variable | Meter 1 (d) (Customisable) |
| Address | [855] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | This parameter allows you to set the first maintenance counter in days. The module will count down the value of this counter every day, regardless of whether the generator is running or not. An alarm will be activated on the product when the counter reaches the value 0. |

| | |
|---------------------|---|
| Variable | Meter 2 (d) (Customisable) |
| Address | [856] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | This parameter allows you to set the second maintenance counter in days. The module will count down the value of this counter every day, regardless of whether the generator is running or not. An alarm will be activated on the product when the counter reaches the value 0. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Meter 3 (d) (Customisable) |
| Address | [857] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | <p>This parameter allows you to set the third maintenance counter in days. The module will count down the value of this counter every day, regardless of whether the generator is running or not. An alarm will be activated on the product when the counter reaches the value 0.</p> |

| | |
|---------------------|--|
| Variable | Meter 4 (d) (Customisable) |
| Address | [858] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | <p>This parameter allows you to set the fourth maintenance counter in days. The module will count down the value of this counter every day, regardless of whether the generator is running or not. An alarm will be activated on the product when the counter reaches the value 0.</p> |

| | |
|---------------------|---|
| Variable | Meter 5 (d) (Customisable) |
| Address | [859] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | <p>This parameter allows you to set the fifth maintenance counter in days. The module will count down the value of this counter every day, regardless of whether the generator is running or not. An alarm will be activated on the product when the counter reaches the value 0.</p> |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Pre-start timer (Glow plugs & Auxiliaries) |
| Address | [4455] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Pre-start timer (Glow plugs & Auxiliaries) |

| | |
|---------------------|--------------------------|
| Variable | Starter activation timer |
| Address | [4457] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Starter activation timer |

| | |
|---------------------|--------------------------|
| Variable | Delay between 2 starts |
| Address | [4458] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Delay between 2 starts |

| | |
|---------------------|--------------------------|
| Variable | Engine preheat timer |
| Address | [4464] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine preheat timer |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Speed stabilization timer |
| Address | [4465] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Time during which the speed stabilizes. |

| | |
|---------------------|---|
| Variable | Voltage stabilization timer |
| Address | [4466] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Time during which the voltage stabilizes. |

| | |
|---------------------|--------------------------|
| Variable | Cool down timer |
| Address | [4467] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Cool down timer |

| | |
|---------------------|--------------------------|
| Variable | Engine stop timer |
| Address | [4469] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Engine stop timer |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Fail to start engine timer |
| Address | [4476] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Fail to start engine timer (if external automatic start) |

POWER PLANT

| | |
|---------------------|--|
| Variable | Total generator kW on my segment |
| Address | [25] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32500 |
| Max value | 32500 |
| Description | Power produced by all generators on the current busbar segment |

| | |
|---------------------|---|
| Variable | Total generator kVAR on my segment |
| Address | [26] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32500 |
| Max value | 32500 |
| Description | Reactive power produced by all generators on the current busbar segment |

| | |
|---------------------|---|
| Variable | Global generators $\cos(\varphi)$ on my segment |
| Address | [27] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32500 |
| Max value | 32500 |
| Description | Generators power factor on the current busbar segment |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Total mains kW on my segment |
| Address | [28] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32500 |
| Max value | 32500 |
| Description | Power produced by all mains on the current busbar segment |

| | |
|---------------------|--|
| Variable | Total mains kVAR on my segment |
| Address | [29] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32500 |
| Max value | 32500 |
| Description | Reactive power produced by all mains on the current busbar segment |

| | |
|---------------------|--|
| Variable | Global mains $\cos(\varphi)$ on my segment |
| Address | [30] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32500 |
| Max value | 32500 |
| Description | Mains power factor on the current busbar segment |

| | |
|---------------------|--|
| Variable | Total renewable energies kW on my segment |
| Address | [31] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32500 |
| Max value | 32500 |
| Description | Power produced by all renewable energies on the current busbar segment |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Total renewable energies kVAR on my segment |
| Address | [32] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32500 |
| Max value | 32500 |
| Description | Reactive power produced by all renewable energies on the current busbar segment |

| | |
|---------------------|---|
| Variable | Global renewable energies $\cos(\varphi)$ on my segment |
| Address | [33] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32500 |
| Max value | 32500 |
| Description | Renewable energies power factor on the current busbar segment |

| | |
|---------------------|---|
| Variable | Total battery inverters kW on my segment |
| Address | [34] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32500 |
| Max value | 32500 |
| Description | Power produced by all battery inverters on the current busbar segment |

| | |
|---------------------|--|
| Variable | Total battery inverters kVAR on my segment |
| Address | [35] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32500 |
| Max value | 32500 |
| Description | Reactive power produced by all battery inverters on the current busbar segment |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Global battery inverters $\cos(\varphi)$ on my segment |
| Address | [36] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32500 |
| Max value | 32500 |
| Description | Battery inverters power factor on the current busbar segment |

| | |
|---------------------|--|
| Variable | Load kW on my segment |
| Address | [37] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32500 |
| Max value | 32500 |
| Description | Power consumed on the current busbar segment |

| | |
|---------------------|---|
| Variable | Load kVAR on my segment |
| Address | [38] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32500 |
| Max value | 32500 |
| Description | Reactive power consumed on the current busbar segment |

| | |
|---------------------|---|
| Variable | Load power factor on my segment |
| Address | [39] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32500 |
| Max value | 32500 |
| Description | Load power factor on the current busbar segment |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Reserve power kW |
| Address | [373] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read |
| Min value | -32768 |
| Max value | 32767 |
| Description | Available power in kW for the current product. Reserve power = Nominal - active power |

| | |
|---------------------|---|
| Variable | Reserve power % |
| Address | [375] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1000 |
| Description | Available power in % for the current product. Reserve power = $100 * (\text{Nominal} - \text{active power}) / \text{Nominal}$ |

| | |
|---------------------|---------------------------------|
| Variable | Number of generator on bus |
| Address | [568] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 32 |
| Description | Count of GE with breaker closed |

| | |
|---------------------|--------------------------|
| Variable | Actual segment |
| Address | [4030] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 1 |
| Max value | 33 |
| Description | Actual segment |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Mains presence on the common bus bar |
| Address | [4032] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Status report: There is currently a mains closed on the bus bar |

GENERATOR PROTECTIONS

| | |
|---------------------|---|
| Variable | Fail to synchronize |
| Address | [4051] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | The automated system does not manage to synchronize the voltages on both sides of the circuit breaker (Check that the speed regulation and the AVR are controlled in the right range and adjust the PID settings) |

BUS PROTECTIONS

| | |
|---------------------|---|
| Variable | Bus measure error |
| Address | [4315] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Fault report: Bus measure error, an other generator is on the bus bar but the module does not read bus voltage. |

COMMUNICATION

| | |
|---------------------|--|
| Variable | Controller communication fault |
| Address | [600] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Communication cannot be established. Check the wiring between the controllers, the product number and the number of controllers declared for each part number. |

| | |
|---------------------|---|
| Variable | Missing GENSYS COMPACT PRIME |
| Address | [605] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Missing at least one GENSYS COMPACT PRIME module on the CAN bus |

| | |
|---------------------|---|
| Variable | Missing MASTER COMPACT or BTB COMPACT |
| Address | [608] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Absence of at least one MASTER COMPACT or BTB COMPACT module on the CAN bus |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Missing HYBRID COMPACT |
| Address | [612] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Missing at least one HYBRID module on the CAN bus |

| | |
|---------------------|--|
| Variable | Missing BAT COMPACT |
| Address | [613] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Missing at least one BAT COMPACT module on the CAN Bus |

| | |
|---------------------|--|
| Variable | J1939 Fault |
| Address | [650] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Communication with ECU cannot be established. Check ECU wiring and power supply. |

| | |
|---------------------|--|
| Variable | Forced droop from inverter communication loss |
| Address | [903] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | In a hybrid setting, if the controller managing the inverter loses communication with it, it forces other controllers in droop mode via CAN bus. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | CANopen fault |
| Address | [4750] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Communication with I/O extension cannot be established. Check the wiring and power supply of the CANopen extension module |

SYSTEM

| | |
|---------------------|--------------------------|
| Variable | Day of the week |
| Address | [10] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 6 |
| Description | Day of the week (RTC) |

| | |
|---------------------|--------------------------|
| Variable | Day |
| Address | [11] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 1 |
| Max value | 31 |
| Description | Day (RTC) |

MODBUS TABLE

| | |
|---------------------|--------------------------|
| Variable | Month |
| Address | [12] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 1 |
| Max value | 12 |
| Description | Month (RTC) |

| | |
|---------------------|--------------------------|
| Variable | Year |
| Address | [13] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 99 |
| Description | Year (RTC) |

| | |
|---------------------|--------------------------|
| Variable | Hours |
| Address | [14] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 23 |
| Description | Hours (RTC) |

| | |
|---------------------|--------------------------|
| Variable | Minutes |
| Address | [15] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 59 |
| Description | Minutes (RTC) |

MODBUS TABLE

| | |
|---------------------|--------------------------|
| Variable | Seconds |
| Address | [16] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 59 |
| Description | Seconds (RTC) |

| | |
|---------------------|--------------------------|
| Variable | 100ms |
| Address | [17] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 9 |
| Description | 100ms timer (Internal) |

| | |
|---------------------|---|
| Variable | Load uC |
| Address | [18] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Microcontroller load (i.e nb run in main loop during 1s) |

| | |
|---------------------|--|
| Variable | Overload uC |
| Address | [19] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Alarm activated when a microcontroller overload occurs |

MODBUS TABLE

| | |
|---------------------|----------------------------------|
| Variable | Power down nb |
| Address | [353] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 32 |
| Description | Unload priority generator number |

| | |
|---------------------|--------------------------------------|
| Variable | Power up nb |
| Address | [354] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 32 |
| Description | Load/start priority generator number |

| | |
|---------------------|--|
| Variable | Generator state |
| Address | [4000] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 255 |
| Description | Active power regulation mode (Power state machine) |

| | |
|---------------------|--|
| Variable | Engine state |
| Address | [4001] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 255 |
| Description | Active engine mode (Engine state machine) |

MODBUS TABLE

| | |
|---------------------|--------------------------|
| Variable | Internal timer test |
| Address | [4025] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Timer test variable |

| | |
|---------------------|--------------------------|
| Variable | Easyflex warning |
| Address | [4213] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Overflow in equation |

| | |
|---------------------|--|
| Variable | Easyflex error code |
| Address | [4214] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 65535 |
| Description | Easyflex equation error (100*Line number + error code) |

STATUSES

| | |
|---------------------|--|
| Variable | Phase sequence match |
| Address | [306] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Identical phase order on both sides of the circuit breaker (OK = 1 or NOK = 0) |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Voltage match |
| Address | [307] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Identical voltage amplitudes on both sides of the circuit breaker (OK = 1 or NOK = 0) |

| | |
|---------------------|--|
| Variable | Frequency match |
| Address | [308] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Identical frequencies on both sides of the circuit breaker (OK = 1 or NOK = 0) |

| | |
|---------------------|---|
| Variable | Phase match |
| Address | [309] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | The phase difference between the voltages on either side of the circuit breaker is zero (OK = 1 or NOK = 0) |

| | |
|---------------------|--|
| Variable | Synch check relay OK |
| Address | [310] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Active if the sources are synchronized on both sides of circuit breaker (OK = 1 or Not OK = 0). Do not confuse with the closing order. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Engine start |
| Address | [4006] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Active if the automated system wants to start the engine. Inactive if the automated system wants to stop the engine. |

| | |
|---------------------|---|
| Variable | Production request |
| Address | [4007] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Active if the automated system wants to produce power with the generator(s). Inactive if the automated system does not want to produce power with the generator(s). |

| | |
|---------------------|--|
| Variable | Mode : 0=Manu / 1=Test / 2=Auto |
| Address | [4008] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 2 |
| Description | Mode auto/manu/test (0=MANU/1=TEST/2=AUTO) |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Generator electrical fault summary |
| Address | [4656] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Fault report: Active if at least one protection configured as an electrical fault is active. |

| | |
|---------------------|---|
| Variable | Alarms summary |
| Address | [4658] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Fault report: Active if at least one protection configured as an alarm is active. |

| | |
|---------------------|--|
| Variable | Soft shut down summary |
| Address | [4659] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Fault report:Active if at least one protection configured as Soft shut down is active. |

| | |
|---------------------|---|
| Variable | Hard shut down summary |
| Address | [4660] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Fault report: Active if at least one protection configured as Hard shut down is active. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Soft shut down + Help |
| Address | [4661] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Fault report: Another product is called for help, this output is associated with input Remote Soft shutdown + Help. |

| | |
|---------------------|---|
| Variable | Generator electrical faults + Help |
| Address | [4662] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Fault report: Another product is called for help, this output is associated with input Remote Fault + Help. |

| | |
|---------------------|--|
| Variable | Default LED |
| Address | [4664] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Status report: Active if the fault LED on the front of the product is lit (active on fault, reset on acknowledge and reset command). |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Alarm LED |
| Address | [4665] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Status report: Active if the alarm LED on the front of the product is lit (active on alarm, reset on acknowledge and reset command). |

| | |
|---------------------|---|
| Variable | Auto mode LED |
| Address | [4666] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Status report: Active if the Auto mode LED on the front of the product is lit |

| | |
|---------------------|---|
| Variable | Test mode LED |
| Address | [4667] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Status report: Active if the Test mode LED on the front of the product is lit |

| | |
|---------------------|---|
| Variable | Manu mode LED |
| Address | [4668] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Status report: Active if the Manu mode LED on the front of the product is lit |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Generator LED |
| Address | [4669] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Status report: Active if the Generator LED on the front of the product is lit (active when speed is detected) |

| | |
|---------------------|--|
| Variable | Protection validation |
| Address | [4681] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Status report: Active when all protections are activated after starting sequence (Under frequency, under voltage, oil pressure, temperature, etc...) |

| | |
|---------------------|---|
| Variable | Override ON (Fault is currently inhibited) |
| Address | [4708] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Status report: Override mode is ON, at least one protection is currently inhibited by the override mode |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Generator breaker LED |
| Address | [4734] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Status report: Active if the Generator breaker LED on the front of the product is lit |

| | |
|---------------------|---|
| Variable | Bus LED |
| Address | [4736] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Status report: Active if the Bus LED on the front of the product is lit |

HYSTERESIS

| | |
|---------------------|--|
| Variable | Hysteresis 1 output |
| Address | [4710] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Activation of analog Hysteresis function n°1, configuration of function is in Configuration/programming/Hysteresis |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Hysteresis 2 output |
| Address | [4711] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Activation of analog Hysteresis function n°2, configuration of function is in Configuration/programming/Hysteresis |

| | |
|---------------------|--|
| Variable | Hysteresis 3 output |
| Address | [4712] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Activation of analog Hysteresis function n°3, configuration of function is in Configuration/programming/Hysteresis |

| | |
|---------------------|---|
| Variable | Hysteresis output activation on DI1 |
| Address | [4713] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Output activation for 'Hysteresis on digital input' n°1. Function is managed by configurable low/high digital inputs in Digital Input menu. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Hysteresis output activation on DI2 |
| Address | [4714] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Output activation for 'Hysteresis on digital input' n°2. Function is managed by configurable low/high digital inputs in Digital Input menu. |

| | |
|---------------------|---|
| Variable | Hysteresis output activation on DI3 |
| Address | [4715] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Output activation for 'Hysteresis on digital input' n°3. Function is managed by configurable low/high digital inputs in Digital Input menu. |

| | |
|---------------------|---|
| Variable | Hysteresis output activation on DI4 |
| Address | [4716] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Output activation for 'Hysteresis on digital input' n°4. Function is managed by configurable low/high digital inputs in Digital Input menu. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Hysteresis output activation on DI5 |
| Address | [4717] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Output activation for 'Hysteresis on digital input' n°5. Function is managed by configurable low/high digital inputs in Digital Input menu. |

| | |
|---------------------|---|
| Variable | Hysteresis output activation on DI6 |
| Address | [4718] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Output activation for 'Hysteresis on digital input' n°6. Function is managed by configurable low/high digital inputs in Digital Input menu. |

| | |
|---------------------|---|
| Variable | Hysteresis output activation on DI7 |
| Address | [4719] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Output activation for 'Hysteresis on digital input' n°7. Function is managed by configurable low/high digital inputs in Digital Input menu. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Hysteresis output activation on DI8 |
| Address | [4720] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read |
| Min value | 0 |
| Max value | 1 |
| Description | Output activation for 'Hysteresis on digital input' n°8. Function is managed by configurable low/high digital inputs in Digital Input menu. |

PARAMETERS

GENERATOR

| | |
|---------------------|--|
| Variable | Regulation type |
| Address | [2013] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Normal 1: Base load/Base PF 2: Forced droop Hz/V 3: Forced droop Hz only |
| Description | kW regulation used when paralleling between several gensets (0 = load sharing according to nominal power / 1 = Generator will follow a fix setpoint / 2 = Droop). Running in fixed setpoint or droop will inhibit load dependent start/stop options. |

| | |
|---------------------|---|
| Variable | PT ratio |
| Address | [2100] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | This parameter allows you to set the ratio between the voltage present on the busbar and the voltage connected to the module. Example: Busbar voltage 20.000Vac / Voltage connected to the module 100 Vac: PT ratio value = 20.000/100 = 200. This PT ratio can be calculated or is indicated on the measuring transformers. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CT ratio |
| Address | [2101] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | <p>This parameter is used to set the ratio between the current on the busbar and the current connected to the module.</p> <p>Example: Busbar current 1000A / Current connected to the module 5A: CT ratio value = $1000/5 = 200$.</p> <p>This CT ratio can be calculated or is indicated on the measuring current transformers.</p> |

| | |
|---------------------|---|
| Variable | Nominal voltage |
| Address | [2102] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | <p>This parameter is used to set the nominal voltage:</p> <ul style="list-style-type: none"> - Three-phase and two-phase: Enter a phase-to-phase voltage. - Single-phase: Enter a phase-to-neutral voltage. <p>All the protections based on the voltage as well as the control loops are calculated as a percentage of this value.</p> <p>For low voltage (400VAC, 440VAC, 480VAC, etc...) or high voltage (20.000VAC, 33.000VAC, etc...) applications, this variable must be adjusted.</p> |

| | |
|---------------------|------------------------------|
| Variable | Single phase nominal current |
| Address | [2103] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Nominal Current |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Nominal active power |
| Address | [2105] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 1 |
| Max value | 32500 |
| Description | This parameter is used to set the nominal active power (kW). All the protections based on the active power and the control loops are calculated as a percentage of this value. |

| | |
|---------------------|--|
| Variable | Nominal reactive power |
| Address | [2106] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 1 |
| Max value | 32500 |
| Description | This parameter is used to set the nominal reactive power (kVAR). All the protections based on the reactive power and the control loops are calculated as a percentage of this value. |

| | |
|---------------------|--|
| Variable | Base load Generator(s) kW setpoint |
| Address | [2107] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 32500 |
| Description | This parameter is used to set the active power setpoint of the generator/power plant when the product is configured in base load mode. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Droop (frequency) |
| Address | [2204] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 20 |
| Description | Droop (frequency). The steeper the slope, the more the frequency will drop on an increase in kW A slope that is too shallow, on the other hand, will give an imprecise distribution. |

| | |
|---------------------|---|
| Variable | Speed output inversion |
| Address | [2212] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: Yes |
| Description | <p>Activate this parameter if the frequency increases when the speed correction decreases and if the frequency decreases when the speed correction increases.</p> <p>This parameter makes it possible to operate the control without reversing the "Speed common" and "Speed output" terminals.</p> |

| | |
|---------------------|---|
| Variable | Droop (voltage) |
| Address | [2250] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 20 |
| Description | Droop (voltage). The steeper the slope, the more the voltage will drop on an increase in kVAR. A slope that is too shallow, on the other hand, will give an imprecise distribution. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Power factor setpoint (inductive) |
| Address | [2253] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | This parameter is used to set the generator/power plant $\cos(\varphi)$ set point that will be applied when paralleling to the mains. The imposed $\cos(\varphi)$ is an inductive $\cos(\varphi)$. |

| | |
|---------------------|--|
| Variable | AVR signal output inversion |
| Address | [2254] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: Yes |
| Description | Activate this parameter if the voltage increases when the voltage correction decreases and if the voltage decreases when the voltage correction increases. This parameter allows the regulation to be operated without reversing the "AVR common" and "AVR output" terminals. |

| | |
|---------------------|--|
| Variable | Generator circuit breaker control type |
| Address | [2300] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Open Contact - Close Pulse 1: Open Contact - Close Contact 2: Open MNcoil - Close Pulse 3: Open MNcoil - Close Contact 4: Open Pulse - Close Pulse 5: Open Pulse - Close Contact |
| Description | Control type of the relay for the genset circuit breaker of the genset (pulse, hold, coil...) |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Generator breaker control pulse length |
| Address | [2301] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 1 |
| Max value | 100 |
| Description | Generator circuit breaker pulse length |

| | |
|---------------------|--|
| Variable | Undervoltage coil deenergized time |
| Address | [2302] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 1 |
| Max value | 100 |
| Description | Time during which the coil is no longer energized after a request to open the circuit breaker. |

| | |
|---------------------|---|
| Variable | Undervoltage coil security timer |
| Address | [2303] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 1 |
| Max value | 100 |
| Description | Minimum safety time between the moment the coil has been reenergized and the next request to close the circuit breaker. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Voltage acceptance |
| Address | [2800] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 120 |
| Description | Maximum voltage difference (in % of the nominal value) between the voltages on either side of the circuit breaker to allow closing. |

| | |
|---------------------|---|
| Variable | Frequency acceptance |
| Address | [2801] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 20 |
| Description | Maximum frequency difference between the voltages on either side of the circuit breaker to allow closing. |

| | |
|---------------------|---|
| Variable | Phase Angle acceptance |
| Address | [2802] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 30 |
| Description | Maximum phase difference between the voltages on either side of the circuit breaker to allow closing. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Fail to synchronize timer |
| Address | [2803] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Time after which the product will activate an alarm if it remains in synchronization without ever being able to give the closing command. Activation of this alarm means that the synchronization control loops are incorrectly set. |

| | |
|---------------------|---|
| Variable | Action on fail to synchronize |
| Address | [2804] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm 4: Fault (soft shutdown) 6: Fault (soft shutdown) + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Delay before new attempt |
| Address | [2806] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Delay before another attempt for an electrical fault. When an electrical fault is detected, the module opens its breaker and waits for an amount of time specified in this variable to attempt to close it again. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Number of closing attempts |
| Address | [2807] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Number of attempts for an electrical fault. When an electrical fault is detected, the module automatically tries to close its breaker to see if the fault has disappeared. If it isn't the case the module will try again until it has reached the number set in this variable |

| | |
|---------------------|---|
| Variable | C2S dwell time |
| Address | [2809] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | Synchronization dwell time before closing breaker |

| | |
|---------------------|---|
| Variable | Phase offset |
| Address | [2812] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -180 |
| Max value | 180 |
| Description | Phase offset for synch. check relay (Ex: Dyn11) |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Start timer |
| Address | [2855] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | This parameter is used to determine the time during which the start condition must be met in order to start generator(s). |

| | |
|---------------------|---|
| Variable | Stop timer |
| Address | [2858] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | This parameter is used to determine the time during which the stop condition must be met in order to stop generator(s). |

| | |
|---------------------|--|
| Variable | Low kW active power threshold |
| Address | [2866] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1000 |
| Description | <p>This parameter allows you to define the minimum active power that the automatic system will impose on the generator.</p> <p>For example, this is the power that will be taken just after the circuit breaker is closed, before the load ramp.</p> <p>It is also the value at which the automatic system will open the circuit breaker during an unload ramp.</p> <p>This low limit protects against the risk of reverse power.</p> <p>It is recommended to set a low limit between 5 and 10% of the nominal active power.</p> |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Enable renewable energy production dependant start/stop |
| Address | [2883] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: Yes |
| Description | <p>This parameter activates the start/stop of generators according to the active power produced by renewable energies.</p> <p>As the active power generated by photovoltaic panels and wind turbines is susceptible to significant and rapid drops, it may be necessary to ensure a reserve power that is proportional to the active power produced by renewable energies.</p> <p>This function is not a substitute for start/stop of generators based on a fixed reserve power, but should be used as a complement.</p> <p>Example: If no energy is produced by renewable energies, this function will ensure a reserve of X (threshold to be defined) multiplied by 0 (current active power). This value being equal to 0, this function will ensure a reserve of 0kW in this precise case.</p> <p>It may therefore be necessary to use the standard power reserve function as a complement to ensure a reserve in the event of load impact.</p> |

| | |
|---------------------|---|
| Variable | Start : Reserve < Renewable energy current power multiplied by |
| Address | [2884] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1000 |
| Description | <p>This parameter is used to determine the proportion of active power produced by renewable energies for which a reserve power must be provided by batteries and/or generators.</p> <p>This is the start threshold. It must be slightly different from the stop threshold to ensure hysteresis.</p> <p>Ex: If the value of the parameter is 40%, and renewable energies produce 100kW at a given time t, then, a generator will start if the reserve power provided by the batteries and/or generators falls below $40\% \times 100\text{kW} = 40\text{kW}$.</p> |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Start timer |
| Address | [2885] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | This parameter is used to determine the time during which the start condition must be met in order to start generator(s). |

| | |
|---------------------|---|
| Variable | Stop timer |
| Address | [2886] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | This parameter is used to determine the time during which the stop condition must be met in order to stop generator(s). |

| | |
|---------------------|--|
| Variable | Stop : Reserve > Renewable energy current power multiplied by |
| Address | [2889] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1000 |
| Description | <p>This parameter is used to determine the proportion of active power produced by renewable energies for which a reserve power must be provided by batteries and/or generators.</p> <p>This is the stop threshold. It must be slightly different from the start threshold to ensure hysteresis.</p> <p>Ex: If the parameter value is 60%, and renewable energies produce 100kW at a given time t, then, a generator will stop if the reserve power provided by the batteries and/or generators remains above 60kW (60%*100kW) after the generator has stopped.</p> |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Frequency Global Gain |
| Address | [2900] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | <p>This parameter multiplies the 3 components of the regulation (P, I and D). In most cases it is recommended to leave the default values of P, I and D and to change only this parameter. If the system seems too slow, increase this parameter. If on the contrary the system is unstable due to a too strong correction, decrease this parameter.</p> <p>The frequency regulation is active during the synchronization if the frequency of the generator(s) is very far from the setpoint (value to be reached for coupling). When the frequency is close to the setpoint, the frequency regulation is not active, only the phase regulation is.</p> <p>Therefore, to correctly adjust the frequency regulation, it is necessary to move the frequency away from the setpoint, for example by changing the offset, or by manually changing the speed correction.</p> |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Frequency Proportional |
| Address | [2901] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | <p>This parameter should only be changed if the system has not been correctly regulated by changing the Gain alone. In this case, refer to the chapter "Control Loop PID" in the technical documentation of your product for a step-by-step method of adjustment.</p> <p>As a general rule :</p> <ul style="list-style-type: none"> - G must remain fixed, neither too low nor too high, it multiplies the 3 other components - Set P, I and D to 0 - Increase P until you have a system that corrects quickly enough, without major instabilities. In most cases, an error persists between the measurement and the setpoint (value to be reached). - Increase I to correct this persistent error over time. - Increase D to reduce the oscillations, if they exist. <p>The frequency regulation is active during the synchronization if the frequency of the generator(s) is very far from the setpoint (value to be reached for coupling). When the frequency is close to the setpoint, the frequency regulation is not active, only the phase regulation is.</p> <p>Therefore, to correctly adjust the frequency regulation, it is necessary to move the frequency away from the setpoint, for example by changing the offset, or by manually changing the speed correction.</p> |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Frequency Integral |
| Address | [2902] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | <p>This parameter should only be changed if the system has not been correctly regulated by changing the Gain alone. In this case, refer to the chapter "Control Loop PID" in the technical documentation of your product for a step-by-step method of adjustment.</p> <p>As a general rule :</p> <ul style="list-style-type: none"> - G must remain fixed, neither too low nor too high, it multiplies the 3 other components - Set P, I and D to 0 - Increase P until you have a system that corrects quickly enough, without major instabilities. In most cases, an error persists between the measurement and the setpoint (value to be reached). - Increase I to correct this persistent error over time. - Increase D to reduce the oscillations, if they exist. <p>The frequency regulation is active during the synchronization if the frequency of the generator(s) is very far from the setpoint (value to be reached for coupling). When the frequency is close to the setpoint, the frequency regulation is not active, only the phase regulation is.</p> <p>Therefore, to correctly adjust the frequency regulation, it is necessary to move the frequency away from the setpoint, for example by changing the offset, or by manually changing the speed correction.</p> |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Frequency Derivate |
| Address | [2903] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | <p>This parameter should only be changed if the system has not been correctly regulated by changing the Gain alone. In this case, refer to the chapter "Control Loop PID" in the technical documentation of your product for a step-by-step method of adjustment.</p> <p>As a general rule :</p> <ul style="list-style-type: none"> - G must remain fixed, neither too low nor too high, it multiplies the 3 other components - Set P, I and D to 0 - Increase P until you have a system that corrects quickly enough, without major instabilities. In most cases, an error persists between the measurement and the setpoint (value to be reached). - Increase I to correct this persistent error over time. - Increase D to reduce the oscillations, if they exist. <p>The frequency regulation is active during the synchronization if the frequency of the generator(s) is very far from the setpoint (value to be reached for coupling). When the frequency is close to the setpoint, the frequency regulation is not active, only the phase regulation is.</p> <p>Therefore, to correctly adjust the frequency regulation, it is necessary to move the frequency away from the setpoint, for example by changing the offset, or by manually changing the speed correction.</p> |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Phase Global Gain |
| Address | [2904] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | <p>This parameter multiplies the 3 components of the regulation (P, I and D). In most cases it is recommended to leave the default values of P, I and D and to change only this parameter. If the system seems too slow, increase this parameter. If on the contrary the system is unstable due to a too strong correction, decrease this parameter.</p> <p>Phase regulation is active during synchronization if the frequency of the generator(s) is close to the frequency setpoint (value to be reached for coupling). When the generator frequency is too far from the frequency setpoint, the phase regulation is not active, only the frequency regulation is.</p> <p>Therefore, to correctly adjust the phase regulation, it is necessary to have a frequency on the generator close to the frequency setpoint, by modifying the offset for example, or by having correctly adjusted the frequency regulation beforehand.</p> |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Phase Proportional |
| Address | [2905] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | <p>This parameter should only be changed if the system has not been correctly regulated by changing the Gain alone. In this case, refer to the chapter "Control Loop PID" in the technical documentation of your product for a step-by-step method of adjustment.</p> <p>As a general rule :</p> <ul style="list-style-type: none"> - G must remain fixed, neither too low nor too high, it multiplies the 3 other components - Set P, I and D to 0 - Increase P until you have a system that corrects quickly enough, without major instabilities. In most cases, an error persists between the measurement and the setpoint (value to be reached). - Increase I to correct this persistent error over time. - Increase D to reduce the oscillations, if they exist. <p>Phase regulation is active during synchronization if the frequency of the generator(s) is close to the frequency setpoint (value to be reached for coupling). When the generator frequency is too far from the frequency setpoint, the phase regulation is not active, only the frequency regulation is.</p> <p>Therefore, to correctly adjust the phase regulation, it is necessary to have a frequency on the generator close to the frequency setpoint, by modifying the offset for example, or by having correctly adjusted the frequency regulation beforehand.</p> |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Phase Integral |
| Address | [2906] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | <p>This parameter should only be changed if the system has not been correctly regulated by changing the Gain alone. In this case, refer to the chapter "Control Loop PID" in the technical documentation of your product for a step-by-step method of adjustment.</p> <p>As a general rule :</p> <ul style="list-style-type: none"> - G must remain fixed, neither too low nor too high, it multiplies the 3 other components - Set P, I and D to 0 - Increase P until you have a system that corrects quickly enough, without major instabilities. In most cases, an error persists between the measurement and the setpoint (value to be reached). - Increase I to correct this persistent error over time. - Increase D to reduce the oscillations, if they exist. <p>Phase regulation is active during synchronization if the frequency of the generator(s) is close to the frequency setpoint (value to be reached for coupling). When the generator frequency is too far from the frequency setpoint, the phase regulation is not active, only the frequency regulation is.</p> <p>Therefore, to correctly adjust the phase regulation, it is necessary to have a frequency on the generator close to the frequency setpoint, by modifying the offset for example, or by having correctly adjusted the frequency regulation beforehand.</p> |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Phase Derivate |
| Address | [2907] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | <p>This parameter should only be changed if the system has not been correctly regulated by changing the Gain alone. In this case, refer to the chapter "Control Loop PID" in the technical documentation of your product for a step-by-step method of adjustment.</p> <p>As a general rule :</p> <ul style="list-style-type: none"> - G must remain fixed, neither too low nor too high, it multiplies the 3 other components - Set P, I and D to 0 - Increase P until you have a system that corrects quickly enough, without major instabilities. In most cases, an error persists between the measurement and the setpoint (value to be reached). - Increase I to correct this persistent error over time. - Increase D to reduce the oscillations, if they exist. <p>Phase regulation is active during synchronization if the frequency of the generator(s) is close to the frequency setpoint (value to be reached for coupling). When the generator frequency is too far from the frequency setpoint, the phase regulation is not active, only the frequency regulation is.</p> <p>Therefore, to correctly adjust the phase regulation, it is necessary to have a frequency on the generator close to the frequency setpoint, by modifying the offset for example, or by having correctly adjusted the frequency regulation beforehand.</p> |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | kW/Freq Gain |
| Address | [2908] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | <p>This parameter multiplies the 3 components of the regulation (P, I and D). In most cases it is recommended to leave the default values of P, I and D and to change only this parameter. If the system seems too slow, increase this parameter. If on the contrary the system is unstable due to a too strong correction, decrease this parameter.</p> <p>The kW regulation is active as soon as the genset(s) are paralleled to another source.</p> <p>The parameters of this regulation ensure simultaneously:</p> <ul style="list-style-type: none"> - kW regulation in all conditions (load ramp, unload ramp, stabilization phase). - Frequency regulation when the generator(s) are paralleled to another source. Not to be confused with the regulation dedicated to the frequency which only ensures the synchronization before coupling. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | kW/Freq Proportional |
| Address | [2909] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | <p>This parameter should only be changed if the system has not been correctly regulated by changing the Gain alone. In this case, refer to the chapter "Control Loop PID" in the technical documentation of your product for a step-by-step method of adjustment.</p> <p>As a general rule :</p> <ul style="list-style-type: none"> - G must remain fixed, neither too low nor too high, it multiplies the 3 other components - Set P, I and D to 0 - Increase P until you have a system that corrects quickly enough, without major instabilities. In most cases, an error persists between the measurement and the setpoint (value to be reached). - Increase I to correct this persistent error over time. - Increase D to reduce the oscillations, if they exist. <p>The kW regulation is active as soon as the genset(s) are paralleled to another source.</p> <p>The parameters of this regulation ensure simultaneously:</p> <ul style="list-style-type: none"> - kW regulation in all conditions (load ramp, unload ramp, stabilization phase). - Frequency regulation when the generator(s) are paralleled to another source. Not to be confused with the regulation dedicated to the frequency which only ensures the synchronization before coupling. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | kW/Freq Integral |
| Address | [2910] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | <p>This parameter should only be changed if the system has not been correctly regulated by changing the Gain alone. In this case, refer to the chapter "Control Loop PID" in the technical documentation of your product for a step-by-step method of adjustment.</p> <p>As a general rule :</p> <ul style="list-style-type: none"> - G must remain fixed, neither too low nor too high, it multiplies the 3 other components - Set P, I and D to 0 - Increase P until you have a system that corrects quickly enough, without major instabilities. In most cases, an error persists between the measurement and the setpoint (value to be reached). - Increase I to correct this persistent error over time. - Increase D to reduce the oscillations, if they exist. <p>The kW regulation is active as soon as the genset(s) are paralleled to another source.</p> <p>The parameters of this regulation ensure simultaneously:</p> <ul style="list-style-type: none"> - kW regulation in all conditions (load ramp, unload ramp, stabilization phase). - Frequency regulation when the generator(s) are paralleled to another source. Not to be confused with the regulation dedicated to the frequency which only ensures the synchronization before coupling. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | kW/Freq Derivative |
| Address | [2911] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | <p>This parameter should only be changed if the system has not been correctly regulated by changing the Gain alone. In this case, refer to the chapter "Control Loop PID" in the technical documentation of your product for a step-by-step method of adjustment.</p> <p>As a general rule :</p> <ul style="list-style-type: none"> - G must remain fixed, neither too low nor too high, it multiplies the 3 other components - Set P, I and D to 0 - Increase P until you have a system that corrects quickly enough, without major instabilities. In most cases, an error persists between the measurement and the setpoint (value to be reached). - Increase I to correct this persistent error over time. - Increase D to reduce the oscillations, if they exist. <p>The kW regulation is active as soon as the genset(s) are paralleled to another source.</p> <p>The parameters of this regulation ensure simultaneously:</p> <ul style="list-style-type: none"> - kW regulation in all conditions (load ramp, unload ramp, stabilization phase). - Frequency regulation when the generator(s) are paralleled to another source. Not to be confused with the regulation dedicated to the frequency which only ensures the synchronization before coupling. |

| | |
|---------------------|---|
| Variable | Frequency centering |
| Address | [2914] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | <p>The kW regulation affects both kW and frequency simultaneously when the genset(s) are paralleled to another source. This parameter allows you to give more or less importance to each in the regulation. The higher the value of this parameter, the more the frequency will be corrected at the disadvantage of the kW. Conversely, the lower the value of this parameter, the more the KW will be corrected at the disadvantage of the frequency.</p> <p>In most cases, it is recommended not to change the default value.</p> |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Voltage Global Gain |
| Address | [2950] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | <p>This parameter multiplies the 3 components of the regulation (P, I and D). In most cases it is recommended to leave the default values of P, I and D and to change only this parameter. If the system seems too slow, increase this parameter. If on the contrary the system is unstable due to a too strong correction, decrease this parameter.</p> <p>The voltage regulation is active during the whole synchronization phase of the generator(s).</p> <p>To correctly adjust the voltage regulation, it is necessary to move the voltage away from the setpoint, for example by changing the offset, or by manually changing the voltage correction.</p> |

| | |
|---------------------|---|
| Variable | Voltage Proportional |
| Address | [2951] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | <p>This parameter should only be changed if the system has not been correctly regulated by changing the Gain alone. In this case, refer to the chapter "Control Loop PID" in the technical documentation of your product for a step-by-step method of adjustment.</p> <p>As a general rule :</p> <ul style="list-style-type: none"> - G must remain fixed, neither too low nor too high, it multiplies the 3 other components - Set P, I and D to 0 - Increase P until you have a system that corrects quickly enough, without major instabilities. In most cases, an error persists between the measurement and the setpoint (value to be reached). - Increase I to correct this persistent error over time. - Increase D to reduce the oscillations, if they exist. <p>The voltage regulation is active during the whole synchronization phase of the generator(s).</p> <p>To correctly adjust the voltage regulation, it is necessary to move the voltage away from the setpoint, for example by changing the offset, or by manually changing the voltage correction.</p> |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Voltage Integral |
| Address | [2952] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | <p>This parameter should only be changed if the system has not been correctly regulated by changing the Gain alone. In this case, refer to the chapter "Control Loop PID" in the technical documentation of your product for a step-by-step method of adjustment.</p> <p>As a general rule :</p> <ul style="list-style-type: none"> - G must remain fixed, neither too low nor too high, it multiplies the 3 other components - Set P, I and D to 0 - Increase P until you have a system that corrects quickly enough, without major instabilities. In most cases, an error persists between the measurement and the setpoint (value to be reached). - Increase I to correct this persistent error over time. - Increase D to reduce the oscillations, if they exist. <p>The voltage regulation is active during the whole synchronization phase of the generator(s).</p> <p>To correctly adjust the voltage regulation, it is necessary to move the voltage away from the setpoint, for example by changing the offset, or by manually changing the voltage correction.</p> |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Voltage Derivate |
| Address | [2953] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | <p>This parameter should only be changed if the system has not been correctly regulated by changing the Gain alone. In this case, refer to the chapter "Control Loop PID" in the technical documentation of your product for a step-by-step method of adjustment.</p> <p>As a general rule :</p> <ul style="list-style-type: none"> - G must remain fixed, neither too low nor too high, it multiplies the 3 other components - Set P, I and D to 0 - Increase P until you have a system that corrects quickly enough, without major instabilities. In most cases, an error persists between the measurement and the setpoint (value to be reached). - Increase I to correct this persistent error over time. - Increase D to reduce the oscillations, if they exist. <p>The voltage regulation is active during the whole synchronization phase of the generator(s).</p> <p>To correctly adjust the voltage regulation, it is necessary to move the voltage away from the setpoint, for example by changing the offset, or by manually changing the voltage correction.</p> |

| | |
|---------------------|--|
| Variable | kVAR/Voltage Gain |
| Address | [2954] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | <p>This parameter multiplies the 3 components of the regulation (P, I and D). In most cases it is recommended to leave the default values of P, I and D and to change only this parameter. If the system seems too slow, increase this parameter. If on the contrary the system is unstable due to a too strong correction, decrease this parameter.</p> <p>The kVAR regulation is active as soon as the genset(s) are paralleled to another source.</p> <p>The parameters of this regulation ensure simultaneously:</p> <ul style="list-style-type: none"> - kVAR regulation in all conditions (load ramp, unload ramp, stabilization phase). - Voltage regulation when the genset(s) are paralleled to another source. Not to be confused with the dedicated voltage regulation which only ensures the synchronization before coupling. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | kVAR/Voltage Proportional |
| Address | [2955] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | <p>This parameter should only be changed if the system has not been correctly regulated by changing the Gain alone. In this case, refer to the chapter "Control Loop PID" in the technical documentation of your product for a step-by-step method of adjustment.</p> <p>As a general rule :</p> <ul style="list-style-type: none"> - G must remain fixed, neither too low nor too high, it multiplies the 3 other components - Set P, I and D to 0 - Increase P until you have a system that corrects quickly enough, without major instabilities. In most cases, an error persists between the measurement and the setpoint (value to be reached). - Increase I to correct this persistent error over time. - Increase D to reduce the oscillations, if they exist. <p>The kVAR regulation is active as soon as the genset(s) are paralleled to another source.</p> <p>The parameters of this regulation ensure simultaneously:</p> <ul style="list-style-type: none"> - kVAR regulation in all conditions (load ramp, unload ramp, stabilization phase). - Voltage regulation when the genset(s) are paralleled to another source. Not to be confused with the dedicated voltage regulation which only ensures the synchronization before coupling. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | kVAR/Voltage Integral |
| Address | [2956] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | <p>This parameter should only be changed if the system has not been correctly regulated by changing the Gain alone. In this case, refer to the chapter "Control Loop PID" in the technical documentation of your product for a step-by-step method of adjustment.</p> <p>As a general rule :</p> <ul style="list-style-type: none"> - G must remain fixed, neither too low nor too high, it multiplies the 3 other components - Set P, I and D to 0 - Increase P until you have a system that corrects quickly enough, without major instabilities. In most cases, an error persists between the measurement and the setpoint (value to be reached). - Increase I to correct this persistent error over time. - Increase D to reduce the oscillations, if they exist. <p>The kVAR regulation is active as soon as the genset(s) are paralleled to another source.</p> <p>The parameters of this regulation ensure simultaneously:</p> <ul style="list-style-type: none"> - kVAR regulation in all conditions (load ramp, unload ramp, stabilization phase). - Voltage regulation when the genset(s) are paralleled to another source. Not to be confused with the dedicated voltage regulation which only ensures the synchronization before coupling. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | kVAR/Voltage Derivate |
| Address | [2957] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | <p>This parameter should only be changed if the system has not been correctly regulated by changing the Gain alone. In this case, refer to the chapter "Control Loop PID" in the technical documentation of your product for a step-by-step method of adjustment.</p> <p>As a general rule :</p> <ul style="list-style-type: none"> - G must remain fixed, neither too low nor too high, it multiplies the 3 other components - Set P, I and D to 0 - Increase P until you have a system that corrects quickly enough, without major instabilities. In most cases, an error persists between the measurement and the setpoint (value to be reached). - Increase I to correct this persistent error over time. - Increase D to reduce the oscillations, if they exist. <p>The kVAR regulation is active as soon as the genset(s) are paralleled to another source.</p> <p>The parameters of this regulation ensure simultaneously:</p> <ul style="list-style-type: none"> - kVAR regulation in all conditions (load ramp, unload ramp, stabilization phase). - Voltage regulation when the genset(s) are paralleled to another source. Not to be confused with the dedicated voltage regulation which only ensures the synchronization before coupling. |

| | |
|---------------------|--|
| Variable | Voltage centering |
| Address | [2958] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | <p>The kVAR regulation simultaneously affects the kVAR and the voltage when the genset(s) are paralleled to another source. This parameter allows you to give more or less importance to each in the regulation. The higher the value of this parameter, the more the voltage will be corrected at the disadvantage of the kVARs. Conversely, the lower the value of this parameter, the more the KVARs will be corrected at the disadvantage of the voltage.</p> <p>In most cases, it is recommended not to change the default value.</p> |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Off load timer (Only for start with timer) |
| Address | [3478] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | This delay is used during a start on load with delay, either by activating a digital input configured as "Start on load with delay" in auto mode, or by using the test mode by having configured the product to do a "Start on load with delay" test. It corresponds to the waiting time between the end of the engine sequence and the closure of the generator breaker. |

| | |
|---------------------|--|
| Variable | Pulse frequency dead band |
| Address | [3650] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10000 |
| Description | This setpoint adjusts the Dead Band in case of speed control by pulses. This dead band in % determinated the area around nominal frequency with no actions regarding +/- pulses output. If nominal frequency 50Hz, dead band 1 %. No pulse output between 49,5Hz to 50,5Hz |

| | |
|---------------------|--|
| Variable | Pulse voltage dead band |
| Address | [3651] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10000 |
| Description | This setpoint adjusts the Dead Band in case of voltage control by pulses. This dead band in % determinated the area around nominal voltage, with no actions regarding +/- pulses output. If nominal voltage 400Vac, dead band 1 %. No pulse output between 396Vac to 404Vac. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Frequency pulse divider |
| Address | [3652] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | This setpoint adjusts the "pulse divider" in case of speed control by pulses. This pulse divider is able to change the response time of speed control by pulses. If you increase the value of pulse divider, you will decrease the time of pulse active. |

| | |
|---------------------|--|
| Variable | Voltage pulse divider |
| Address | [3653] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | This setpoint adjusts the "pulse divider" in case of voltage control by pulses. This pulse divider is able to change the response time of voltage control by pulses. If you increase the value of pulse divider, you will decrease the time of pulse active. |

BUS

| | |
|---------------------|--|
| Variable | PT ratio |
| Address | [2150] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | This parameter allows you to set the ratio between the voltage present on the busbar and the voltage connected to the module. Example: Busbar voltage 20.000Vac / Voltage connected to the module 100 Vac: PT ratio value = $20.000/100 = 200$. This PT ratio can be calculated or is indicated on the measuring transformers. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Nominal voltage |
| Address | [2152] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | <p>This parameter is used to set the nominal voltage:</p> <ul style="list-style-type: none"> - Three-phase and two-phase: Enter a phase-to-phase voltage. - Single-phase: Enter a phase-to-neutral voltage. <p>All the protections based on the voltage are calculated as a percentage of this value.</p> <p>For low voltage (400VAC, 440VAC, 480VAC, etc...) or high voltage (20.000VAC, 33.000VAC, etc...) applications, this variable must be adjusted.</p> |

ENGINE

| | |
|---------------------|--|
| Variable | Hide engine measurement |
| Address | [2032] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: Yes |
| Description | <p>This parameter determines if the product should hide the engine measurements.</p> <ul style="list-style-type: none"> - No: Engine measurements will be displayed - Yes: Engine measurements will not be displayed |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Type of engine speed measurement |
| Address | [2200] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Pick-up 1: Alternator 2: J1939/MTU MDEC |
| Description | This parameter allows you to determine the way in which the automatic system will get the speed measurement. 3 choices are available: - Pick-up : In this case the speed measurement is deduced from the frequency of the pick-up signal. An incorrect speed value may be due to a wrong setting of the number of teeth. - Alternator : In this case the speed measurement is deduced from the frequency measured on the alternator voltages. An incorrect speed value may be due to an incorrect setting of the number of pairs of poles. - J1939/MTU MDEC : In this case the speed measurement is read in J1939 or via the MDEC protocol. An incorrect speed value may be due to a wrong wiring (CAN2) or a wrong address configured for the ECU identifier. |

| | |
|---------------------|---|
| Variable | Number of teeth for pick-up |
| Address | [2201] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 1 |
| Max value | 65535 |
| Description | This parameter sets the number of teeth for the pick-up that determines the speed value when measured from the pick-up input. A wrong value for the number of teeth will result in a wrong value for the speed. |

| | |
|---------------------|--|
| Variable | Number of pole pairs |
| Address | [2202] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 50 |
| Description | This parameter sets the number of pole pairs of the alternator, which is used to determine the value of the speed when it is measured from the frequency of the alternator. A wrong value of the number of pole pairs will result in a wrong value of the speed. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Nominal speed |
| Address | [2207] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10000 |
| Description | This parameter determines the speed at which the engine runs at steady state. A wrong value of this parameter can cause the speed and frequency protections to trip, the engine to stop during start-up sequences, and a wrong centering of the frequency. Set 1500 rpm for a 50Hz application and 1800 rpm for a 60Hz application. |

| | |
|---------------------|---|
| Variable | ECU Manufacturer |
| Address | [3100] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 1: Scania 2: Volvo 3: Perkins 4: Iveco 5: Generic 6: Cummins 7: John Deere 8: Caterpillar 9: Deutz 10: MTU 11: Detroit diesel |
| Description | This parameter allows you to choose the manufacturer of your ECU/Engine. If the manufacturer of your ECU/Engine is not present in the list, set the parameter to Generic. |

| | |
|---------------------|--|
| Variable | Units of measurement |
| Address | [3117] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Bar, °C, L/h 1: PSI, °F, G/h |
| Description | This parameter allows you to set the J1939 system of units of measurement. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | External start sequence |
| Address | [3452] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Disabled 1: Enable |
| Description | <p>This parameter allows to determine if the module must manage the engine sequence or if another device manages it. 2 values can be configured:</p> <ul style="list-style-type: none"> - Disabled: The management of the start sequence externally is disabled. The module manages the entire engine sequence. - Enabled: The engine sequence is managed by another device. In this case, when a remote start is activated in Auto mode or when the start button is pressed in manual mode, the module gives a start command (via a digital output) to the module responsible for the engine sequence and waits for a configurable delay before going to fault if the engine has not started. |

| | |
|---------------------|--|
| Variable | External module start failure timer |
| Address | [3453] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | <p>This parameter, which takes effect when the external start sequence is activated, allows you to set the time after which the product activates a fault if the engine has not started.</p> |

| | |
|---------------------|--|
| Variable | Pre-start timer (Glow plugs & Auxiliaries) |
| Address | [3456] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | <p>This timer determines how long the Pre-Start output will remain active. This output can be used to activate the glow plugs or any auxiliary functions of Pre-Start (water preheating, pre-lubrication, etc.).</p> |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Maximum holding time of the starter |
| Address | [3457] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | This parameter allows to determine the maximum activation time of the starter. If the speed has not reached the value configured in the parameter Crank drop out after this time, the starter will deactivate and the module will make further start attempts according to the configuration made. |

| | |
|---------------------|---|
| Variable | Delay between each start |
| Address | [3458] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | This parameter allows you to determine the waiting time between start attempts (i.e. activation of the starters). |

| | |
|---------------------|--|
| Variable | Activation order of starters |
| Address | [3459] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Alternative 1: Consecutive |
| Description | This parameter determines the order in which the starters will activate if there are multiple starters configured. 2 choices are possible: - Alternative : The automated system activates the starters one after the other and repeats with the first. - Consecutive : Each starter executes several trials consecutively before handing over to the next starter. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | First starter |
| Address | [3460] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 1 |
| Max value | 3 |
| Description | This parameter determines the first starter that the module will activate if there are several starters configured. |

| | |
|---------------------|--|
| Variable | Number of attempts per starter |
| Address | [3461] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | This parameter determines the number of start attempts made on each starter before stopping the sequence with a fault display. |

| | |
|---------------------|---|
| Variable | Stop threshold of the first starter |
| Address | [3462] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10000 |
| Description | This parameter determines the speed threshold at which starter #1 will cut out (unless the threshold is reached faster than the minimum holding time of the starter, in which case the automated system will respect the minimum holding time). |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Stop threshold of the second starter |
| Address | [3463] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10000 |
| Description | This parameter determines the speed threshold at which starter #2 will cut out (unless the threshold is reached faster than the minimum holding time of the starter, in which case the automated system will respect the minimum holding time). |

| | |
|---------------------|---|
| Variable | Stop threshold of the third starter |
| Address | [3464] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10000 |
| Description | This parameter determines the speed threshold at which starter #3 will cut out (unless the threshold is reached faster than the minimum holding time of the starter, in which case the automated system will respect the minimum holding time). |

| | |
|---------------------|--|
| Variable | Minimum holding time of the starter |
| Address | [3466] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | This parameter determines the minimum activation time of the starter. The starter will remain active for this time even if the speed reaches the threshold set in the parameter Crank drop out faster. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Engine preheat timer (Idle or Nominal speed) |
| Address | [3467] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Engine preheat timer without load. During the entire engine preheat time, the engine can run at nominal speed or at idle: See page Engine / Start/Stop. |

| | |
|---------------------|--|
| Variable | Idle speed |
| Address | [3468] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10000 |
| Description | This parameter allows you to define the idle speed that will be applied during the preheating phase and/or the cooling phase (depending on the configuration made). When the engine speed is controlled from the speed output of the module, a digital output configured as Idle speed must be wired on the speed control to apply the idle speed. In the case of speed control in J1939, the product will automatically apply the idle speed in the speed frame TSC1. |

| | |
|---------------------|---|
| Variable | Speed stabilization timer |
| Address | [3469] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Time during which the speed must remain stable between 95 and 105% of nominal before continuing the engine sequence. By default, the speed must remain stable for 3s between 95 and 105% of nominal. Not to be confused with the maximum time (available in the protection pages) at the end of which the product will stop the engine if the speed has not stabilized. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Cooling timer (Idle or Nominal speed) |
| Address | [3470] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Time delay for the engine to cool down after the stop request. While the engine is cooling down, the engine can run at nominal speed or at idle: See page Engine / Start/Stop. |

| | |
|---------------------|---------------------------|
| Variable | Fail to stop engine |
| Address | [3471] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Fail to stop engine timer |

| | |
|---------------------|---|
| Variable | Energize to stop hold timer |
| Address | [3472] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Holding time of the energize to stop output after the speed measurement has reached zero. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Cooling fan activation threshold |
| Address | [3475] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | This parameter allows to define the temperature of the coolant above which the fan will be activated. A digital output of the module must be configured as Cooling fan. |

| | |
|---------------------|--|
| Variable | Engine speed during cooling |
| Address | [3476] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Nominal speed 1: Idle speed |
| Description | This parameter determines the speed at which the engine should run during the cooling phase. |

| | |
|---------------------|---|
| Variable | Engine type |
| Address | [3477] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Diesel 1: Gas |
| Description | This parameter allows you to define the engine type of the generator. 2 choices are available: - Diesel: Management of the fuel activation and starter(s), management of the pre-heating, stabilization, cooling phases, etc... - Gas: Management of the ignition in addition to the other elements common to diesel engines. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Engine speed during preheating |
| Address | [3479] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Nominal speed 1: Idle speed |
| Description | This parameter determines the speed at which the engine should run during the preheating phase. |

| | |
|---------------------|--|
| Variable | Time before ignition |
| Address | [3480] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Time during which the starter is active without ignition |

| | |
|---------------------|--|
| Variable | Ignition time on start |
| Address | [3481] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Ignition activation time at engine start |

| | |
|---------------------|---|
| Variable | Ignition time on stop |
| Address | [3482] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Ignition activation time at engine stop |

CAN BUS ECU/ECM

| | |
|---------------------|---|
| Variable | ECU ID |
| Address | [3102] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 255 |
| Description | This parameter allows to define the CAN identifier of the ECU. A wrong value configured on this parameter results in an impossibility of reading and displaying the measurements transmitted by the ECU. |

| | |
|---------------------|--|
| Variable | COMPACT ID |
| Address | [3103] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 255 |
| Description | This parameter allows to define the CAN identifier of the module. A wrong value set on this parameter results in the impossibility to send commands to the ECU (i.e. to control the engine speed, the engine start and stop, etc.). |

| | |
|---------------------|---|
| Variable | Control on Malfunction Indicator Lamp |
| Address | [3110] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Control on Protection Lamp |
| Address | [3111] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Control on Amber Warning Lamp |
| Address | [3112] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Control on Red Stop Lamp |
| Address | [3113] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Enable communication protocol |
| Address | [3118] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: J1939 2: MTU MDEC CAN module 201, 303 and 304 3: MTU MDEC CAN module 302 |
| Description | This parameter enables the J1939 communication protocol or the MTU MDEC communication protocol (MTU MDEC can only be selected if the option has been enabled and the controller is connected.) When the J1939 protocol is activated, the CAN 2 bus speed is forced to 250kb/s. The parameter which allows the CAN 2 speed to be set no longer has any effect. When the MDEC protocol is activated, the speed of the CAN 2 bus is forced to 125kb/s. The parameter which allows the CAN 2 speed to be set no longer has any effect. |

INPUTS/OUTPUTS

| | |
|---------------------|---|
| Variable | Validity on analog input 1 |
| Address | [2681] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Analog input 1 validity when set as digital input (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on analog input 2 |
| Address | [2682] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Analog input 2 validity when set as digital input (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Validity on analog input 3 |
| Address | [2683] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Analog input 3 validity when set as digital input (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|--|
| Variable | Polarity NO/NC on AI 1 |
| Address | [2684] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of Analog input 1 when set as digital input (0=Normaly Open/1=Normaly Close) |

| | |
|---------------------|--|
| Variable | Polarity NO/NC on AI 2 |
| Address | [2685] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of Analog input 2 when set as digital input (0=Normaly Open/1=Normaly Close) |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Polarity NO/NC on AI 3 |
| Address | [2686] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of Analog input 3 when set as digital input (0=Normaly Open/1=Normaly Close) |

| | |
|---------------------|--|
| Variable | Delay on AI activation 1 |
| Address | [2687] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Activation delay of Analog input 1 when set as digital input |

| | |
|---------------------|--|
| Variable | Delay on AI activation 2 |
| Address | [2688] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Activation delay of Analog input 2 when set as digital input |

| | |
|---------------------|--|
| Variable | Delay on AI activation 3 |
| Address | [2689] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Activation delay of Analog input 3 when set as digital input |

MODBUS TABLE

| | |
|---------------------|----------------------------------|
| Variable | Timer ON Digital Input 1 |
| Address | [2709] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Digital Input 1 activation timer |

| | |
|---------------------|----------------------------------|
| Variable | Timer ON Digital Input 2 |
| Address | [2710] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Digital Input 2 activation timer |

| | |
|---------------------|----------------------------------|
| Variable | Timer ON Digital Input 3 |
| Address | [2711] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Digital Input 3 activation timer |

| | |
|---------------------|----------------------------------|
| Variable | Timer ON Digital Input 4 |
| Address | [2712] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Digital Input 4 activation timer |

MODBUS TABLE

| | |
|---------------------|----------------------------------|
| Variable | Timer ON Digital Input 5 |
| Address | [2713] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Digital Input 5 activation timer |

| | |
|---------------------|----------------------------------|
| Variable | Timer ON Digital Input 6 |
| Address | [2714] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Digital Input 6 activation timer |

| | |
|---------------------|----------------------------------|
| Variable | Timer ON Digital Input 7 |
| Address | [2715] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Digital Input 7 activation timer |

| | |
|---------------------|----------------------------------|
| Variable | Timer ON Digital Input 8 |
| Address | [2716] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Digital Input 8 activation timer |

MODBUS TABLE

| | |
|---------------------|----------------------------------|
| Variable | Timer ON Digital Input 9 |
| Address | [2717] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Digital Input 9 activation timer |

| | |
|---------------------|-------------------------------------|
| Variable | Timer OFF Digital Input 1 |
| Address | [2718] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Digital Input 1 desactivation timer |

| | |
|---------------------|-------------------------------------|
| Variable | Timer OFF Digital Input 2 |
| Address | [2719] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Digital Input 2 desactivation timer |

| | |
|---------------------|-------------------------------------|
| Variable | Timer OFF Digital Input 3 |
| Address | [2720] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Digital Input 3 desactivation timer |

MODBUS TABLE

| | |
|---------------------|-------------------------------------|
| Variable | Timer OFF Digital Input 4 |
| Address | [2721] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Digital Input 4 desactivation timer |

| | |
|---------------------|-------------------------------------|
| Variable | Timer OFF Digital Input 5 |
| Address | [2722] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Digital Input 5 desactivation timer |

| | |
|---------------------|-------------------------------------|
| Variable | Timer OFF Digital Input 6 |
| Address | [2723] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Digital Input 6 desactivation timer |

| | |
|---------------------|-------------------------------------|
| Variable | Timer OFF Digital Input 7 |
| Address | [2724] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Digital Input 7 desactivation timer |

MODBUS TABLE

| | |
|---------------------|-------------------------------------|
| Variable | Timer OFF Digital Input 8 |
| Address | [2725] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Digital Input 8 desactivation timer |

| | |
|---------------------|-------------------------------------|
| Variable | Timer OFF Digital Input 9 |
| Address | [2726] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Digital Input 9 desactivation timer |

| | |
|---------------------|---|
| Variable | Validity on digital input 1 |
| Address | [2727] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Digital Input 1 activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on digital input 2 |
| Address | [2728] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Digital Input 2 activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Validity on digital input 3 |
| Address | [2729] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Digital Input 3 activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on digital input 4 |
| Address | [2730] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Digital Input 4 activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on digital input 5 |
| Address | [2731] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Digital Input 5 activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Validity on digital input 6 |
| Address | [2732] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Digital Input 6 activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on digital input 7 |
| Address | [2733] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Digital Input 7 activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on digital input 8 |
| Address | [2734] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Digital Input 8 activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Validity on digital input 9 |
| Address | [2735] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Digital Input 9 activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Polarity NO/NC on DI 1 |
| Address | [2736] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of Digital Input 1 (0=Normaly Open/1=Normaly Close) |

| | |
|---------------------|---|
| Variable | Polarity NO/NC on DI 2 |
| Address | [2737] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of Digital Input 2 (0=Normaly Open/1=Normaly Close) |

| | |
|---------------------|---|
| Variable | Polarity NO/NC on DI 3 |
| Address | [2738] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of Digital Input 3 (0=Normaly Open/1=Normaly Close) |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Polarity NO/NC on DI 4 |
| Address | [2739] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of Digital Input 4 (0=Normaly Open/1=Normaly Close) |

| | |
|---------------------|---|
| Variable | Polarity NO/NC on DI 5 |
| Address | [2740] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of Digital Input 5 (0=Normaly Open/1=Normaly Close) |

| | |
|---------------------|---|
| Variable | Polarity NO/NC on DI 6 |
| Address | [2741] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of Digital Input 6 (0=Normaly Open/1=Normaly Close) |

| | |
|---------------------|---|
| Variable | Polarity NO/NC on DI 7 |
| Address | [2742] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of Digital Input 7 (0=Normaly Open/1=Normaly Close) |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Polarity NO/NC on DI 8 |
| Address | [2743] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of Digital Input 8 (0=Normaly Open/1=Normaly Close) |

| | |
|---------------------|---|
| Variable | Polarity NO/NC on DI 9 |
| Address | [2744] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of Digital Input 9 (0=Normaly Open/1=Normaly Close) |

| | |
|---------------------|--|
| Variable | Polarity NE/ND DO 1 |
| Address | [2751] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Polarity (0=Normaly De-energized / 1=Normaly Energized) Digital output 1 |

| | |
|---------------------|--|
| Variable | Polarity NE/ND DO 2 |
| Address | [2752] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Polarity (0=Normaly De-energized / 1=Normaly Energized) Digital output 2 |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Polarity NE/ND DO 3 |
| Address | [2753] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Polarity (0=Normaly De-energized / 1=Normaly Energized) Digital output 3 |

| | |
|---------------------|--|
| Variable | Polarity NE/ND DO 4 |
| Address | [2754] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Polarity (0=Normaly De-energized / 1=Normaly Energized) Digital output 4 |

| | |
|---------------------|--|
| Variable | Polarity NE/ND DO 5 |
| Address | [2755] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Polarity (0=Normaly De-energized / 1=Normaly Energized) Digital output 5 |

| | |
|---------------------|--|
| Variable | Polarity NE/ND DO 6 |
| Address | [2756] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Polarity (0=Normaly De-energized / 1=Normaly Energized) Digital output 6 |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Direction NO/NC Relay 1 |
| Address | [2759] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Relay 1 Direction (0=Normaly Open / 1=Normaly Closed) |

| | |
|---------------------|---|
| Variable | Direction NO/NC Relay 2 |
| Address | [2760] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Relay 2 Direction (0=Normaly Open / 1=Normaly Closed) |

| | |
|---------------------|--|
| Variable | Pulse length DO 1 |
| Address | [2761] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Digital ouput 1 pulse timer (0 = no pulse, continous activation) |

| | |
|---------------------|--|
| Variable | Pulse length DO 2 |
| Address | [2762] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Digital ouput 2 pulse timer (0 = no pulse, continous activation) |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Pulse length DO 3 |
| Address | [2763] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Digital ouput 3 pulse timer (0 = no pulse, continous activation) |

| | |
|---------------------|--|
| Variable | Pulse length DO 4 |
| Address | [2764] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Digital ouput 4 pulse timer (0 = no pulse, continous activation) |

| | |
|---------------------|--|
| Variable | Pulse length DO 5 |
| Address | [2765] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Digital ouput 5 pulse timer (0 = no pulse, continous activation) |

| | |
|---------------------|--|
| Variable | Pulse length DO 6 |
| Address | [2766] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Digital ouput 6 pulse timer (0 = no pulse, continous activation) |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Pulse length R 1 |
| Address | [2767] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Relay output 1 pulse timer (0 = no pulse, continuous activation) |

| | |
|---------------------|--|
| Variable | Pulse length R 2 |
| Address | [2768] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Relay output 2 pulse timer (0 = no pulse, continuous activation) |

| | |
|---------------------|--|
| Variable | Activation delay DO 01 |
| Address | [2793] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Delay before physical activation of logic output 1 |

| | |
|---------------------|--|
| Variable | Activation delay DO 02 |
| Address | [2794] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Delay before physical activation of logic output 2 |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Activation delay DO 03 |
| Address | [2795] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Delay before physical activation of logic output 3 |

| | |
|---------------------|--|
| Variable | Activation delay DO 04 |
| Address | [2796] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Delay before physical activation of logic output 4 |

| | |
|---------------------|--|
| Variable | Activation delay DO 05 |
| Address | [2797] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Delay before physical activation of logic output 5 |

| | |
|---------------------|--|
| Variable | Activation delay DO 06 |
| Address | [2798] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Delay before physical activation of logic output 6 |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Activation delay relay 1 |
| Address | [8250] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Delay before physical activation of relay 1 |

| | |
|---------------------|---|
| Variable | Activation delay relay 2 |
| Address | [8251] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Delay before physical activation of relay 2 |

I/O CAN BUS EXPANSION

| | |
|---------------------|--|
| Variable | CANopenTM I1 |
| Address | [3232] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenTM I2 |
| Address | [3233] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I3 |
| Address | [3234] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I4 |
| Address | [3235] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenTM I5 |
| Address | [3236] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I6 |
| Address | [3237] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I7 |
| Address | [3238] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenTM I8 |
| Address | [3239] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I9 |
| Address | [3240] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I10 |
| Address | [3241] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenTM I11 |
| Address | [3242] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I12 |
| Address | [3243] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I13 |
| Address | [3244] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenTM I14 |
| Address | [3245] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I15 |
| Address | [3246] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I16 |
| Address | [3247] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenTM I17 |
| Address | [3248] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I18 |
| Address | [3249] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I19 |
| Address | [3250] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenTM I20 |
| Address | [3251] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I21 |
| Address | [3252] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I22 |
| Address | [3253] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenTM I23 |
| Address | [3254] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I24 |
| Address | [3255] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I25 |
| Address | [3256] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenTM I26 |
| Address | [3257] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I27 |
| Address | [3258] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I28 |
| Address | [3259] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenTM I29 |
| Address | [3260] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I30 |
| Address | [3261] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I31 |
| Address | [3262] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenTM I32 |
| Address | [3263] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 1 |
| Address | [3264] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 2 |
| Address | [3265] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 3 |
| Address | [3266] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 4 |
| Address | [3267] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 5 |
| Address | [3268] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 6 |
| Address | [3269] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 7 |
| Address | [3270] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 8 |
| Address | [3271] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 9 |
| Address | [3272] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 10 |
| Address | [3273] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 11 |
| Address | [3274] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 12 |
| Address | [3275] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 13 |
| Address | [3276] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 14 |
| Address | [3277] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 15 |
| Address | [3278] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 16 |
| Address | [3279] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 17 |
| Address | [3280] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 18 |
| Address | [3281] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 19 |
| Address | [3282] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 20 |
| Address | [3283] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 21 |
| Address | [3284] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 22 |
| Address | [3285] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 23 |
| Address | [3286] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 24 |
| Address | [3287] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 25 |
| Address | [3288] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 26 |
| Address | [3289] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 27 |
| Address | [3290] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 28 |
| Address | [3291] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 29 |
| Address | [3292] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 30 |
| Address | [3293] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 31 |
| Address | [3294] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 32 |
| Address | [3295] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | CANopenDir I1 |
| Address | [3296] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I2 |
| Address | [3297] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I3 |
| Address | [3298] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | CANopenDir I4 |
| Address | [3299] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I5 |
| Address | [3300] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I6 |
| Address | [3301] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I7 |
| Address | [3302] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | CANopenDir I8 |
| Address | [3303] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I9 |
| Address | [3304] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I10 |
| Address | [3305] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I11 |
| Address | [3306] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | CANopenDir I12 |
| Address | [3307] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I13 |
| Address | [3308] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I14 |
| Address | [3309] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I15 |
| Address | [3310] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | CANopenDir I16 |
| Address | [3311] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I17 |
| Address | [3312] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I18 |
| Address | [3313] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I19 |
| Address | [3314] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | CANopenDir I20 |
| Address | [3315] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I21 |
| Address | [3316] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I22 |
| Address | [3317] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I23 |
| Address | [3318] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | CANopenDir I24 |
| Address | [3319] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I25 |
| Address | [3320] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I26 |
| Address | [3321] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I27 |
| Address | [3322] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | CANopenDir I28 |
| Address | [3323] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I29 |
| Address | [3324] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I30 |
| Address | [3325] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I31 |
| Address | [3326] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | CANopenDir I32 |
| Address | [3327] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|--|
| Variable | CANopenModeO1 |
| Address | [3382] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO2 |
| Address | [3383] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO3 |
| Address | [3384] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenModeO4 |
| Address | [3385] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO5 |
| Address | [3386] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO6 |
| Address | [3387] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO7 |
| Address | [3388] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenModeO8 |
| Address | [3389] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO9 |
| Address | [3390] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO10 |
| Address | [3391] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO11 |
| Address | [3392] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenModeO12 |
| Address | [3393] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO13 |
| Address | [3394] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO14 |
| Address | [3395] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO15 |
| Address | [3396] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenModeO16 |
| Address | [3397] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO17 |
| Address | [3398] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO18 |
| Address | [3399] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO19 |
| Address | [3400] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenModeO20 |
| Address | [3401] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO21 |
| Address | [3402] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO22 |
| Address | [3403] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO23 |
| Address | [3404] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenModeO24 |
| Address | [3405] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO25 |
| Address | [3406] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO26 |
| Address | [3407] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO27 |
| Address | [3408] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenModeO28 |
| Address | [3409] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO29 |
| Address | [3410] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO30 |
| Address | [3411] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO31 |
| Address | [3412] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenModeO32 |
| Address | [3413] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|---|
| Variable | CANopen Offset AI 01 |
| Address | [8350] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Offset for CANopen analog input 1 value |

| | |
|---------------------|---------------------------------------|
| Variable | CANopen Gain AI 01 |
| Address | [8351] |
| Scale Factor | 3 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10000 |
| Description | Gain for CANopen analog input 1 value |

| | |
|---------------------|---|
| Variable | CANopen Offset AI 02 |
| Address | [8352] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Offset for CANopen analog input 2 value |

MODBUS TABLE

| | |
|---------------------|---------------------------------------|
| Variable | CANopen Gain AI 02 |
| Address | [8353] |
| Scale Factor | 3 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10000 |
| Description | Gain for CANopen analog input 2 value |

| | |
|---------------------|---|
| Variable | CANopen Offset AI 03 |
| Address | [8354] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Offset for CANopen analog input 3 value |

| | |
|---------------------|---------------------------------------|
| Variable | CANopen Gain AI 03 |
| Address | [8355] |
| Scale Factor | 3 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10000 |
| Description | Gain for CANopen analog input 3 value |

| | |
|---------------------|---|
| Variable | CANopen Offset AI 04 |
| Address | [8356] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Offset for CANopen analog input 4 value |

MODBUS TABLE

| | |
|---------------------|---------------------------------------|
| Variable | CANopen Gain AI 04 |
| Address | [8357] |
| Scale Factor | 3 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10000 |
| Description | Gain for CANopen analog input 4 value |

| | |
|---------------------|---|
| Variable | CANopen Offset AI 05 |
| Address | [8358] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Offset for CANopen analog input 5 value |

| | |
|---------------------|---------------------------------------|
| Variable | CANopen Gain AI 05 |
| Address | [8359] |
| Scale Factor | 3 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10000 |
| Description | Gain for CANopen analog input 5 value |

| | |
|---------------------|---|
| Variable | CANopen Offset AI 06 |
| Address | [8360] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Offset for CANopen analog input 6 value |

MODBUS TABLE

| | |
|---------------------|---------------------------------------|
| Variable | CANopen Gain AI 06 |
| Address | [8361] |
| Scale Factor | 3 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10000 |
| Description | Gain for CANopen analog input 6 value |

| | |
|---------------------|---|
| Variable | CANopen Offset AI 07 |
| Address | [8362] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Offset for CANopen analog input 7 value |

| | |
|---------------------|---------------------------------------|
| Variable | CANopen Gain AI 07 |
| Address | [8363] |
| Scale Factor | 3 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10000 |
| Description | Gain for CANopen analog input 7 value |

| | |
|---------------------|---|
| Variable | CANopen Offset AI 08 |
| Address | [8364] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Offset for CANopen analog input 8 value |

MODBUS TABLE

| | |
|---------------------|---------------------------------------|
| Variable | CANopen Gain AI 08 |
| Address | [8365] |
| Scale Factor | 3 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10000 |
| Description | Gain for CANopen analog input 8 value |

| | |
|---------------------|---|
| Variable | CANopen Offset AI 09 |
| Address | [8366] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Offset for CANopen analog input 9 value |

| | |
|---------------------|---------------------------------------|
| Variable | CANopen Gain AI 09 |
| Address | [8367] |
| Scale Factor | 3 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10000 |
| Description | Gain for CANopen analog input 9 value |

| | |
|---------------------|--|
| Variable | CANopen Offset AI 10 |
| Address | [8368] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Offset for CANopen analog input 10 value |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopen Gain AI 10 |
| Address | [8369] |
| Scale Factor | 3 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10000 |
| Description | Gain for CANopen analog input 10 value |

| | |
|---------------------|--|
| Variable | CANopen Offset AI 11 |
| Address | [8370] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Offset for CANopen analog input 11 value |

| | |
|---------------------|--|
| Variable | CANopen Gain AI 11 |
| Address | [8371] |
| Scale Factor | 3 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10000 |
| Description | Gain for CANopen analog input 11 value |

| | |
|---------------------|--|
| Variable | CANopen Offset AI 12 |
| Address | [8372] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Offset for CANopen analog input 12 value |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopen Gain AI 12 |
| Address | [8373] |
| Scale Factor | 3 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10000 |
| Description | Gain for CANopen analog input 12 value |

| | |
|---------------------|--|
| Variable | CANopen Offset AI 13 |
| Address | [8374] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Offset for CANopen analog input 13 value |

| | |
|---------------------|--|
| Variable | CANopen Gain AI 13 |
| Address | [8375] |
| Scale Factor | 3 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10000 |
| Description | Gain for CANopen analog input 13 value |

| | |
|---------------------|--|
| Variable | CANopen Offset AI 14 |
| Address | [8376] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Offset for CANopen analog input 14 value |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopen Gain AI 14 |
| Address | [8377] |
| Scale Factor | 3 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10000 |
| Description | Gain for CANopen analog input 14 value |

| | |
|---------------------|--|
| Variable | CANopen Offset AI 15 |
| Address | [8378] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Offset for CANopen analog input 15 value |

| | |
|---------------------|--|
| Variable | CANopen Gain AI 15 |
| Address | [8379] |
| Scale Factor | 3 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10000 |
| Description | Gain for CANopen analog input 15 value |

| | |
|---------------------|--|
| Variable | CANopen Offset AI 16 |
| Address | [8380] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Offset for CANopen analog input 16 value |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopen Gain AI 16 |
| Address | [8381] |
| Scale Factor | 3 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10000 |
| Description | Gain for CANopen analog input 16 value |

| | |
|---------------------|--|
| Variable | CANopenTM I33 |
| Address | [8582] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I34 |
| Address | [8583] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenTM I35 |
| Address | [8584] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I36 |
| Address | [8585] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I37 |
| Address | [8586] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenTM I38 |
| Address | [8587] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I39 |
| Address | [8588] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I40 |
| Address | [8589] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenTM I41 |
| Address | [8590] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I42 |
| Address | [8591] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I43 |
| Address | [8592] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenTM I44 |
| Address | [8593] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I45 |
| Address | [8594] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I46 |
| Address | [8595] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenTM I47 |
| Address | [8596] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I48 |
| Address | [8597] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I49 |
| Address | [8598] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenTM I50 |
| Address | [8599] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I51 |
| Address | [8600] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I52 |
| Address | [8601] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenTM I53 |
| Address | [8602] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I54 |
| Address | [8603] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I55 |
| Address | [8604] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenTM I56 |
| Address | [8605] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I57 |
| Address | [8606] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I58 |
| Address | [8607] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenTM I59 |
| Address | [8608] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I60 |
| Address | [8609] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I61 |
| Address | [8610] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenTM I62 |
| Address | [8611] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I63 |
| Address | [8612] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

| | |
|---------------------|--|
| Variable | CANopenTM I64 |
| Address | [8613] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Function execution delay, user can add execution delay after logic input status change |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 33 |
| Address | [8614] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 34 |
| Address | [8615] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 35 |
| Address | [8616] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 36 |
| Address | [8617] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 37 |
| Address | [8618] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 38 |
| Address | [8619] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 39 |
| Address | [8620] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 40 |
| Address | [8621] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 41 |
| Address | [8622] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 42 |
| Address | [8623] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 43 |
| Address | [8624] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 44 |
| Address | [8625] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 45 |
| Address | [8626] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 46 |
| Address | [8627] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 47 |
| Address | [8628] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 48 |
| Address | [8629] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 49 |
| Address | [8630] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 50 |
| Address | [8631] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 51 |
| Address | [8632] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 52 |
| Address | [8633] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 53 |
| Address | [8634] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 54 |
| Address | [8635] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 55 |
| Address | [8636] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 56 |
| Address | [8637] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 57 |
| Address | [8638] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 58 |
| Address | [8639] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 59 |
| Address | [8640] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 60 |
| Address | [8641] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 61 |
| Address | [8642] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 62 |
| Address | [8643] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 63 |
| Address | [8644] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

| | |
|---------------------|---|
| Variable | Validity on CANopen digital input 64 |
| Address | [8645] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activation validity (0=Never/1=Always/2=Post Starting/3= rpm & Volt Stabilized) |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | CANopenDir I33 |
| Address | [8646] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I34 |
| Address | [8647] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I35 |
| Address | [8648] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I36 |
| Address | [8649] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | CANOpenDir I37 |
| Address | [8650] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANOpenDir I38 |
| Address | [8651] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANOpenDir I39 |
| Address | [8652] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANOpenDir I40 |
| Address | [8653] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | CANOpenDir I41 |
| Address | [8654] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANOpenDir I42 |
| Address | [8655] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANOpenDir I43 |
| Address | [8656] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANOpenDir I44 |
| Address | [8657] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | CANopenDir I45 |
| Address | [8658] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I46 |
| Address | [8659] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I47 |
| Address | [8660] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I48 |
| Address | [8661] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | CANOpenDir I49 |
| Address | [8662] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANOpenDir I50 |
| Address | [8663] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANOpenDir I51 |
| Address | [8664] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANOpenDir I52 |
| Address | [8665] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | CANopenDir I53 |
| Address | [8666] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I54 |
| Address | [8667] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I55 |
| Address | [8668] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I56 |
| Address | [8669] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | CANOpenDir I57 |
| Address | [8670] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANOpenDir I58 |
| Address | [8671] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANOpenDir I59 |
| Address | [8672] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANOpenDir I60 |
| Address | [8673] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | CANopenDir I61 |
| Address | [8674] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I62 |
| Address | [8675] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I63 |
| Address | [8676] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

| | |
|---------------------|---|
| Variable | CANopenDir I64 |
| Address | [8677] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Direction of logic input Normally open or Normally closed |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenModeO33 |
| Address | [8732] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO34 |
| Address | [8733] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO35 |
| Address | [8734] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO36 |
| Address | [8735] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenModeO37 |
| Address | [8736] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO38 |
| Address | [8737] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO39 |
| Address | [8738] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO40 |
| Address | [8739] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenModeO41 |
| Address | [8740] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO42 |
| Address | [8741] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO43 |
| Address | [8742] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO44 |
| Address | [8743] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenModeO45 |
| Address | [8744] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO46 |
| Address | [8745] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO47 |
| Address | [8746] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO48 |
| Address | [8747] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenModeO49 |
| Address | [8748] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO50 |
| Address | [8749] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO51 |
| Address | [8750] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO52 |
| Address | [8751] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenModeO53 |
| Address | [8752] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO54 |
| Address | [8753] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO55 |
| Address | [8754] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO56 |
| Address | [8755] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenModeO57 |
| Address | [8756] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO58 |
| Address | [8757] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO59 |
| Address | [8758] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO60 |
| Address | [8759] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | CANopenModeO61 |
| Address | [8760] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO62 |
| Address | [8761] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO63 |
| Address | [8762] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

| | |
|---------------------|--|
| Variable | CANopenModeO64 |
| Address | [8763] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | selection of the direction of the logic output, normally energized or de-energized |

TIMERS/METERS

| | |
|---------------------|---|
| Variable | Delay before activation of the protections |
| Address | [2004] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Waiting time before activating the protections once the engine is ready. By default, the time delay is 10s, i.e. the protections will be activated 10 seconds after the stabilization in voltage of the generator which is the last phase of the engine sequence. |

| | |
|---------------------|--|
| Variable | Test mode duration |
| Address | [2016] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | This parameter allows you to set the time for which the product will remain in test mode if the limited time test mode has been activated. |

| | |
|---------------------|---|
| Variable | Waiting for deexcitation timer |
| Address | [2051] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | In the case of operation in static paralleling, if the generator circuit breaker has just opened, and the automatic control system wants to put the generator back on the busbar, either because the generator was in the stop phase and the production request has been reactivated, or because the automated system has opened the circuit breaker and is trying to close it again following the tripping of a protection configured as an electrical fault, then, if there is no voltage on the busbar, the automated system will try to de-energize the alternator for the time configured in this time delay in order to restart a static paralleling sequence. If the alternator fails to de-energize, the automated system will apply the standard sequence, without static paralleling. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Voltage stabilization timer |
| Address | [2056] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Time during which the voltage must remain stable between 95 and 105% of nominal before continuing the engine sequence. By default, the voltage must remain stable for 3s between 95 and 105% of nominal. Not to be confused with the maximum time (available in the protection pages) at the end of which the product will stop the engine if the voltage has not stabilized. |

| | |
|---------------------|--|
| Variable | Unexpected stop timer |
| Address | [2203] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | If the module measures a zero speed and no stop request has been made, the module displays a fault after this delay. |

| | |
|---------------------|--|
| Variable | Load ramp timer |
| Address | [2853] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 16000 |
| Description | This setpoint adjusts the load ramp timer, for load sharing or mains paralleling mode. In case of a battery it adjusts the discharge ramp timer. 100 % of this timer corresponds to transfer 100% of generator/power plant/battery nominal kW. For a ramp, to transfer, from 10% to 60% of nominal kW, the time will be 50% of the set timer. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Unload ramp timer |
| Address | [2856] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 16000 |
| Description | <p>This setpoint adjusts the unload ramp timer, for load sharing or mains paralleling mode.</p> <p>In case of a battery it adjusts the charge ramp timer.</p> <p>100 % of this timer corresponds to transfer 100% of generator/power plant nominal kW.</p> <p>For a ramp, to transfer, from 60% to 10% of nominal kW, the time will be 50% of the set timer.</p> |

POWER PLANT

| | |
|---------------------|--|
| Variable | Number of GENSY COMPACT PRIME |
| Address | [2000] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 32 |
| Description | Number of GENSY COMPACT PRIME on the power plant. This parameter is used for the CAN communication between products. |

| | |
|---------------------|--|
| Variable | My number |
| Address | [2001] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 1 |
| Max value | 32 |
| Description | <p>This parameter is used to define the product identifier for communication between products.</p> <p>It must be unique for each controller 'type':</p> <ul style="list-style-type: none"> - Number GENSY COMPACT from first to last (32 maximum) - Number MASTER COMPACT, MASTER COMPACT 1B and BTB COMPACT from first to last (32 maximum) - Number HYBRID COMPACT from first to last (32 maximum) - Number BAT COMPACT from first to last (max. 32) |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Connection type |
| Address | [2003] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Monophase 1: Biphase 180° 2: Triphase 120° (3 or 4 wires) 3: Triphase L1-N-L2 4: Triphase L2-N-L3 5: Triphase L3-N-L1 |
| Description | <p>This parameter is used to select the voltage system that will be applied to all the voltage sources managed by the product. 6 values can be selected:</p> <ul style="list-style-type: none"> - Single phase: Connection of one active phase and one neutral. Connect the voltages on terminals L1-N. Connect the currents on I1-IN. - Two phase 180°: Connection of 2 active phases (and an optional neutral). Connect the voltages to terminals L1-L3 (and optional N). Connect the currents to I1-I3-IN. If the neutral is not connected to the voltage terminal block, the product will calculate a virtual neutral by itself. - Three-phase 120°: Connection of 3 active phases (and an optional neutral). Connect the voltages on terminals L1-L2-L3 (and optional N). Connect the currents to I1-I2-I3-IN. If the neutral is not connected to the voltage terminal block, the product will calculate a virtual neutral by itself. - Three-phase L1-N-L2: Connection of 3 active phases and a neutral. High leg on L3, neutral between L1 and L2. The neutral must be connected. - Three-phase L2-N-L3: Connection of 3 active phases and a neutral. High leg on L1, neutral between L2 and L3. The neutral must be connected. - Three-phase L3-N-L1: Connection of 3 active phases and a neutral. High leg on L2, neutral between L3 and L1. The neutral must be connected. |

| | |
|---------------------|---|
| Variable | Number of MASTER COMPACT/BTB COMPACT |
| Address | [2017] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 32 |
| Description | <p>Number of MASTER COMPACT / MASTER COMPACT 1B / BTB (combined) on the power plant. This parameter is used for the CAN communication between products.</p> |

MODBUS TABLE

| | |
|---------------------|----------------------------|
| Variable | Segment number |
| Address | [2020] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 1 |
| Max value | 33 |
| Description | Segment number of the unit |

| | |
|---------------------|---|
| Variable | Number of HYBRID COMPACT |
| Address | [2025] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 32 |
| Description | Number of HYBRID COMPACT on the power plant. This parameter is used for the CAN communication between products. |

| | |
|---------------------|--|
| Variable | Number of BAT COMPACT |
| Address | [2030] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Number of BAT COMPACT on the power plant. This parameter is used for the CAN communication between products. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Fail to open/close breaker timer |
| Address | [2304] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 1 |
| Max value | 100 |
| Description | Circuit breaker max command delay (timer for discrepancy between command and feedback), identical for both generator circuit breaker and main circuit breaker, is generating a fault. |

| | |
|---------------------|--|
| Variable | Unexpected close/open breaker timer |
| Address | [2317] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | Timer before taking into account an unexpected change of a breaker feedback input state. |

| | |
|---------------------|---|
| Variable | Start/Stop priority criteria |
| Address | [2850] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 1: By generator number 2: By running hours 3: By custom configuration 5: By auxiliary hours |
| Description | This parameter determines which generator will be started or stopped when one of the start/stop conditions is met. 4 choices are possible: - By generator number: In this case, the automated system starts the generator with the lowest number. It stops the generator with the highest number. - By running hours: In this case, the automated system starts the generator with the lowest number of running hours. It stops the generator with the most running hours. - By custom number: Same as 'By generator number', but based on custom numbers. - By auxiliary hours: Same as 'By running hours' but based on auxiliary hours. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | kW threshold to start a generator |
| Address | [2854] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | This parameter determines the active power threshold (expressed as a % of the nominal value of the generators present on the bus) above which a generator will start in 'Start/Stop load levels' mode. |

| | |
|---------------------|---|
| Variable | kW threshold to stop a generator |
| Address | [2857] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | This parameter determines the active power threshold (expressed as a % of the nominal value of the generators present on the bus) below which a generator will stop in 'Start/Stop load levels' mode. |

| | |
|---------------------|---|
| Variable | Minimum delay between 2 openings |
| Address | [2861] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Minimum time between two load shedding requests |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Action after last opening |
| Address | [2862] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm 4: Fault (soft shutdown) 6: Fault (soft shutdown) + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|--|
| Variable | Custom number |
| Address | [2863] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 1 |
| Max value | 32 |
| Description | This parameter is used to define the custom number that the automated system will consider for this generator during a start/stop with the criteria 'Custom number'. |

| | |
|---------------------|--|
| Variable | Hour |
| Address | [2865] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1000 |
| Description | This parameter is used to determine the maximum difference that the automated system must maintain between the generator with the lowest number of running hours and the generator with the highest number of running hours. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Load dependent start/stop mode |
| Address | [2879] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Start/stop load levels 2: Reserve power (%) 3: Reserve power (kW) |
| Description | <p>This parameter activates the start/stop function according to load variations. 4 choices are possible:</p> <ul style="list-style-type: none"> - Not used: The function is not activated. - Start/stop thresholds: Generators are started/stopped according to 2 thresholds (a start threshold, a stop threshold), set as a percentage. These thresholds are compared with the actual active power, given as a percentage of nominal. This is the product history mode. - Reserve power (%): Generators are started/stopped according to 2 thresholds (a start threshold, a stop threshold), set as a percentage. The start threshold is compared with the available reserve power, given as a percentage of the nominal value of the generators and batteries producing on the bus. The stop threshold is compared with the reserve power available after a generator has stopped, given as a percentage of the nominal value of the generators and batteries producing on the bus. - Reserve power (kW): Generators are started/stopped according to 2 thresholds (a start threshold, a stop threshold), set in kW. The start threshold is compared with the available reserve power, given in kW. The stop threshold is compared with the reserve power that will be available after a generator has stopped, given in kW. <p>See technical documentation for more information.</p> |

| | |
|---------------------|---|
| Variable | Reserve power (%) threshold to start a generator |
| Address | [2880] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1000 |
| Description | <p>This parameter determines the reserve power threshold (expressed as a % of the nominal value of the generators and batteries present on the bus) below which a generator will start in 'Reserve power (%)' mode.</p> |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Reserve power (kW) threshold to start a generator |
| Address | [2881] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 32500 |
| Description | This parameter determines the reserve power threshold (expressed in kW) below which a generator will start in 'Reserve power (kW)' mode. |

| | |
|---------------------|--|
| Variable | Enable hours dependant start/stop |
| Address | [2882] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Running hours 2: Auxiliary hours |
| Description | <p>This parameter activates hours dependant start/stop to balance running hours. 3 choices are possible:</p> <ul style="list-style-type: none"> - Not used: The function is not activated. - Running hours: The generators are started/stopped in order to have a maximum difference between the generator with the least operating hours and the one with the most operating hours, corresponding to the value set in parameter 2865 'Hours'. - Auxiliary hours: Same as 'Running hours' mode, but based on auxiliary hours counters which may differ from the running hours counters. <p>Note: To alternate between 2 generators every 16 hours, set a difference of 8 hours.</p> |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Reserve power (%) threshold to stop a generator |
| Address | [2887] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1000 |
| Description | <p>This parameter is used to determine the reserve power threshold (expressed as a % of the nominal value of the generators and batteries present on the bus) above which a generator will stop in 'Reserve power (%)' mode.</p> <p>Please note that the stop threshold is compared to the reserve power that will be available after the generator has stopped (and not to the value of the reserve power at the moment when the automated system orders the generator to stop).</p> <p>The aim is to always have an available reserve power greater than the value entered in this parameter.</p> <p>Consequently, the value set for generator stop must be very close to the value set for generator start.</p> <p>The only purpose of the difference between the 2 thresholds is to create a hysteresis to prevent unwanted starts/stops in the event of load variations around the reserve power threshold.</p> |

| | |
|---------------------|--|
| Variable | Reserve power (kW) threshold to stop a generator |
| Address | [2888] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 32500 |
| Description | <p>This parameter is used to determine the reserve power threshold (expressed as kW) above which a generator will stop in 'Reserve power (kW)' mode.</p> <p>Please note that the stop threshold is compared to the reserve power that will be available after the generator has stopped (and not to the value of the reserve power at the moment when the automated system orders the generator to stop).</p> <p>The aim is to always have an available reserve power greater than the value entered in this parameter.</p> <p>Consequently, the value set for generator stop must be very close to the value set for generator start.</p> <p>The only purpose of the difference between the 2 thresholds is to create a hysteresis to prevent unwanted starts/stops in the event of load variations around the reserve power threshold.</p> |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Generators start type on powered bus |
| Address | [2892] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Start all generators 1: Start one by one |
| Description | When using a generator start/stop function and if no generators are on the bus but there is an other source on the bus, you can either decide to start all the generators at the same time or start them one by one. |

| | |
|---------------------|--|
| Variable | Generators start type on deadbus |
| Address | [2894] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Start all generators 1: Start one by one |
| Description | When using a generator start/stop function and if no source is on the bus you can either decide to start all the generators at the same time or start them one by one. |

| | |
|---------------------|-----------------------------|
| Variable | Under frequency threshold 1 |
| Address | [3700] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1000 |
| Description | First underfrequency level |

| | |
|---------------------|--|
| Variable | Under frequency threshold 2 |
| Address | [3701] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1000 |
| Description | Second underfrequency level (must be lower than level 1) |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Opening load on under frequency |
| Address | [3702] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Disabled 1: Enable |
| Description | Enables/Disables underfrequency monitoring for non-essential load shedding |

| | |
|---------------------|--------------------------|
| Variable | Maximum kW threshold 1 |
| Address | [3703] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | First overload level |

| | |
|---------------------|---|
| Variable | Maximum KW threshold 2 |
| Address | [3704] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Second overload level (must be higher than level 1) |

| | |
|---------------------|--|
| Variable | Opening of the load on maximum kW |
| Address | [3705] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Disabled 1: Enable |
| Description | Enables/Disables overload monitoring for non-essential load shedding |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Timer for threshold 1 |
| Address | [3706] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Delay before first level activation (kW and Hz) |

| | |
|---------------------|--|
| Variable | Timer for threshold 2 |
| Address | [3707] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Delay before activation of the second level (kW and Hz). Must be lower than level 1. |

GENERATOR PROTECTIONS

| | |
|---------------------|---|
| Variable | Timer Min Max Speed output |
| Address | [2389] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Control Min Max Speed output |
| Address | [2390] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Timer Min Max AVR output |
| Address | [2391] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|---|
| Variable | Control Min Max AVR output |
| Address | [2392] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Out of speed range timer |
| Address | [2393] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|---|
| Variable | Out of speed range control |
| Address | [2394] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Out of voltage range timer |
| Address | [2395] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Out of voltage range control |
| Address | [2396] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|--|
| Variable | Mismatch rotophases protection control |
| Address | [2397] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Over frequency threshold |
| Address | [2400] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Over frequency timer |
| Address | [2401] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Over frequency control |
| Address | [2402] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Under frequency threshold |
| Address | [2403] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Under frequency timer |
| Address | [2404] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Under frequency control |
| Address | [2405] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Over voltage threshold |
| Address | [2406] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Over voltage timer |
| Address | [2407] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Over voltage control |
| Address | [2408] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Under voltage threshold |
| Address | [2409] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Under voltage timer |
| Address | [2410] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Under voltage control |
| Address | [2411] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Minimum kW threshold |
| Address | [2412] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Minimum kW timer |
| Address | [2413] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Minimum kW control |
| Address | [2414] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Maximum kW threshold |
| Address | [2415] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Maximum kW timer |
| Address | [2416] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Maximum kW control |
| Address | [2417] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Reverse kW threshold |
| Address | [2418] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 1 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Reverse kW timer |
| Address | [2419] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Reverse kW control |
| Address | [2420] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Minimum kVAR threshold |
| Address | [2421] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Minimum kVAR timer |
| Address | [2422] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Minimum kVAR control |
| Address | [2423] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Maximum kVAR threshold |
| Address | [2424] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Maximum kVAR timer |
| Address | [2425] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Maximum kVAR control |
| Address | [2426] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Reverse kVAR threshold |
| Address | [2427] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 1 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Reverse kVAR timer |
| Address | [2428] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Reverse kVAR control |
| Address | [2429] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | <ul style="list-style-type: none"> 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Over current threshold |
| Address | [2430] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Over current timer |
| Address | [2431] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Over current control |
| Address | [2432] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Neutral current threshold |
| Address | [2433] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Neutral current timer |
| Address | [2434] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Neutral current control |
| Address | [2435] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Over frequency threshold 2 |
| Address | [2436] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Over frequency timer 2 |
| Address | [2437] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Over frequency control 2 |
| Address | [2438] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Under frequency threshold 2 |
| Address | [2439] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Under frequency timer 2 |
| Address | [2440] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Under frequency control 2 |
| Address | [2441] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Over voltage threshold 2 |
| Address | [2442] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Over voltage timer 2 |
| Address | [2443] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Over voltage control 2 |
| Address | [2444] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Under voltage threshold 2 |
| Address | [2445] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Under voltage timer 2 |
| Address | [2446] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Under voltage control 2 |
| Address | [2447] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | <ul style="list-style-type: none"> 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Minimum kW threshold 2 |
| Address | [2448] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Minimum kW timer 2 |
| Address | [2449] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Minimum kW control 2 |
| Address | [2450] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Maximum kW threshold 2 |
| Address | [2451] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Maximum kW timer 2 |
| Address | [2452] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Maximum kW control 2 |
| Address | [2453] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Reverse kW threshold 2 |
| Address | [2454] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 1 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Reverse kW timer 2 |
| Address | [2455] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Reverse kW control 2 |
| Address | [2456] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Minimum kVAR threshold 2 |
| Address | [2457] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Minimum kVAR timer 2 |
| Address | [2458] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Minimum kVAR control 2 |
| Address | [2459] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Maximum kVAR threshold 2 |
| Address | [2460] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Maximum kVAR timer 2 |
| Address | [2461] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Maximum kVAR control 2 |
| Address | [2462] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Reverse kVAR threshold 2 |
| Address | [2463] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 1 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Reverse kVAR timer 2 |
| Address | [2464] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Reverse kVAR control 2 |
| Address | [2465] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Over current threshold 2 |
| Address | [2466] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Over current timer 2 |
| Address | [2467] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Over current control 2 |
| Address | [2468] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Neutral current threshold 2 |
| Address | [2469] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Neutral current timer 2 |
| Address | [2470] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Neutral current control 2 |
| Address | [2471] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|--|
| Variable | Short Circuit K constant characteristic |
| Address | [2472] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Generator Current Short Circuit Protection : K constant characteristic |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Short Circuit C constant characteristic |
| Address | [2473] |
| Scale Factor | 3 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Generator Current Short Circuit Protection : C constant characteristic |

| | |
|---------------------|--|
| Variable | Short Circuit Alpha constant characteristic |
| Address | [2474] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Generator Current Short Circuit Protection : Alpha constant characteristic |

| | |
|---------------------|--|
| Variable | Short Circuit TMS (Time Multiplier Setting) |
| Address | [2475] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 1 |
| Max value | 10 |
| Description | Generator Current Short Circuit Protection : TMS (Time Multiplier Setting) constant characteristic |

| | |
|---------------------|---|
| Variable | Short Circuit Is constant |
| Address | [2476] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1000 |
| Description | Generator Current Short Circuit Protection : IS constant characteristic |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Generator Short Circuit Control |
| Address | [2477] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|--|
| Variable | Horn timer |
| Address | [2478] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Duration of activation of the horn which is activated each time an alarm or fault occurs on the product. The value 0 means that the horn will sound until the alarms/ faults on the product are manually acknowledged. |

| | |
|---------------------|---|
| Variable | Earth fault threshold |
| Address | [2479] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Earth fault timer |
| Address | [2480] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Earth fault control |
| Address | [2481] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Earth fault threshold 2 |
| Address | [2482] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Earth fault timer 2 |
| Address | [2483] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Earth fault control 2 |
| Address | [2484] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Earth Current CT ratio |
| Address | [2485] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 1 |
| Max value | 32500 |
| Description | Earth Current Transformers Ratio. CT must be connected to J5 for earth fault measurement. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Voltage unbalance threshold |
| Address | [2486] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Voltage unbalance timer |
| Address | [2487] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Voltage unbalance control |
| Address | [2488] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Voltage unbalance threshold 2 |
| Address | [2489] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Voltage unbalance timer 2 |
| Address | [2490] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Voltage unbalance control 2 |
| Address | [2491] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Current unbalance threshold |
| Address | [2492] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Current unbalance timer |
| Address | [2493] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Current unbalance control |
| Address | [2494] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Current unbalance threshold 2 |
| Address | [2495] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Current unbalance timer 2 |
| Address | [2496] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Current unbalance control 2 |
| Address | [2497] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | <ul style="list-style-type: none"> 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Curve type |
| Address | [2498] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: IEC Inverse 1: IEC Very Inverse 2: IEC Extremely Inverse 3: IEEE Moderately Inverse 4: IEEE Very Inverse 5: IEEE Extremely Inverse 6: Custom |
| Description | Different standard short circuit protection curves can be chosen: - 0: IEC Inverse - 1: IEC Very Inverse - 2: IEC Extremely Inverse - 3: IEEE Moderately Inverse - 4: IEEE Very Inverse - 5: IEEE Extremely Inverse - 6: Custom Note: The short circuit protection parameters can only be modified if 'Custom' is selected. |

| | |
|---------------------|---|
| Variable | Threshold uneven kW |
| Address | [3708] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Timer uneven kW |
| Address | [3709] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Control uneven kW |
| Address | [3710] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Threshold uneven kVAR |
| Address | [3711] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Timer uneven kVAR |
| Address | [3712] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Control uneven kVAR |
| Address | [3713] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Rotophase activation direction (0 = Indirect, 1 = Direct) |
| Address | [8500] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Indirect 1: Direct |
| Description | This setpoint define wich direction of rotophase will activate rotophase protection. If the setpoint is on direct then the action of variables 8500 will activate if voltage phases are plugged on a direct direction. If the setpoint is on indirect then the action of variables 8500 will activate if voltage phases are plugged on an indirect direction. |

| | |
|---------------------|--|
| Variable | Rotophase protection control |
| Address | [8501] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

BUS PROTECTIONS

| | |
|---------------------|---|
| Variable | Over frequency threshold |
| Address | [2500] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Over frequency timer |
| Address | [2501] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Over frequency control |
| Address | [2502] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | <ul style="list-style-type: none"> 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Under frequency threshold |
| Address | [2503] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Under frequency timer |
| Address | [2504] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Under frequency control |
| Address | [2505] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Over voltage threshold |
| Address | [2506] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Over voltage timer |
| Address | [2507] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Over voltage control |
| Address | [2508] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Under voltage threshold |
| Address | [2509] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Under voltage timer |
| Address | [2510] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Under voltage control |
| Address | [2511] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | <ul style="list-style-type: none"> 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Over frequency threshold 2 |
| Address | [2530] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Over frequency timer 2 |
| Address | [2531] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Over frequency control 2 |
| Address | [2532] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Under frequency threshold 2 |
| Address | [2533] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Under frequency timer 2 |
| Address | [2534] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Under frequency control 2 |
| Address | [2535] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Over voltage threshold 2 |
| Address | [2536] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Over voltage timer 2 |
| Address | [2537] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Over voltage control 2 |
| Address | [2538] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Under voltage threshold 2 |
| Address | [2539] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Under voltage timer 2 |
| Address | [2540] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|--|
| Variable | Under voltage control 2 |
| Address | [2541] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Voltage unbalance threshold |
| Address | [2565] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Voltage unbalance timer |
| Address | [2566] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|---|
| Variable | Voltage unbalance control |
| Address | [2567] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 9: Mains electrical fault |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Voltage unbalance threshold 2 |
| Address | [2568] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Voltage unbalance timer 2 |
| Address | [2569] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|---|
| Variable | Voltage unbalance control 2 |
| Address | [2570] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 9: Mains electrical fault |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Bus Bar measure error inhibition |
| Address | [2571] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: Yes |
| Description | Enable/Disable "Bus bars measure error" Alarm : This alarm is active when any genset of the power plant is operating, circuit breaker closed, and there is no voltage on Bus Bar measurement |

| | |
|---------------------|--|
| Variable | Rotophase activation direction (0 = Indirect, 1 = Direct) |
| Address | [2584] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Indirect 1: Direct |
| Description | This setpoint define wich direction of rotophase will activate rotophase protection If the setpoint is on direct then the action of variables 2584 will activate if voltage phases are plugged on a direct direction. If the setpoint is on indirect then the action of variables 2584 will activate if voltage phases are plugged on an indirect direction. |

| | |
|---------------------|---|
| Variable | Rotophase protection control |
| Address | [2585] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 9: Mains electrical fault |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

ENGINE PROTECTIONS

| | |
|---------------------|---|
| Variable | Over speed threshold |
| Address | [2350] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Over speed timer |
| Address | [2351] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|---|
| Variable | Over speed control |
| Address | [2352] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Under speed threshold |
| Address | [2353] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Under speed timer |
| Address | [2354] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|---|
| Variable | Under speed control |
| Address | [2355] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Min. voltage battery threshold |
| Address | [2356] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 350 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Min. voltage battery timer |
| Address | [2357] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|---|
| Variable | Min. voltage battery control |
| Address | [2358] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Max. voltage battery threshold |
| Address | [2359] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 350 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Max. voltage battery timer |
| Address | [2360] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|---|
| Variable | Max. voltage battery control |
| Address | [2361] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Oil pressure threshold |
| Address | [2362] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Oil pressure timer |
| Address | [2363] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Oil pressure control |
| Address | [2364] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Water temperature threshold |
| Address | [2365] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Water temperature timer |
| Address | [2366] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Water temperature control |
| Address | [2367] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Over speed threshold 2 |
| Address | [2368] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Over speed timer 2 |
| Address | [2369] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Over speed control 2 |
| Address | [2370] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Under speed threshold 2 |
| Address | [2371] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 2000 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Under speed timer 2 |
| Address | [2372] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Under speed control 2 |
| Address | [2373] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Min. voltage battery threshold 2 |
| Address | [2374] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 350 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Min. voltage battery timer 2 |
| Address | [2375] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Min. voltage battery control 2 |
| Address | [2376] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Max. voltage battery threshold 2 |
| Address | [2377] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 350 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Max. voltage battery timer 2 |
| Address | [2378] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|---|
| Variable | Max. voltage battery control 2 |
| Address | [2379] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Oil pressure threshold 2 |
| Address | [2380] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Oil pressure timer 2 |
| Address | [2381] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|---|
| Variable | Oil pressure control 2 |
| Address | [2382] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Water temperature threshold 2 |
| Address | [2383] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Water temperature timer 2 |
| Address | [2384] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer defining how long the value should exceed the treshold before triggering the control associated to this protection. |

| | |
|---------------------|---|
| Variable | Water temperature control 2 |
| Address | [2385] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Low threshold boost battery |
| Address | [2386] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 350 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | High threshold boost battery |
| Address | [2387] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 350 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|--|
| Variable | Control boost battery |
| Address | [2388] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: Yes |
| Description | This setpoint activate the boost battery function. This function activate the boost battery output with a low threshold (variable 2386) of the battery voltage and deactivate the output with high threshold (variable 2387). |

| | |
|---------------------|---|
| Variable | Analog input 1 threshold |
| Address | [2600] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Analog input 1 timer |
| Address | [2601] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|--|
| Variable | Analog input 1 control |
| Address | [2602] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Analog input 1 threshold 2 |
| Address | [2603] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Analog input 1 timer 2 |
| Address | [2604] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|--|
| Variable | Analog input 1 control 2 |
| Address | [2605] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Direction analog input 1 protection |
| Address | [2606] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Minimum 1: Maximum |
| Description | This setpoint define if the both threshold level for analog input 1 are minimum or maximum limit. If the setpoint is on "Minimum" then the action of variables 2602 and 2605 will activate from thresholds level set and below. If the setpoint is on "Maximum" then the action of variables 2602 and 2605 will activate from thresholds level set and above. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Analog input 2 threshold |
| Address | [2608] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Analog input 2 timer |
| Address | [2609] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|--|
| Variable | Analog input 2 control |
| Address | [2610] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Analog input 2 threshold 2 |
| Address | [2611] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Analog input 2 timer 2 |
| Address | [2612] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|--|
| Variable | Analog input 2 control 2 |
| Address | [2613] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Direction analog input 2 protection |
| Address | [2614] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Minimum 1: Maximum |
| Description | This setpoint define if the both threshold level for analog input 2 are minimum or maximum limit. If the setpoint is on "Minimum" then the action of vaiables 2610 and 2613 will activate from thresholds level set and below. If the setpoint is on "Maximum" then the action of vaiables 2610 and 2613 will activate from thresholds level set and above. |

| | |
|---------------------|---|
| Variable | Analog input 3 threshold |
| Address | [2616] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Analog input 3 timer |
| Address | [2617] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Analog input 3 control |
| Address | [2618] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Analog input 3 threshold 2 |
| Address | [2619] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

| | |
|---------------------|---|
| Variable | Analog input 3 timer 2 |
| Address | [2620] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Threshold to be exceeded to trigger the associated control for this protection. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Analog input 3 control 2 |
| Address | [2621] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 1: Generator electrical fault 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help 7: Generator electrical fault + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Direction analog input 3 protection |
| Address | [2622] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Minimum 1: Maximum |
| Description | This setpoint define if the both threshold level for analog input 3 are minimum or maximum limit. If the setpoint is on "Minimum" then the action of variables 2618 and 2621 will activate from thresholds level set and below. If the setpoint is on "Maximum" then the action of variables 2618 and 2621 will activate from thresholds level set and above. |

| | |
|---------------------|---|
| Variable | Control on Combined Alarm Yellow |
| Address | [3121] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Control on Combined Alarm Red |
| Address | [3122] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm 4: Fault (soft shutdown) 5: Security (hard shutdown) 6: Fault (soft shutdown) + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

COMMUNICATION

| | |
|---------------------|--|
| Variable | Inhibition remote start from CAN |
| Address | [2018] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: Yes |
| Description | Allows a unit to ignore a remote start request coming from another product connected via CAN |

| | |
|---------------------|---|
| Variable | Starting on loss of communication with MASTER COMPACT |
| Address | [2019] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: Yes |
| Description | This parameter only affects the product in applications with one or more MASTER COMPACT / MASTER COMPACT 1B. It determines the behaviour of the product when the MASTER COMPACT / MASTER COMPACT 1B no longer sends a frame on the CAN bus (power failure or other problems). For applications with BTB COMPACT, the product will only act according to this parameter if the MASTER COMPACT / MASTER COMPACT 1B that no longer sends a frame is in the same segment. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Starting on loss of communication with BAT COMPACT |
| Address | [2046] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: Yes |
| Description | This parameter only affects the product in applications with one or more BAT COMPACT. It determines the behaviour of the product when the BAT COMPACT no longer sends a frame on the CAN bus (power failure or other problems). For applications with BTB COMPACT the product will only act according to this parameter if the BAT COMPACT is within the same segment. |

| | |
|---------------------|--|
| Variable | Control on Modbus server timeouts |
| Address | [3030] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm 4: Fault (soft shutdown) 6: Fault (soft shutdown) + Help |
| Description | Control on TCP connection loss or frame timeout with Modbus server |

| | |
|---------------------|---|
| Variable | Enable connection to Modbus server |
| Address | [3031] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: Yes |
| Description | Enable connection to a Modbus server for custom read/write requests |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Modbus server frame timeout |
| Address | [3032] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Timeout in ms for no response to a frame emitted from the Modbus server |

| | |
|---------------------|---|
| Variable | CAN 1 baud rate |
| Address | [3050] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 125: 125 kBit/s 250: 250 kBit/s 500: 500 kBit/s 1000: 1000 kBit/s |
| Description | CAN bus speed 1: - Used for communication between products with the proprietary CRE protocol (Only for communicating products). - Used for the connection of inputs/outputs with the CANopen protocol when the MTU MDEC protocol is activated on CAN 2 (Only for products with engine control). Higher speed results in a reduction of the maximum bus distance. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | CAN 2 baud rate |
| Address | [3051] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 125: 125 kBit/s 250: 250 kBit/s 500: 500 kBit/s 1000: 1000 kBit/s |
| Description | <p>CAN bus speed 2:</p> <ul style="list-style-type: none"> - Used for connecting inputs/outputs with the CANopen protocol (Except when using the MDEC protocol, in which case the CANopen inputs/outputs must be connected to CAN 1). If the J1939 protocol is disabled, this parameter determines the communication speed of the CAN 2 bus. - Used for the communication between the product and the ECU with the J1939 protocol (Only for products with engine control). When the J1939 protocol is enabled, the CAN 2 bus speed is forced to 250kb/s. This parameter will not impact the bus speed. - Used for the communication between the product and the ECU with the MDEC protocol (Only for products with engine control). When the MDEC protocol is enabled, the CAN 2 bus speed is forced to 125kb/s. This parameter will not impact the bus speed. <p>A higher speed results in a reduction of the maximum bus distance.</p> |

| | |
|---------------------|---|
| Variable | Control on controllers communication fault |
| Address | [3052] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm 4: Fault (soft shutdown) 8: Droop Hz/V + Alarm 10: Droop Hz only + Alarm |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Control on missing GENSYS COMPACT PRIME on CAN bus |
| Address | [3054] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm 4: Fault (soft shutdown) 8: Droop Hz/V + Alarm |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Control on missing MASTER COMPACT/BTB COMPACT on CAN bus |
| Address | [3057] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm 4: Fault (soft shutdown) 8: Droop Hz/V + Alarm |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Control on ECU error |
| Address | [3058] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm 4: Fault (soft shutdown) 6: Fault (soft shutdown) + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Control on CANopen error |
| Address | [3059] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm 4: Fault (soft shutdown) 6: Fault (soft shutdown) + Help |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Control on missing HYBRID COMPACT on CAN bus |
| Address | [3060] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm 4: Fault (soft shutdown) 8: Droop Hz/V + Alarm 10: Droop Hz only + Alarm |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

| | |
|---------------------|---|
| Variable | Control on missing BAT COMPACT on CAN bus |
| Address | [3061] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Unused 3: Alarm 4: Fault (soft shutdown) 8: Droop Hz/V + Alarm 10: Droop Hz only + Alarm |
| Description | Action performed on protection's trigger. Actions' description is available in the technical documentation. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Timer before ECU error |
| Address | [3116] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | Timer before triggering the CAN error related to the communication between the controller and the ECU/ECM. |

| | |
|---------------------|--|
| Variable | Enable J1939 sniffer |
| Address | [3119] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Off 1: All received frames 2: Frames from ECU address only 3: All emitted frames 4: All frames |
| Description | This parameter enables the J1939 frame sniffer. 5 choices are possible: - Off : No frame is recorded - All received frames : Only the frames received by the module are recorded. - Frames of the ECU address only : Only the frames whose identifier is the one indicated in the ECU ID parameter are recorded. - All transmitted frames: Only the frames transmitted by the module are recorded. - All the frames : All the frames are recorded, those sent by the module, those received by the module. The recording starts as soon as the selection is different from Off. Switch the parameter to Off to stop recording. |

| | |
|---------------------|--|
| Variable | TSC1 Message counter |
| Address | [3123] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: Yes |
| Description | This parameter is used to integrate the message counter into the TSC1 speed frame. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | TSC1 Message checksum |
| Address | [3124] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: Yes |
| Description | This parameter is used to integrate the message checksum into the TSC1 speed frame. |

| | |
|---------------------|--------------------------|
| Variable | CANopen error timer |
| Address | [3152] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 65535 |
| Description | CANopen error timer |

SAVED USER VARIABLES

| | |
|---------------------|--|
| Variable | Saved var. 1 (Customisable) |
| Address | [8000] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Saved var. 2 (Customisable) |
| Address | [8001] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 3 (Customisable) |
| Address | [8002] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 4 (Customisable) |
| Address | [8003] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Saved var. 5 (Customisable) |
| Address | [8004] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 6 (Customisable) |
| Address | [8005] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 7 (Customisable) |
| Address | [8006] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Saved var. 8 (Customisable) |
| Address | [8007] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 9 (Customisable) |
| Address | [8008] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 10 (Customisable) |
| Address | [8009] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Saved var. 11 (Customisable) |
| Address | [8010] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 12 (Customisable) |
| Address | [8011] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 13 (Customisable) |
| Address | [8012] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Saved var. 14 (Customisable) |
| Address | [8013] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 15 (Customisable) |
| Address | [8014] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 16 (Customisable) |
| Address | [8015] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Saved var. 17 (Customisable) |
| Address | [8016] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 18 (Customisable) |
| Address | [8017] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 19 (Customisable) |
| Address | [8018] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Saved var. 20 (Customisable) |
| Address | [8019] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 21 (Customisable) |
| Address | [8020] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 22 (Customisable) |
| Address | [8021] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Saved var. 23 (Customisable) |
| Address | [8022] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 24 (Customisable) |
| Address | [8023] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 25 (Customisable) |
| Address | [8024] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Saved var. 26 (Customisable) |
| Address | [8025] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 27 (Customisable) |
| Address | [8026] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 28 (Customisable) |
| Address | [8027] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Saved var. 29 (Customisable) |
| Address | [8028] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 30 (Customisable) |
| Address | [8029] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 31 (Customisable) |
| Address | [8030] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Saved var. 32 (Customisable) |
| Address | [8031] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 33 (Customisable) |
| Address | [8032] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 34 (Customisable) |
| Address | [8033] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Saved var. 35 (Customisable) |
| Address | [8034] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 36 (Customisable) |
| Address | [8035] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 37 (Customisable) |
| Address | [8036] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Saved var. 38 (Customisable) |
| Address | [8037] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 39 (Customisable) |
| Address | [8038] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 40 (Customisable) |
| Address | [8039] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Saved var. 41 (Customisable) |
| Address | [8040] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 42 (Customisable) |
| Address | [8041] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 43 (Customisable) |
| Address | [8042] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Saved var. 44 (Customisable) |
| Address | [8043] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 45 (Customisable) |
| Address | [8044] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 46 (Customisable) |
| Address | [8045] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Saved var. 47 (Customisable) |
| Address | [8046] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 48 (Customisable) |
| Address | [8047] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Saved var. 49 (Customisable) |
| Address | [8048] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Saved var. 50 (Customisable) |
| Address | [8049] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

UNSAVED USER VARIABLES

| | |
|---------------------|--|
| Variable | Unsaved var.1 (Customisable) |
| Address | [8050] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.2 (Customisable) |
| Address | [8051] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Unsaved var.3 (Customisable) |
| Address | [8052] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.4 (Customisable) |
| Address | [8053] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.5 (Customisable) |
| Address | [8054] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Unsaved var.6 (Customisable) |
| Address | [8055] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.7 (Customisable) |
| Address | [8056] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.8 (Customisable) |
| Address | [8057] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Unsaved var.9 (Customisable) |
| Address | [8058] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.10 (Customisable) |
| Address | [8059] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.11 (Customisable) |
| Address | [8060] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Unsaved var.12 (Customisable) |
| Address | [8061] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.13 (Customisable) |
| Address | [8062] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.14 (Customisable) |
| Address | [8063] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Unsaved var.15 (Customisable) |
| Address | [8064] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.16 (Customisable) |
| Address | [8065] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.17 (Customisable) |
| Address | [8066] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Unsaved var.18 (Customisable) |
| Address | [8067] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.19 (Customisable) |
| Address | [8068] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.20 (Customisable) |
| Address | [8069] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Unsaved var.21 (Customisable) |
| Address | [8070] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.22 (Customisable) |
| Address | [8071] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.23 (Customisable) |
| Address | [8072] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Unsaved var.24 (Customisable) |
| Address | [8073] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.25 (Customisable) |
| Address | [8074] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.26 (Customisable) |
| Address | [8075] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Unsaved var.27 (Customisable) |
| Address | [8076] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.28 (Customisable) |
| Address | [8077] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.29 (Customisable) |
| Address | [8078] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Unsaved var.30 (Customisable) |
| Address | [8079] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.31 (Customisable) |
| Address | [8080] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.32 (Customisable) |
| Address | [8081] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Unsaved var.33 (Customisable) |
| Address | [8082] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.34 (Customisable) |
| Address | [8083] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.35 (Customisable) |
| Address | [8084] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Unsaved var.36 (Customisable) |
| Address | [8085] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.37 (Customisable) |
| Address | [8086] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.38 (Customisable) |
| Address | [8087] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Unsaved var.39 (Customisable) |
| Address | [8088] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.40 (Customisable) |
| Address | [8089] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.41 (Customisable) |
| Address | [8090] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Unsaved var.42 (Customisable) |
| Address | [8091] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.43 (Customisable) |
| Address | [8092] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.44 (Customisable) |
| Address | [8093] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Unsaved var.45 (Customisable) |
| Address | [8094] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.46 (Customisable) |
| Address | [8095] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.47 (Customisable) |
| Address | [8096] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Unsaved var.48 (Customisable) |
| Address | [8097] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.49 (Customisable) |
| Address | [8098] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

| | |
|---------------------|--|
| Variable | Unsaved var.50 (Customisable) |
| Address | [8099] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Can be used to store data (via Modbus or J1939), to store temporary calculations (via Easyflex), to trigger alarms or faults, etc... |

SYSTEM

| | |
|---------------------|---|
| Variable | Power on mode |
| Address | [2012] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Manual 1: Test 2: Auto |
| Description | This parameter is used to select the mode of the product when the power supply is applied. 3 values can be used : - Manual : The product will switch-on on Manual mode - Test : The product will switch-on on Test mode - Auto : The product will switch-on on Auto mode |

| | |
|---------------------|--|
| Variable | Test mode operation |
| Address | [2014] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: On load 1: Off load 2: On load with timer |
| Description | This parameter is used to select the actions for test mode on the product. 3 values can be used : - On load : The generator(s) start(s) and the breaker(s) close(s) to take the load. - Off load : The generator(s) start(s) but the breaker does not close. - On load with timer :The generator start, run without load during a configurable timer, and the breaker closes. |

| | |
|---------------------|--|
| Variable | Limited time test mode |
| Address | [2015] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: Yes |
| Description | This parameter is used to activate an operation delay in test mode. During this timer, the test mode is activated. At the end of this timer, the product will be forced on auto mode and the generator will stop if there is no active remote start. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Synchronization & Load sharing only |
| Address | [2024] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: Yes |
| Description | <p>This parameter determines if the product should process only synchronization and kW/kVAR management. 2 values can be selected:</p> <ul style="list-style-type: none"> - No: Standard operation of the product with management of the faults when the feedback of the circuit breakers is not in conformity with the orders of the product, management of the engine. - Yes: Circuit-breaker faults are not managed, which leaves more flexibility in sequences when circuit-breaker close/open commands are given by a PLC. The engine sequence is not managed. The product will start the synchronization sequence if voltage and frequency are between 95% and 105% of nominal and a digital input configured as 'Remote start on load' is activated. The kW management function is activated as soon as a digital input configured as 'Generator breaker feedback' is activated. In this operating mode, the product can only be used in automatic mode. |

| | |
|---------------------|---|
| Variable | Static paralleling |
| Address | [2050] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: Yes |
| Description | <p>This parameter is used to enable static paralleling. 2 values can be selected:</p> <ul style="list-style-type: none"> - No: Standard operation <ul style="list-style-type: none"> 1/ Generator starts with its excitation. 2/ Breaker closes with or without synchronization depending of the voltage on the busbar. - Yes: Static paralleling is activated <ul style="list-style-type: none"> 1/ Breaker(s) close(s). 2/ Generator(s) start(s) without excitation. 3/ Excitation is activated (on all generators at the same time in case of a power-plant). |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Speed governor amplitude |
| Address | [2205] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1000 |
| Description | <p>This parameter determines the amplitude of the speed output.</p> <p>Speed output voltage = Speed output offset + (Speed correction * Speed output amplitude).</p> <p>Ex: If the speed output offset is 5V and the amplitude is 2.5V, the speed output may vary between a minimum correction of 2.5V (5V + 2.5V) and a maximum correction of 7.5V (5V - 2.5V).</p> <p>On a 50Hz application, this parameter must be set to obtain a minimum correction of 47.5Hz and a maximum correction of 52.5Hz.</p> <p>On a 60Hz application, this parameter should be set to obtain a minimum correction of 57.5Hz and a maximum correction of 62.5Hz.</p> <p>In manual mode:</p> <ul style="list-style-type: none"> - Use the shift + up arrow combination in the speed control page to increase the speed correction. - Use the shift + down arrow in the speed control page to decrease the speed correction. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Speed governor offset |
| Address | [2206] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -1000 |
| Max value | 1000 |
| Description | <p>This parameter determines the speed output offset.</p> <p>Speed output voltage = Speed output offset + (Speed correction * Speed output amplitude).</p> <p>Ex: If the speed output offset is 5V and the amplitude is 2.5V, the speed output may vary between a minimum correction of 2.5V (5V + 2.5V) and a maximum correction of 7.5V (5V - 2.5V).</p> <p>On a 50Hz application, this parameter should be set to 50Hz when there is no correction.</p> <p>On a 60Hz application, this parameter should be set to 60Hz when there is no correction.</p> <p>In manual mode:</p> <ul style="list-style-type: none"> - Use the shift + up arrow combination in the speed control page to increase the speed correction. - Use the shift + down arrow in the speed control page to decrease the speed correction. |

| | |
|---------------------|--|
| Variable | Analog output 1 operating mode |
| Address | [2213] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | <p>Analog output 1 operating mode :</p> <ul style="list-style-type: none"> - Standard use, select this mode to control a speed governor (value 0). - Spare analog output, set the desired voltage value to the analog output in variable 2214 (value 1). |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Custom setpoint analog output 1 |
| Address | [2214] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -1000 |
| Max value | 1000 |
| Description | The value sets in this variable corresponds to the voltage applied to the analog 1 output if the analog output is used as a spare output. |

| | |
|---------------------|---|
| Variable | AVR Amplitude |
| Address | [2251] |
| Scale Factor | 2 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1000 |
| Description | <p>This parameter determines the amplitude of the voltage output.</p> <p>Voltage output = Voltage output offset + (Voltage correction * Voltage output amplitude).</p> <p>Ex : If the voltage output offset is 5V and the amplitude is 2.5V, the voltage output can vary between a minimum correction of 2.5V (5V + 2.5V) and a maximum correction of 7.5V (5V - 2.5V).</p> <p>On a 400V application, this parameter must be set to obtain a minimum correction of 370V and a maximum correction of 430V.</p> <p>In manual mode:</p> <ul style="list-style-type: none"> - Use the shift + up arrow combination in the AVR control page to increase the voltage correction. - Use the combination shift + down arrow in the AVR control page to decrease the voltage correction. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | AVR Offset |
| Address | [2252] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -1000 |
| Max value | 1000 |
| Description | <p>This parameter determines the offset of the voltage output.</p> <p>Voltage output = Voltage output offset + (Voltage correction * Voltage output amplitude).</p> <p>Ex : If the voltage output offset is 5V and the amplitude is 2.5V, the voltage output can vary between a minimum correction of 2.5V (5V + 2.5V) and a maximum correction of 7.5V (5V - 2.5V).</p> <p>On a 400V application, this parameter must be set to obtain 400V when there is no correction.</p> <p>In manual mode:</p> <ul style="list-style-type: none"> - Use the shift + up arrow combination in the AVR control page to increase the voltage correction. - Use the combination shift + down arrow in the AVR control page to decrease the voltage correction. |

| | |
|---------------------|--|
| Variable | Analog output 2 operating mode |
| Address | [2255] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | <p>Analog output 2 operating mode :</p> <ul style="list-style-type: none"> - Standard use, select this mode to control an AVR (value 0). - Spare analog output, set the desired voltage value to the analog output in variable 2256 (value 1). |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Custom setpoint analog output 2 |
| Address | [2256] |
| Scale Factor | 2 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -1000 |
| Max value | 1000 |
| Description | The value sets in this variable corresponds to the voltage applied to the analog 2 output if the analog output is used as a spare output. |

| | |
|---------------------|---------------------------------|
| Variable | Screensaver timeout |
| Address | [3551] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 120 |
| Description | Timeout Screen saver (0=infini) |

| | |
|---------------------|------------------------------|
| Variable | Backlight timeout |
| Address | [3552] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 120 |
| Description | Timeout Backlight (0=infini) |

| | |
|---------------------|--------------------------|
| Variable | LCD screen contrast |
| Address | [3554] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | LCD contrast intensity |

MODBUS TABLE

| | |
|---------------------|--------------------------|
| Variable | LCD screen backlight |
| Address | [3555] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 100 |
| Description | LCD backlight intensity |

| | |
|---------------------|-----------------------------------|
| Variable | Variable 1 to log |
| Address | [3600] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10299 |
| Description | Logger of the variable to archive |

| | |
|---------------------|-----------------------------------|
| Variable | Variable 2 to log |
| Address | [3601] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10299 |
| Description | Logger of the variable to archive |

| | |
|---------------------|-----------------------------------|
| Variable | Variable 3 to log |
| Address | [3602] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10299 |
| Description | Logger of the variable to archive |

MODBUS TABLE

| | |
|---------------------|-----------------------------------|
| Variable | Variable 4 to log |
| Address | [3603] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10299 |
| Description | Logger of the variable to archive |

| | |
|---------------------|-----------------------------------|
| Variable | Variable 5 to log |
| Address | [3604] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10299 |
| Description | Logger of the variable to archive |

| | |
|---------------------|-----------------------------------|
| Variable | Variable 6 to log |
| Address | [3605] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10299 |
| Description | Logger of the variable to archive |

| | |
|---------------------|-----------------------------------|
| Variable | Variable 7 to log |
| Address | [3606] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10299 |
| Description | Logger of the variable to archive |

MODBUS TABLE

| | |
|---------------------|-----------------------------------|
| Variable | Variable 8 to log |
| Address | [3607] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10299 |
| Description | Logger of the variable to archive |

| | |
|---------------------|-----------------------------------|
| Variable | Variable 9 to log |
| Address | [3608] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10299 |
| Description | Logger of the variable to archive |

| | |
|---------------------|-----------------------------------|
| Variable | Variable 10 to log |
| Address | [3609] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 10299 |
| Description | Logger of the variable to archive |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Activation |
| Address | [3610] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Off 1: Always ON 2: Post starting 3: Stabilized |
| Description | Archiving mode OFF = NEVER / ALWAYS / POST STARTING / STABILIZED, event archiving can be activated depending on engine status. Warning: erase will delete all faults, alarms and archived data. |

| | |
|---------------------|---|
| Variable | Erase logger |
| Address | [3611] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | Erase log (Automatically set to 0 after erase). |

| | |
|---------------------|---|
| Variable | Logging period variable 1 |
| Address | [3612] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 1 |
| Max value | 9999 |
| Description | Time in second of interval between each archiving |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Logging period variable 2 |
| Address | [3613] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 1 |
| Max value | 9999 |
| Description | Time in second of interval between each archiving |

| | |
|---------------------|---|
| Variable | Logging period variable 3 |
| Address | [3614] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 1 |
| Max value | 9999 |
| Description | Time in second of interval between each archiving |

| | |
|---------------------|---|
| Variable | Logging period variable 4 |
| Address | [3615] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 1 |
| Max value | 9999 |
| Description | Time in second of interval between each archiving |

| | |
|---------------------|---|
| Variable | Logging period variable 5 |
| Address | [3616] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 1 |
| Max value | 9999 |
| Description | Time in second of interval between each archiving |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Logging period variable 6 |
| Address | [3617] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 1 |
| Max value | 9999 |
| Description | Time in second of interval between each archiving |

| | |
|---------------------|---|
| Variable | Logging period variable 7 |
| Address | [3618] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 1 |
| Max value | 9999 |
| Description | Time in second of interval between each archiving |

| | |
|---------------------|---|
| Variable | Logging period variable 8 |
| Address | [3619] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 1 |
| Max value | 9999 |
| Description | Time in second of interval between each archiving |

| | |
|---------------------|---|
| Variable | Logging period variable 9 |
| Address | [3620] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 1 |
| Max value | 9999 |
| Description | Time in second of interval between each archiving |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Logging period variable 10 |
| Address | [3621] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 1 |
| Max value | 9999 |
| Description | Time in second of interval between each archiving |

| | |
|---------------------|--|
| Variable | Log variable 1 on |
| Address | [3622] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Value change 1: Interval |
| Description | A variable can be logged in two different ways: - Interval: The variable will be logged at specific intervals, defined by the user ([3612]) - Value change: The variable will be logged each time the value of the variable has been changed |

| | |
|---------------------|---|
| Variable | Log variable 2 on |
| Address | [3623] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Value change 1: Interval |
| Description | A variable can be logged in two different ways: - Interval: The variable will be logged at a periodic interval, defined by the user ([3613]) - Value change: The variable will be logged each time the value of the variable has been changed |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Log variable 3 on |
| Address | [3624] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Value change 1: Interval |
| Description | A variable can be logged in two different ways: - Interval: The variable will be logged at a periodic interval, defined by the user ([3614]) - Value change: The variable will be logged each time the value of the variable has been changed |

| | |
|---------------------|---|
| Variable | Log variable 4 on |
| Address | [3625] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Value change 1: Interval |
| Description | A variable can be logged in two different ways: - Interval: The variable will be logged at a periodic interval, defined by the user ([3615]) - Value change: The variable will be logged each time the value of the variable has been changed |

| | |
|---------------------|---|
| Variable | Log variable 5 on |
| Address | [3626] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Value change 1: Interval |
| Description | A variable can be logged in two different ways: - Interval: The variable will be logged at a periodic interval, defined by the user ([3616]) - Value change: The variable will be logged each time the value of the variable has been changed |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Log variable 6 on |
| Address | [3627] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Value change 1: Interval |
| Description | A variable can be logged in two different ways: - Interval: The variable will be logged at a periodic interval, defined by the user ([3617]) - Value change: The variable will be logged each time the value of the variable has been changed |

| | |
|---------------------|---|
| Variable | Log variable 7 on |
| Address | [3628] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Value change 1: Interval |
| Description | A variable can be logged in two different ways: - Interval: The variable will be logged at a periodic interval, defined by the user ([3618]) - Value change: The variable will be logged each time the value of the variable has been changed |

| | |
|---------------------|---|
| Variable | Log variable 8 on |
| Address | [3629] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Value change 1: Interval |
| Description | A variable can be logged in two different ways: - Interval: The variable will be logged at a periodic interval, defined by the user ([3619]) - Value change: The variable will be logged each time the value of the variable has been changed |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Log variable 9 on |
| Address | [3630] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Value change 1: Interval |
| Description | A variable can be logged in two different ways: - Interval: The variable will be logged at a periodic interval, defined by the user ([3620]) - Value change: The variable will be logged each time the value of the variable has been changed |

| | |
|---------------------|---|
| Variable | Log variable 10 on |
| Address | [3631] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Value change 1: Interval |
| Description | A variable can be logged in two different ways: - Interval: The variable will be logged at a periodic interval, defined by the user ([3621]) - Value change: The variable will be logged each time the value of the variable has been changed |

| | |
|---------------------|-----------------------------------|
| Variable | Record power up |
| Address | [8300] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: Yes |
| Description | Records controller power up event |

MODBUS TABLE

| | |
|---------------------|--------------------------------------|
| Variable | Record engine status (Start/Stop) |
| Address | [8301] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: Yes |
| Description | Records engine start and stop events |

| | |
|---------------------|---|
| Variable | Record circuit breaker status (Open/Closed) |
| Address | [8303] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: Yes |
| Description | Records breaker closing and opening events |

| | |
|---------------------|--|
| Variable | Record operating mode |
| Address | [8304] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: Yes |
| Description | Records controller mode switching events (automatic, test, manual) |

HYSTERESIS

| | |
|---------------------|--|
| Variable | Enable Hysteresis 1 |
| Address | [2657] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: Yes |
| Description | Enable hysteresis on analog input 1 with thresholds E2660 (Low Level) & E2663 (High Level) |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Enable Hysteresis 2 |
| Address | [2658] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: Yes |
| Description | Enable hysteresis on analog input 2 with thresholds E2661 (Low Level) & E2664 (High Level) |

| | |
|---------------------|--|
| Variable | Enable Hysteresis 3 |
| Address | [2659] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: Yes |
| Description | Enable hysteresis on analog input 3 with thresholds E2662 (Low Level) & E2665 (High Level) |

| | |
|---------------------|---|
| Variable | Low level threshold |
| Address | [2660] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Low level threshold for digital output activation on hysteresis 1 |

| | |
|---------------------|---|
| Variable | Low level threshold |
| Address | [2661] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Low level threshold for digital output activation on hysteresis 2 |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Low level threshold |
| Address | [2662] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | Low level threshold for digital output activation on hysteresis 3 |

| | |
|---------------------|--|
| Variable | High level threshold |
| Address | [2663] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | High level threshold for digital output activation on hysteresis 1 |

| | |
|---------------------|--|
| Variable | High level threshold |
| Address | [2664] |
| Scale Factor | 1 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | High level threshold for digital output activation on hysteresis 2 |

| | |
|---------------------|--|
| Variable | High level threshold |
| Address | [2665] |
| Scale Factor | 0 |
| Type | Signed integer 16 bits |
| Read/Write | Read/Write |
| Min value | -32768 |
| Max value | 32767 |
| Description | High level threshold for digital output activation on hysteresis 3 |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Timer on low level threshold |
| Address | [2666] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer before set/reset digital output on hysteresis low threshold 1 |

| | |
|---------------------|---|
| Variable | Timer on low level threshold |
| Address | [2667] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer before set/reset digital output on hysteresis low threshold 2 |

| | |
|---------------------|---|
| Variable | Timer on low level threshold |
| Address | [2668] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer before set/reset digital output on hysteresis low threshold 3 |

| | |
|---------------------|--|
| Variable | Timer on high level threshold |
| Address | [2669] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer before set/reset digital output on hysteresis high threshold 1 |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Timer on high level threshold |
| Address | [2670] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer before set/reset digital output on hysteresis high threshold 2 |

| | |
|---------------------|--|
| Variable | Timer on high level threshold |
| Address | [2671] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | Timer before set/reset digital output on hysteresis high threshold 3 |

| | |
|---------------------|---|
| Variable | Hysteresis Direction 1 |
| Address | [2672] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Set on low threshold, reset on high threshold 1: Set on high threshold, reset on low threshold |
| Description | Hysteresis 1 Direction (0 : Set on low thresh. - Reset on high thresh. / 1 : Set on high thresh. - Reset on low thresh) |

| | |
|---------------------|---|
| Variable | Hysteresis Direction 2 |
| Address | [2673] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Set on low threshold, reset on high threshold 1: Set on high threshold, reset on low threshold |
| Description | Hysteresis 2 Direction (0 : Set on low thresh. - Reset on high thresh. / 1 : Set on high thresh. - Reset on low thresh) |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Hysteresis Direction 3 |
| Address | [2674] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Set on low threshold, reset on high threshold 1: Set on high threshold, reset on low threshold |
| Description | Hysteresis 3 Direction (0 : Set on low thresh. - Reset on high thresh. / 1 : Set on high thresh. - Reset on low thresh) |

| | |
|---------------------|---|
| Variable | Hysteresis 1 enable for digital input |
| Address | [2769] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: Yes |
| Description | <p>This parameter enables the first hysteresis function on logic threshold to be activated.</p> <p>To do this:</p> <ul style="list-style-type: none"> - Configure a digital input as 'Hysteresis low threshold DI1' and wire the hysteresis low threshold logic signal to this input. - Configure a digital input as 'Hysteresis high threshold DI1' and wire the hysteresis high threshold logic signal to this input. - Configure a digital output as 'Hysteresis output activation on DI1' and wire this output to the hysteresis control - Select the direction of activation/deactivation of the control |

| | |
|---------------------|--|
| Variable | Hysteresis 2 enable for digital input |
| Address | [2770] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: Yes |
| Description | <p>This parameter enables the second hysteresis function on logic threshold to be activated.</p> <p>To do this:</p> <ul style="list-style-type: none"> - Configure a digital input as 'Hysteresis low threshold DI2' and wire the hysteresis low threshold logic signal to this input. - Configure a digital input as 'Hysteresis high threshold DI2' and wire the hysteresis high threshold logic signal to this input. - Configure a digital output as 'Hysteresis output activation on DI2' and wire this output to the hysteresis control - Select the direction of activation/deactivation of the control |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Hysteresis 3 enable for digital input |
| Address | [2771] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: Yes |
| Description | <p>This parameter enables the third hysteresis function on logic threshold to be activated.</p> <p>To do this:</p> <ul style="list-style-type: none"> - Configure a digital input as 'Hysteresis low threshold DI3' and wire the hysteresis low threshold logic signal to this input. - Configure a digital input as 'Hysteresis high threshold DI3' and wire the hysteresis high threshold logic signal to this input. - Configure a digital output as 'Hysteresis output activation on DI3' and wire this output to the hysteresis control - Select the direction of activation/deactivation of the control |

| | |
|---------------------|--|
| Variable | Hysteresis 4 enable for digital input |
| Address | [2772] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: Yes |
| Description | <p>This parameter enables the fourth hysteresis function on logic threshold to be activated.</p> <p>To do this:</p> <ul style="list-style-type: none"> - Configure a digital input as 'Hysteresis low threshold DI4' and wire the hysteresis low threshold logic signal to this input. - Configure a digital input as 'Hysteresis high threshold DI4' and wire the hysteresis high threshold logic signal to this input. - Configure a digital output as 'Hysteresis output activation on DI4' and wire this output to the hysteresis control - Select the direction of activation/deactivation of the control |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Hysteresis 5 enable for digital input |
| Address | [2773] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: Yes |
| Description | <p>This parameter enables the fifth hysteresis function on logic threshold to be activated.</p> <p>To do this:</p> <ul style="list-style-type: none"> - Configure a digital input as 'Hysteresis low threshold DI5' and wire the hysteresis low threshold logic signal to this input. - Configure a digital input as 'Hysteresis high threshold DI5' and wire the hysteresis high threshold logic signal to this input. - Configure a digital output as 'Hysteresis output activation on DI5' and wire this output to the hysteresis control - Select the direction of activation/deactivation of the control |

| | |
|---------------------|---|
| Variable | Hysteresis 6 enable for digital input |
| Address | [2774] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: Yes |
| Description | <p>This parameter enables the sixth hysteresis function on logic threshold to be activated.</p> <p>To do this:</p> <ul style="list-style-type: none"> - Configure a digital input as 'Hysteresis low threshold DI6' and wire the hysteresis low threshold logic signal to this input. - Configure a digital input as 'Hysteresis high threshold DI6' and wire the hysteresis high threshold logic signal to this input. - Configure a digital output as 'Hysteresis output activation on DI6' and wire this output to the hysteresis control - Select the direction of activation/deactivation of the control |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Hysteresis 7 enable for digital input |
| Address | [2775] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: Yes |
| Description | <p>This parameter enables the seventh hysteresis function on logic threshold to be activated.</p> <p>To do this:</p> <ul style="list-style-type: none"> - Configure a digital input as 'Hysteresis low threshold DI7' and wire the hysteresis low threshold logic signal to this input. - Configure a digital input as 'Hysteresis high threshold DI7' and wire the hysteresis high threshold logic signal to this input. - Configure a digital output as 'Hysteresis output activation on DI7' and wire this output to the hysteresis control - Select the direction of activation/deactivation of the control |

| | |
|---------------------|--|
| Variable | Hysteresis 8 enable for digital input |
| Address | [2776] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: No 1: Yes |
| Description | <p>This parameter enables the eighth hysteresis function on logic threshold to be activated.</p> <p>To do this:</p> <ul style="list-style-type: none"> - Configure a digital input as 'Hysteresis low threshold DI8' and wire the hysteresis low threshold logic signal to this input. - Configure a digital input as 'Hysteresis high threshold DI8' and wire the hysteresis high threshold logic signal to this input. - Configure a digital output as 'Hysteresis output activation on DI8' and wire this output to the hysteresis control - Select the direction of activation/deactivation of the control |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Timer ON hysteresis 1 |
| Address | [2777] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | This parameter allows to set the time between the moment when the activation threshold is reached and the moment when the command is activated. |

| | |
|---------------------|---|
| Variable | Timer ON hysteresis 2 |
| Address | [2778] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | This parameter allows to set the time between the moment when the activation threshold is reached and the moment when the command is activated. |

| | |
|---------------------|---|
| Variable | Timer ON hysteresis 3 |
| Address | [2779] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | This parameter allows to set the time between the moment when the activation threshold is reached and the moment when the command is activated. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Timer ON hysteresis 4 |
| Address | [2780] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | This parameter allows to set the time between the moment when the activation threshold is reached and the moment when the command is activated. |

| | |
|---------------------|---|
| Variable | Timer ON hysteresis 5 |
| Address | [2781] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | This parameter allows to set the time between the moment when the activation threshold is reached and the moment when the command is activated. |

| | |
|---------------------|---|
| Variable | Timer ON hysteresis 6 |
| Address | [2782] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | This parameter allows to set the time between the moment when the activation threshold is reached and the moment when the command is activated. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Timer ON hysteresis 7 |
| Address | [2783] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | This parameter allows to set the time between the moment when the activation threshold is reached and the moment when the command is activated. |

| | |
|---------------------|---|
| Variable | Timer ON hysteresis 8 |
| Address | [2784] |
| Scale Factor | 1 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 9999 |
| Description | This parameter allows to set the time between the moment when the activation threshold is reached and the moment when the command is activated. |

| | |
|---------------------|---|
| Variable | Direction hysteresis 1 |
| Address | [2785] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Set on low threshold, reset on high threshold 1: Set on high threshold, reset on low threshold |
| Description | This parameter allows to set the direction in which the hysteresis should work. 2 choices are possible: - Activate the command when the low threshold is active and deactivate it when the high threshold is active - Activate the command when the high threshold is active and deactivate it when the low threshold is active |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Direction hysteresis 2 |
| Address | [2786] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Set on low threshold, reset on high threshold 1: Set on high threshold, reset on low threshold |
| Description | This parameter allows to set the direction in which the hysteresis should work. 2 choices are possible: - Activate the command when the low threshold is active and deactivate it when the high threshold is active - Activate the command when the high threshold is active and deactivate it when the low threshold is active |

| | |
|---------------------|---|
| Variable | Direction hysteresis 3 |
| Address | [2787] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Set on low threshold, reset on high threshold 1: Set on high threshold, reset on low threshold |
| Description | This parameter allows to set the direction in which the hysteresis should work. 2 choices are possible: - Activate the command when the low threshold is active and deactivate it when the high threshold is active - Activate the command when the high threshold is active and deactivate it when the low threshold is active |

| | |
|---------------------|---|
| Variable | Direction hysteresis 4 |
| Address | [2788] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Set on low threshold, reset on high threshold 1: Set on high threshold, reset on low threshold |
| Description | This parameter allows to set the direction in which the hysteresis should work. 2 choices are possible: - Activate the command when the low threshold is active and deactivate it when the high threshold is active - Activate the command when the high threshold is active and deactivate it when the low threshold is active |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Direction hysteresis 5 |
| Address | [2789] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Set on low threshold, reset on high threshold 1: Set on high threshold, reset on low threshold |
| Description | This parameter allows to set the direction in which the hysteresis should work. 2 choices are possible: - Activate the command when the low threshold is active and deactivate it when the high threshold is active - Activate the command when the high threshold is active and deactivate it when the low threshold is active |

| | |
|---------------------|---|
| Variable | Direction hysteresis 6 |
| Address | [2790] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Set on low threshold, reset on high threshold 1: Set on high threshold, reset on low threshold |
| Description | This parameter allows to set the direction in which the hysteresis should work. 2 choices are possible: - Activate the command when the low threshold is active and deactivate it when the high threshold is active - Activate the command when the high threshold is active and deactivate it when the low threshold is active |

| | |
|---------------------|---|
| Variable | Direction hysteresis 7 |
| Address | [2791] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Set on low threshold, reset on high threshold 1: Set on high threshold, reset on low threshold |
| Description | This parameter allows to set the direction in which the hysteresis should work. 2 choices are possible: - Activate the command when the low threshold is active and deactivate it when the high threshold is active - Activate the command when the high threshold is active and deactivate it when the low threshold is active |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Direction hysteresis 8 |
| Address | [2792] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| List | 0: Set on low threshold, reset on high threshold 1: Set on high threshold, reset on low threshold |
| Description | This parameter allows to set the direction in which the hysteresis should work. 2 choices are possible: - Activate the command when the low threshold is active and deactivate it when the high threshold is active - Activate the command when the high threshold is active and deactivate it when the low threshold is active |

DIGITAL INPUT FUNCTIONS

GENERATOR

| | |
|---------------------|--|
| Variable | Generator breaker feedback |
| Address | [4501] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Breaker position feedback, when active the breaker is considered closed. |

| | |
|---------------------|---|
| Variable | Remote start on load |
| Address | [4502] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Activation will start generator in automatic mode and close the generator breaker on load. If Load dependant start stop is used this input must remain active all the time to allow load dependent start stop to manage start/stop sequences. |

| | |
|---------------------|---|
| Variable | Generator ready |
| Address | [4523] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | <p>To be used only if the external start sequence is activated, and to indicate to the automated system when motor speed stability must be checked.</p> <p>If this function is not used during an external start sequence, the generator switches to speed stabilization check as soon as speed exceeds 95% of nominal.</p> <p>If this function is used during an external start sequence, the generator switches to speed stabilization check as soon as this input is activated.</p> <p>If the input is declared and missing while the generator is on load, a critical fault will be triggered.</p> <p>If the input is declared and missing while the generator is starting, a start fault will be triggered after the corresponding time delay.</p> |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Start inhibition |
| Address | [4524] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Prevents engine from starting, input will block start sequence only if active before starting demand. |

| | |
|---------------------|---|
| Variable | Override (NFE37312) |
| Address | [4610] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Override mode: will disable all configured protections of the controller except : Over-speed, Emergency stop and short-circuit. Other fault will be displayed as alarm dedicated override running hours counter will be incremented in override mode. |

| | |
|---------------------|--|
| Variable | Remote start off load |
| Address | [4611] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Activation will start generator(s) in automatic mode and keep breaker open: used for off load tests. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Remote start with timer |
| Address | [4612] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Activation starts the generator(s) in automatic mode and waits for an adjustable delay until the generator(s) are ready before closing the circuit breaker. Used to extend the start sequence and preheat the generator(s) at nominal frequency. |

ENGINE

| | |
|---------------------|--|
| Variable | Preglow request |
| Address | [4534] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Manual prestart auxiliary request, will activate the output 'Pre-start (Glow plugs & Auxiliaries)' when in manual mode |

INPUTS/OUTPUTS

| | |
|---------------------|--|
| Variable | Digital output 1 forced |
| Address | [4630] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Activating this input will force activation of digital output 1. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Digital output 2 forced |
| Address | [4631] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Activating this input will force activation of digital ouput 2. |

| | |
|---------------------|---|
| Variable | Digital output 3 forced |
| Address | [4632] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Activating this input will force activation of digital ouput 3. |

| | |
|---------------------|---|
| Variable | Digital output 4 forced |
| Address | [4633] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Activating this input will force activation of digital ouput 4. |

| | |
|---------------------|---|
| Variable | Digital output 5 forced |
| Address | [4634] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Activating this input will force activation of digital ouput 5. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Digital output 6 forced |
| Address | [4635] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Activating this input will force activation of digital output 6. |

| | |
|---------------------|--|
| Variable | Relay 1 forced |
| Address | [4950] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activating this input will force activation of relay output 1. |

| | |
|---------------------|--|
| Variable | Relay 2 forced |
| Address | [4951] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 3 |
| Description | Activating this input will force activation of relay output 2. |

POWER PLANT

| | |
|---------------------|---|
| Variable | External non essential trip request |
| Address | [4537] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | External activation of the load shedding protection outputs. Use only if load shedding is enable. |

| | |
|---------------------|---|
| Variable | Priority generator |
| Address | [4538] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Use only when Load Dependent Start Stop is configured. This function will force the generator to start if it was waiting to stop in automatic mode. The generator will be on load as long as the input is active, and will inhibit automatic stop depending on load. |

| | |
|---------------------|---|
| Variable | Unload generator if load-dependent start-stop rules OK |
| Address | [4543] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Use only when Load Dependent Start Stop is configured. If this function is enabled, when the automated system decides to stop a generator, that generator will be stopped first. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Start all generators |
| Address | [4640] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 1 |
| Description | CAN bus broadcasted remote start. Activating this input will send a remote start on load command to all other generators of the same segment number. |

ALTERNATIVE SELECTIONS

| | |
|---------------------|--|
| Variable | Alternative selection 1 |
| Address | [4594] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Available variable to toggle a parameter between 2 values. See Alternative selection function. |

| | |
|---------------------|--|
| Variable | Alternative selection 2 |
| Address | [4595] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Available variable to toggle a parameter between 2 values. See Alternative selection function. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Alternative selection 3 |
| Address | [4596] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Available variable to toggle a parameter between 2 values. See Alternative selection function. |

| | |
|---------------------|--|
| Variable | Alternative selection 4 |
| Address | [4597] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Available variable to toggle a parameter between 2 values. See Alternative selection function. |

| | |
|---------------------|--|
| Variable | Alternative selection 5 |
| Address | [4598] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Available variable to toggle a parameter between 2 values. See Alternative selection function. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Alternative selection 6 |
| Address | [4599] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Available variable to toggle a parameter between 2 values. See Alternative selection function. |

| | |
|---------------------|--|
| Variable | Alternative selection 7 |
| Address | [4600] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Available variable to toggle a parameter between 2 values. See Alternative selection function. |

| | |
|---------------------|--|
| Variable | Alternative selection 8 |
| Address | [4601] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Available variable to toggle a parameter between 2 values. See Alternative selection function. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Alternative selection 9 |
| Address | [4602] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Available variable to toggle a parameter between 2 values. See Alternative selection function. |

| | |
|---------------------|--|
| Variable | Alternative selection 10 |
| Address | [4603] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Available variable to toggle a parameter between 2 values. See Alternative selection function. |

| | |
|---------------------|--|
| Variable | Alternative selection 11 |
| Address | [4604] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Available variable to toggle a parameter between 2 values. See Alternative selection function. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Alternative selection 12 |
| Address | [4605] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Available variable to toggle a parameter between 2 values. See Alternative selection function. |

| | |
|---------------------|--|
| Variable | Alternative selection 13 |
| Address | [4606] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Available variable to toggle a parameter between 2 values. See Alternative selection function. |

| | |
|---------------------|--|
| Variable | Alternative selection 14 |
| Address | [4607] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | 14th available variable to switch a parameter between 2 values |

| | |
|---------------------|--|
| Variable | Alternative selection 15 |
| Address | [4608] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | 15th available variable to switch a parameter between 2 values |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Alternative selection 16 |
| Address | [4609] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | 16th available variable to switch a parameter between 2 values |

HYSTERESIS

| | |
|---------------------|---|
| Variable | Hysteresis low threshold DI1 |
| Address | [4614] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Activate to trigger the corresponding hysteresis low threshold. |

| | |
|---------------------|---|
| Variable | Hysteresis low threshold DI2 |
| Address | [4615] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Activate to trigger the corresponding hysteresis low threshold. |

| | |
|---------------------|---|
| Variable | Hysteresis low threshold DI3 |
| Address | [4616] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Activate to trigger the corresponding hysteresis low threshold. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Hysteresis low threshold DI4 |
| Address | [4617] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Activate to trigger the corresponding hysteresis low threshold. |

| | |
|---------------------|---|
| Variable | Hysteresis low threshold DI5 |
| Address | [4618] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Activate to trigger the corresponding hysteresis low threshold. |

| | |
|---------------------|---|
| Variable | Hysteresis low threshold DI6 |
| Address | [4619] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Activate to trigger the corresponding hysteresis low threshold. |

| | |
|---------------------|---|
| Variable | Hysteresis low threshold DI7 |
| Address | [4620] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Activate to trigger the corresponding hysteresis low threshold. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Hysteresis low threshold DI8 |
| Address | [4621] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Activate to trigger the corresponding hysteresis low threshold. |

| | |
|---------------------|--|
| Variable | Hysteresis high threshold DI1 |
| Address | [4622] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Activate to trigger the corresponding hysteresis high threshold. |

| | |
|---------------------|--|
| Variable | Hysteresis high threshold DI2 |
| Address | [4623] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Activate to trigger the corresponding hysteresis high threshold. |

| | |
|---------------------|--|
| Variable | Hysteresis high threshold DI3 |
| Address | [4624] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Activate to trigger the corresponding hysteresis high threshold. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Hysteresis high threshold DI4 |
| Address | [4625] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Activate to trigger the corresponding hysteresis high threshold. |

| | |
|---------------------|--|
| Variable | Hysteresis high threshold DI5 |
| Address | [4626] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Activate to trigger the corresponding hysteresis high threshold. |

| | |
|---------------------|--|
| Variable | Hysteresis high threshold DI6 |
| Address | [4627] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Activate to trigger the corresponding hysteresis high threshold. |

| | |
|---------------------|--|
| Variable | Hysteresis high threshold DI7 |
| Address | [4628] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Activate to trigger the corresponding hysteresis high threshold. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Hysteresis high threshold DI8 |
| Address | [4629] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Activate to trigger the corresponding hysteresis high threshold. |

REMOTE BUTTONS

| | |
|---------------------|---|
| Variable | Remote faults reset |
| Address | [4506] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | External reset. Acknowledgement of alarm/fault present in display pages (same action as shift+I reset). |

| | |
|---------------------|--|
| Variable | Manual start request |
| Address | [4509] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Manual start command (alternative to front panel push button). Active in manual mode only. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Manual stop request |
| Address | [4510] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Manual stop command (alternative to front panel push button). Active in manual mode only. |

| | |
|---------------------|---|
| Variable | Manual mode request |
| Address | [4511] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Force controller in manual mode, same effect as MAN button. |

| | |
|---------------------|--|
| Variable | Manual mode inhibition |
| Address | [4512] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Prevent controller to go in manual mode (Remotely or front panel). |

| | |
|---------------------|--|
| Variable | Auto mode request |
| Address | [4513] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Force controller in auto mode, same effect as AUTO button. |

MODBUS TABLE

| | |
|---------------------|---|
| Variable | Increase speed in manual mode |
| Address | [4514] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Remote frequency increase request in manual mode with circuit breaker open (alternative to front panel button). |

| | |
|---------------------|--|
| Variable | Decrease speed in manual mode |
| Address | [4515] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Remote frequency decrease request in manual mode with circuit breaker open (alternative to front panel button) |

| | |
|---------------------|--|
| Variable | Increase voltage in manual mode |
| Address | [4516] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Remote voltage increase request in manual mode with circuit breaker open (alternative to front panel button) |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Decrease voltage in manual mode |
| Address | [4517] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Remote voltage decrease request in manual mode with circuit breaker open (alternative to front panel button) |

| | |
|---------------------|--|
| Variable | Generator breaker opening in manual mode |
| Address | [4518] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Remote manual opening of generator breaker in manual mode (alternative to front button). Active in manual mode only. |

| | |
|---------------------|--|
| Variable | Generator breaker closing in manual mode |
| Address | [4520] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Remote manual close of generator breaker in manual mode (alternative to front button). Active in manual mode only. |

MODBUS TABLE

| | |
|---------------------|--|
| Variable | Stop horn |
| Address | [4530] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | External horn stop request. Used when Horn output is configured. |

| | |
|---------------------|---|
| Variable | Led test |
| Address | [4580] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Activates all LEDs of the module in order to check that the LEDs work |

| | |
|---------------------|--|
| Variable | Test mode request |
| Address | [4590] |
| Scale Factor | 0 |
| Type | Unsigned integer 16 bits |
| Read/Write | Read/Write |
| Min value | 0 |
| Max value | 15 |
| Description | Force controller in test mode, same effect as TEST button. |

BITFIELDS

INPUTS/OUTPUTS

| | |
|--------------------|---|
| Variable | Physical status of digital input 1 |
| Address | [953.0] |
| Type | Bitfield 16 bits |
| Description | Physical state of the digital input (without application of polarity, validity and time delays) |

| | |
|--------------------|---|
| Variable | Physical status of digital input 2 |
| Address | [953.1] |
| Type | Bitfield 16 bits |
| Description | Physical state of the digital input (without application of polarity, validity and time delays) |

| | |
|--------------------|---|
| Variable | Physical status of digital input 3 |
| Address | [953.2] |
| Type | Bitfield 16 bits |
| Description | Physical state of the digital input (without application of polarity, validity and time delays) |

| | |
|--------------------|---|
| Variable | Physical status of digital input 4 |
| Address | [953.3] |
| Type | Bitfield 16 bits |
| Description | Physical state of the digital input (without application of polarity, validity and time delays) |

| | |
|--------------------|---|
| Variable | Physical status of digital input 5 |
| Address | [953.4] |
| Type | Bitfield 16 bits |
| Description | Physical state of the digital input (without application of polarity, validity and time delays) |

MODBUS TABLE

| | |
|--------------------|---|
| Variable | Physical status of digital input 6 |
| Address | [953.5] |
| Type | Bitfield 16 bits |
| Description | Physical state of the digital input (without application of polarity, validity and time delays) |

| | |
|--------------------|---|
| Variable | Physical status of digital input 7 |
| Address | [953.6] |
| Type | Bitfield 16 bits |
| Description | Physical state of the digital input (without application of polarity, validity and time delays) |

| | |
|--------------------|---|
| Variable | Physical status of digital input 8 |
| Address | [953.7] |
| Type | Bitfield 16 bits |
| Description | Physical state of the digital input (without application of polarity, validity and time delays) |

| | |
|--------------------|---|
| Variable | Physical status of digital input 9 |
| Address | [953.8] |
| Type | Bitfield 16 bits |
| Description | Physical state of the digital input (without application of polarity, validity and time delays) |

| | |
|--------------------|---|
| Variable | Digital input 1 |
| Address | [954.0] |
| Type | Bitfield 16 bits |
| Description | Physical status of digital inputs (including analog inputs converted in digital): 1 = Input connected to negative, 0 = Input not connected. Check documentation for complete list |

| | |
|--------------------|------------------|
| Variable | Digital input 2 |
| Address | [954.1] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|------------------|
| Variable | Digital input 3 |
| Address | [954.2] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|------------------|
| Variable | Digital input 4 |
| Address | [954.3] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|------------------|
| Variable | Digital input 5 |
| Address | [954.4] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|------------------|
| Variable | Digital input 6 |
| Address | [954.5] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|------------------|
| Variable | Digital input 7 |
| Address | [954.6] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|------------------|
| Variable | Digital input 8 |
| Address | [954.7] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|------------------|
| Variable | Digital input 9 |
| Address | [954.8] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|---------------------------------------|
| Variable | Analog input 1 setup as digital input |
| Address | [954.9] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------------------|
| Variable | Analog input 2 setup as digital input |
| Address | [954.10] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------------------|
| Variable | Analog input 3 setup as digital input |
| Address | [954.11] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Digital output 1 |
| Address | [957.0] |
| Type | Bitfield 16 bits |
| Description | Physical status of digital outputs/relay : 1 = powered or closed, 0 = open. Check documentation for complete list |

| | |
|--------------------|------------------|
| Variable | Digital output 2 |
| Address | [957.1] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|------------------|
| Variable | Digital output 3 |
| Address | [957.2] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|------------------|
| Variable | Digital output 4 |
| Address | [957.3] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|------------------|
| Variable | Digital output 5 |
| Address | [957.4] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|------------------|
| Variable | Digital output 6 |
| Address | [957.5] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|------------------|
| Variable | Relay 1 |
| Address | [957.6] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|------------------|
| Variable | Relay 2 |
| Address | [957.7] |
| Type | Bitfield 16 bits |
| Description | - |

I/O CAN BUS EXPANSION

| | |
|--------------------|--|
| Variable | CANopen digital Input 1 |
| Address | [955.0] |
| Type | Bitfield 16 bits |
| Description | Physical status of CAN Open inputs : 1 = Input conected to negative, 0 = Input not conected. Check documentation for complete list |

| | |
|--------------------|-------------------------|
| Variable | CANopen digital Input 2 |
| Address | [955.1] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|-------------------------|
| Variable | CANopen digital Input 3 |
| Address | [955.2] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|-------------------------|
| Variable | CANopen digital Input 4 |
| Address | [955.3] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|-------------------------|
| Variable | CANopen digital Input 5 |
| Address | [955.4] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|-------------------------|
| Variable | CANopen digital Input 6 |
| Address | [955.5] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|-------------------------|
| Variable | CANopen digital Input 7 |
| Address | [955.6] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|-------------------------|
| Variable | CANopen digital Input 8 |
| Address | [955.7] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|-------------------------|
| Variable | CANopen digital Input 9 |
| Address | [955.8] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 10 |
| Address | [955.9] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 11 |
| Address | [955.10] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 12 |
| Address | [955.11] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 13 |
| Address | [955.12] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 14 |
| Address | [955.13] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 15 |
| Address | [955.14] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 16 |
| Address | [955.15] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|--|
| Variable | CANopen digital Input 17 |
| Address | [956.0] |
| Type | Bitfield 16 bits |
| Description | Physical status of CAN Open inputs : 1 = Input conected to negative, 0 = Input not conected. Check documentation for complete list |

| | |
|--------------------|--------------------------|
| Variable | CANopen digital Input 18 |
| Address | [956.1] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANopen digital Input 19 |
| Address | [956.2] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANopen digital Input 20 |
| Address | [956.3] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANopen digital Input 21 |
| Address | [956.4] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANopen digital Input 22 |
| Address | [956.5] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANopen digital Input 23 |
| Address | [956.6] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 24 |
| Address | [956.7] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 25 |
| Address | [956.8] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 26 |
| Address | [956.9] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 27 |
| Address | [956.10] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 28 |
| Address | [956.11] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 29 |
| Address | [956.12] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 30 |
| Address | [956.13] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|--------------------------|
| Variable | CANopen digital Input 31 |
| Address | [956.14] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANopen digital Input 32 |
| Address | [956.15] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | CANopen digital Output 1 |
| Address | [958.0] |
| Type | Bitfield 16 bits |
| Description | Physical status of CAN Open inputs : 1 = Input connected to negative, 0 = Input not connected. Check documentation for complete list |

| | |
|--------------------|--------------------------|
| Variable | CANopen digital Output 2 |
| Address | [958.1] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANopen digital Output 3 |
| Address | [958.2] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANopen digital Output 4 |
| Address | [958.3] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANopen digital Output 5 |
| Address | [958.4] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|--------------------------|
| Variable | CANopen digital Output 6 |
| Address | [958.5] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANopen digital Output 7 |
| Address | [958.6] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANopen digital Output 8 |
| Address | [958.7] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANopen digital Output 9 |
| Address | [958.8] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 10 |
| Address | [958.9] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 11 |
| Address | [958.10] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 12 |
| Address | [958.11] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|---------------------------|
| Variable | CANOpen digital Output 13 |
| Address | [958.12] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANOpen digital Output 14 |
| Address | [958.13] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANOpen digital Output 15 |
| Address | [958.14] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANOpen digital Output 16 |
| Address | [958.15] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | CANOpen digital Output 17 |
| Address | [959.0] |
| Type | Bitfield 16 bits |
| Description | Physical status of CAN Open inputs : 1 = Input connected to negative, 0 = Input not connected. Check documentation for complete list |

| | |
|--------------------|---------------------------|
| Variable | CANOpen digital Output 18 |
| Address | [959.1] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANOpen digital Output 19 |
| Address | [959.2] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 20 |
| Address | [959.3] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 21 |
| Address | [959.4] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 22 |
| Address | [959.5] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 23 |
| Address | [959.6] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 24 |
| Address | [959.7] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 25 |
| Address | [959.8] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 26 |
| Address | [959.9] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|---------------------------|
| Variable | CANOpen digital Output 27 |
| Address | [959.10] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANOpen digital Output 28 |
| Address | [959.11] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANOpen digital Output 29 |
| Address | [959.12] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANOpen digital Output 30 |
| Address | [959.13] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANOpen digital Output 31 |
| Address | [959.14] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANOpen digital Output 32 |
| Address | [959.15] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 33 |
| Address | [978.0] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 34 |
| Address | [978.1] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 35 |
| Address | [978.2] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 36 |
| Address | [978.3] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 37 |
| Address | [978.4] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 38 |
| Address | [978.5] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 39 |
| Address | [978.6] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 40 |
| Address | [978.7] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 41 |
| Address | [978.8] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 42 |
| Address | [978.9] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 43 |
| Address | [978.10] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 44 |
| Address | [978.11] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 45 |
| Address | [978.12] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 46 |
| Address | [978.13] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 47 |
| Address | [978.14] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 48 |
| Address | [978.15] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 49 |
| Address | [979.0] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 50 |
| Address | [979.1] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 51 |
| Address | [979.2] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 52 |
| Address | [979.3] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 53 |
| Address | [979.4] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 54 |
| Address | [979.5] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 55 |
| Address | [979.6] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 56 |
| Address | [979.7] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 57 |
| Address | [979.8] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 58 |
| Address | [979.9] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 59 |
| Address | [979.10] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 60 |
| Address | [979.11] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANOpen digital Input 61 |
| Address | [979.12] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|--------------------------|
| Variable | CANopen digital Input 62 |
| Address | [979.13] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANopen digital Input 63 |
| Address | [979.14] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------|
| Variable | CANopen digital Input 64 |
| Address | [979.15] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 33 |
| Address | [980.0] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 34 |
| Address | [980.1] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 35 |
| Address | [980.2] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 36 |
| Address | [980.3] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 37 |
| Address | [980.4] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 38 |
| Address | [980.5] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 39 |
| Address | [980.6] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 40 |
| Address | [980.7] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 41 |
| Address | [980.8] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 42 |
| Address | [980.9] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 43 |
| Address | [980.10] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 44 |
| Address | [980.11] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 45 |
| Address | [980.12] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 46 |
| Address | [980.13] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 47 |
| Address | [980.14] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 48 |
| Address | [980.15] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 49 |
| Address | [981.0] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 50 |
| Address | [981.1] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 51 |
| Address | [981.2] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 52 |
| Address | [981.3] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 53 |
| Address | [981.4] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 54 |
| Address | [981.5] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 55 |
| Address | [981.6] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 56 |
| Address | [981.7] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 57 |
| Address | [981.8] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 58 |
| Address | [981.9] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 59 |
| Address | [981.10] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 60 |
| Address | [981.11] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 61 |
| Address | [981.12] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 62 |
| Address | [981.13] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 63 |
| Address | [981.14] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------|
| Variable | CANopen digital Output 64 |
| Address | [981.15] |
| Type | Bitfield 16 bits |
| Description | - |

POWER PLANT

| | |
|--------------------|--|
| Variable | Generator No.1 circuit breaker position |
| Address | [562.0] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

| | |
|--------------------|--|
| Variable | Generator No.2 circuit breaker position |
| Address | [562.1] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

| | |
|--------------------|--|
| Variable | Generator No.3 circuit breaker position |
| Address | [562.2] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

| | |
|--------------------|--|
| Variable | Generator No.4 circuit breaker position |
| Address | [562.3] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

| | |
|--------------------|--|
| Variable | Generator No.5 circuit breaker position |
| Address | [562.4] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

| | |
|--------------------|--|
| Variable | Generator No.6 circuit breaker position |
| Address | [562.5] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

MODBUS TABLE

| | |
|--------------------|--|
| Variable | Generator No.7 circuit breaker position |
| Address | [562.6] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

| | |
|--------------------|--|
| Variable | Generator No.8 circuit breaker position |
| Address | [562.7] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

| | |
|--------------------|--|
| Variable | Generator No.9 circuit breaker position |
| Address | [562.8] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

| | |
|--------------------|--|
| Variable | Generator No.10 circuit breaker position |
| Address | [562.9] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

| | |
|--------------------|--|
| Variable | Generator No.11 circuit breaker position |
| Address | [562.10] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

| | |
|--------------------|--|
| Variable | Generator No.12 circuit breaker position |
| Address | [562.11] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

| | |
|--------------------|--|
| Variable | Generator No.13 circuit breaker position |
| Address | [562.12] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

MODBUS TABLE

| | |
|--------------------|--|
| Variable | Generator No.14 circuit breaker position |
| Address | [562.13] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

| | |
|--------------------|--|
| Variable | Generator No.15 circuit breaker position |
| Address | [562.14] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

| | |
|--------------------|--|
| Variable | Generator No.16 circuit breaker position |
| Address | [562.15] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

| | |
|--------------------|--|
| Variable | Generator No.17 circuit breaker position |
| Address | [563.0] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

| | |
|--------------------|--|
| Variable | Generator No.18 circuit breaker position |
| Address | [563.1] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

| | |
|--------------------|--|
| Variable | Generator No.19 circuit breaker position |
| Address | [563.2] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

| | |
|--------------------|--|
| Variable | Generator No.20 circuit breaker position |
| Address | [563.3] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

MODBUS TABLE

| | |
|--------------------|--|
| Variable | Generator No.21 circuit breaker position |
| Address | [563.4] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

| | |
|--------------------|--|
| Variable | Generator No.22 circuit breaker position |
| Address | [563.5] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

| | |
|--------------------|--|
| Variable | Generator No.23 circuit breaker position |
| Address | [563.6] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

| | |
|--------------------|--|
| Variable | Generator No.24 circuit breaker position |
| Address | [563.7] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

| | |
|--------------------|--|
| Variable | Generator No.25 circuit breaker position |
| Address | [563.8] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

| | |
|--------------------|--|
| Variable | Generator No.26 circuit breaker position |
| Address | [563.9] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

| | |
|--------------------|--|
| Variable | Generator No.27 circuit breaker position |
| Address | [563.10] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

MODBUS TABLE

| | |
|--------------------|--|
| Variable | Generator No.28 circuit breaker position |
| Address | [563.11] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

| | |
|--------------------|--|
| Variable | Generator No.29 circuit breaker position |
| Address | [563.12] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

| | |
|--------------------|--|
| Variable | Generator No.30 circuit breaker position |
| Address | [563.13] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

| | |
|--------------------|--|
| Variable | Generator No.31 circuit breaker position |
| Address | [563.14] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

| | |
|--------------------|--|
| Variable | Generator No.32 circuit breaker position |
| Address | [563.15] |
| Type | Bitfield 16 bits |
| Description | 0 if circuit breaker opened, 1 if circuit breaker closed |

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.1 circuit breaker position |
| Address | [976.0] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

MODBUS TABLE

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.2 circuit breaker position |
| Address | [976.1] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.3 circuit breaker position |
| Address | [976.2] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.4 circuit breaker position |
| Address | [976.3] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.5 circuit breaker position |
| Address | [976.4] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.6 circuit breaker position |
| Address | [976.5] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

MODBUS TABLE

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.7 circuit breaker position |
| Address | [976.6] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.8 circuit breaker position |
| Address | [976.7] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.9 circuit breaker position |
| Address | [976.8] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.10 circuit breaker position |
| Address | [976.9] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.11 circuit breaker position |
| Address | [976.10] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

MODBUS TABLE

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.12 circuit breaker position |
| Address | [976.11] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.13 circuit breaker position |
| Address | [976.12] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.14 circuit breaker position |
| Address | [976.13] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.15 circuit breaker position |
| Address | [976.14] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.16 circuit breaker position |
| Address | [976.15] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

MODBUS TABLE

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.17 circuit breaker position |
| Address | [977.0] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.18 circuit breaker position |
| Address | [977.1] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.19 circuit breaker position |
| Address | [977.2] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.20 circuit breaker position |
| Address | [977.3] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.21 circuit breaker position |
| Address | [977.4] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

MODBUS TABLE

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.22 circuit breaker position |
| Address | [977.5] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.23 circuit breaker position |
| Address | [977.6] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.24 circuit breaker position |
| Address | [977.7] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.25 circuit breaker position |
| Address | [977.8] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.26 circuit breaker position |
| Address | [977.9] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

MODBUS TABLE

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.27 circuit breaker position |
| Address | [977.10] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.28 circuit breaker position |
| Address | [977.11] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.29 circuit breaker position |
| Address | [977.12] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.30 circuit breaker position |
| Address | [977.13] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.31 circuit breaker position |
| Address | [977.14] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

MODBUS TABLE

| | |
|--------------------|--|
| Variable | Mains/tie breaker No.32 circuit breaker position |
| Address | [977.15] |
| Type | Bitfield 16 bits |
| Description | On MASTER COMPACT 1B, 0 if circuit breaker opened, 1 if circuit breaker closed. On MASTER COMPACT, 0 if at least 1 of the 2 circuit breakers is opened, 1 if both circuit breakers are closed. On BTB COMPACT, 0 if circuit breaker opened, 1 if circuit breaker closed. |

GENERATOR PROTECTIONS

| | |
|--------------------|---|
| Variable | Over frequency level 1 active as an alarm |
| Address | [962.0] |
| Type | Bitfield 16 bits |
| Description | For Modbus reading |

| | |
|--------------------|---|
| Variable | Over frequency level 2 active as an alarm |
| Address | [962.1] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Under frequency level 1 active as an alarm |
| Address | [962.2] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Under frequency level 2 active as an alarm |
| Address | [962.3] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Over voltage level 1 active as an alarm |
| Address | [962.4] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|---|
| Variable | Over voltage level 2 active as an alarm |
| Address | [962.5] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Under voltage level 1 active as an alarm |
| Address | [962.6] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Under voltage level 2 active as an alarm |
| Address | [962.7] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------------------|
| Variable | Minimum kW level 1 active as an alarm |
| Address | [962.8] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------------------|
| Variable | Minimum kW level 2 active as an alarm |
| Address | [962.9] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------------------|
| Variable | Maximum kW level 1 active as an alarm |
| Address | [962.10] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------------------|
| Variable | Maximum kW level2 active as an alarm |
| Address | [962.11] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|---------------------------------------|
| Variable | Reverse kW level 1 active as an alarm |
| Address | [962.12] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------------------|
| Variable | Reverse kW level 2 active as an alarm |
| Address | [962.13] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Minimum kVAR level 1 active as an alarm |
| Address | [962.14] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Minimum kVAR level 2 active as an alarm |
| Address | [962.15] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Over frequency level 1 active as a fault |
| Address | [963.0] |
| Type | Bitfield 16 bits |
| Description | For Modbus reading |

| | |
|--------------------|--|
| Variable | Over frequency level 2 active as a fault |
| Address | [963.1] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Under frequency level 1 active as a fault |
| Address | [963.2] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|---|
| Variable | Under frequency level 2 active as a fault |
| Address | [963.3] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Over voltage level 1 active as a fault |
| Address | [963.4] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Over voltage level 2 active as a fault |
| Address | [963.5] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Under voltage level 1 active as a fault |
| Address | [963.6] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Under voltage level 2 active as a fault |
| Address | [963.7] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------------------|
| Variable | Minimum kW level 1 active as a fault |
| Address | [963.8] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------------------|
| Variable | Minimum kW level 2 active as a fault |
| Address | [963.9] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|--------------------------------------|
| Variable | Maximum kW level 1 active as a fault |
| Address | [963.10] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------------------|
| Variable | Maximum kW level 2 active as a fault |
| Address | [963.11] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------------------|
| Variable | Reverse kW level 1 active as a fault |
| Address | [963.12] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------------------|
| Variable | Reverse kW level 2 active as a fault |
| Address | [963.13] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Minimum kVAR level 1 active as a fault |
| Address | [963.14] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Minimum kVAR level 2 active as a fault |
| Address | [963.15] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Maximum kVAR level 1 active as an alarm |
| Address | [964.0] |
| Type | Bitfield 16 bits |
| Description | For Modbus reading |

MODBUS TABLE

| | |
|--------------------|---|
| Variable | Maximum kVAR level 2 active as an alarm |
| Address | [964.1] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Reverse kVAR level 1 active as an alarm |
| Address | [964.2] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Reverse kVAR level 2 active as an alarm |
| Address | [964.3] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Maximum current level 1 active as an alarm |
| Address | [964.4] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Maximum current level 2 active as an alarm |
| Address | [964.5] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Maximum neutral current level 1 active as an alarm |
| Address | [964.6] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Maximum neutral current level 2 active as an alarm |
| Address | [964.7] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|----------------------------------|
| Variable | Short circuit active as an alarm |
| Address | [964.8] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|------------------------------|
| Variable | Uneven kW active as an alarm |
| Address | [964.9] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------------|
| Variable | Uneven kVAR active as an alarm |
| Address | [964.10] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|----------------------------------|
| Variable | Last trip out active as an alarm |
| Address | [964.13] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Earth fault level 1 active as an alarm |
| Address | [964.14] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Earth fault level 2 active as an alarm |
| Address | [964.15] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Maximum kVAR level 1 active as a fault |
| Address | [965.0] |
| Type | Bitfield 16 bits |
| Description | For Modbus reading |

MODBUS TABLE

| | |
|--------------------|--|
| Variable | Maximum kVAR level 2 active as a fault |
| Address | [965.1] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Reverse kVAR level 1 active as a fault |
| Address | [965.2] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Reverse kVAR level 2 active as a fault |
| Address | [965.3] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Maximum current level 1 active as a fault |
| Address | [965.4] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Maximum current level 2 active as a fault |
| Address | [965.5] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Maximum neutral current level 1 active as a fault |
| Address | [965.6] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Maximum neutral current level 2 active as a fault |
| Address | [965.7] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|----------------------------------|
| Variable | Short circuit active as an alarm |
| Address | [965.8] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|-----------------------------|
| Variable | Uneven kW active as a fault |
| Address | [965.9] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|-------------------------------|
| Variable | Uneven kVAR active as a fault |
| Address | [965.10] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------------|
| Variable | Last trip out active as a fault |
| Address | [965.13] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------------------|
| Variable | Earth fault level 1 active as a fault |
| Address | [965.14] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------------------|
| Variable | Earth fault level 2 active as a fault |
| Address | [965.15] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Mismatch rotophases level 1 |
| Address | [4053.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

MODBUS TABLE

| | |
|--------------------|---|
| Variable | Mismatch rotophases level 2 |
| Address | [4053.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

| | |
|--------------------|---|
| Variable | Minimum AVR output level 1 |
| Address | [4211.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Minimum AVR output level 2 |
| Address | [4211.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

| | |
|--------------------|---|
| Variable | Maximum AVR output level 1 |
| Address | [4212.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Maximum AVR output level 2 |
| Address | [4212.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

| | |
|--------------------|---|
| Variable | Generator over frequency level 1 |
| Address | [4250.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Generator over frequency level 2 |
| Address | [4250.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

MODBUS TABLE

| | |
|--------------------|---|
| Variable | Generator under frequency level 1 |
| Address | [4251.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Generator under frequency level 2 |
| Address | [4251.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

| | |
|--------------------|---|
| Variable | Generator over voltage level 1 |
| Address | [4252.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Generator over voltage level 2 |
| Address | [4252.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

| | |
|--------------------|---|
| Variable | Generator under voltage level 1 |
| Address | [4253.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Generator under voltage level 2 |
| Address | [4253.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

| | |
|--------------------|---|
| Variable | Generator minimum KW level 1 |
| Address | [4254.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

MODBUS TABLE

| | |
|--------------------|---|
| Variable | Generator minimum KW level 2 |
| Address | [4254.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

| | |
|--------------------|---|
| Variable | Generator maximum KW level 1 |
| Address | [4255.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Generator maximum KW level 2 |
| Address | [4255.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

| | |
|--------------------|---|
| Variable | Generator reverse KW level 1 |
| Address | [4256.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Generator reverse KW level 2 |
| Address | [4256.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

| | |
|--------------------|---|
| Variable | Generator minimum KVAR level 1 |
| Address | [4257.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Generator minimum KVAR level 2 |
| Address | [4257.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

MODBUS TABLE

| | |
|--------------------|---|
| Variable | Generator maximum KVAR level 1 |
| Address | [4258.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Generator maximum KVAR level 2 |
| Address | [4258.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

| | |
|--------------------|---|
| Variable | Generator reverse KVAR level 1 |
| Address | [4259.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Generator reverse KVAR level 2 |
| Address | [4259.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

| | |
|--------------------|---|
| Variable | Generator maximum current level 1 |
| Address | [4260.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Generator maximum current level 2 |
| Address | [4260.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

| | |
|--------------------|---|
| Variable | Generator maximum neutral current level 1 |
| Address | [4261.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

MODBUS TABLE

| | |
|--------------------|---|
| Variable | Generator maximum neutral current level 2 |
| Address | [4261.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

| | |
|--------------------|---|
| Variable | Generator short-circuit level 1 |
| Address | [4262.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Generator short-circuit level 2 |
| Address | [4262.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

| | |
|--------------------|---|
| Variable | Uneven kW sharing fault level 1 |
| Address | [4263.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Uneven kW sharing fault level 2 |
| Address | [4263.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

| | |
|--------------------|---|
| Variable | Uneven kVAR sharing fault level 1 |
| Address | [4264.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Uneven kVAR sharing fault level 2 |
| Address | [4264.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

MODBUS TABLE

| | |
|--------------------|---|
| Variable | Generator earth fault current level 1 |
| Address | [4267.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Generator earth fault current level 2 |
| Address | [4267.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

| | |
|--------------------|---|
| Variable | Generator voltage unbalance level 1 |
| Address | [4268.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Generator voltage unbalance level 2 |
| Address | [4268.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

| | |
|--------------------|---|
| Variable | Generator current unbalance level 1 |
| Address | [4269.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Generator current unbalance level 2 |
| Address | [4269.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

| | |
|--------------------|---|
| Variable | Generator rotophase level 1 |
| Address | [4272.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

MODBUS TABLE

| | |
|--------------------|---|
| Variable | Generator rotophase level 2 |
| Address | [4272.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

BUS PROTECTIONS

| | |
|--------------------|---|
| Variable | Over frequency level 1 active as an alarm |
| Address | [966.0] |
| Type | Bitfield 16 bits |
| Description | For Modbus reading |

| | |
|--------------------|---|
| Variable | Over frequency level 2 active as an alarm |
| Address | [966.1] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Under frequency level 1 active as an alarm |
| Address | [966.2] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Under frequency level 2 active as an alarm |
| Address | [966.3] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Over voltage level 1 active as an alarm |
| Address | [966.4] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|---|
| Variable | Over voltage level 2 active as an alarm |
| Address | [966.5] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Under voltage level 1 active as an alarm |
| Address | [966.6] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Under voltage level 2 active as an alarm |
| Address | [966.7] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Minimum kVAR level 1 active as an alarm |
| Address | [966.14] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Minimum kVAR level 2 active as an alarm |
| Address | [966.15] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Over frequency level 1 active as a fault |
| Address | [967.0] |
| Type | Bitfield 16 bits |
| Description | For Modbus reading |

| | |
|--------------------|--|
| Variable | Over frequency level 2 active as a fault |
| Address | [967.1] |
| Type | Bitfield 16 bits |
| Description | For Modbus Readings |

MODBUS TABLE

| | |
|--------------------|---|
| Variable | Under frequency level 1 active as a fault |
| Address | [967.2] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Under frequency level 2 active as a fault |
| Address | [967.3] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Over voltage level 1 active as a fault |
| Address | [967.4] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Over voltage level 2 active as a fault |
| Address | [967.5] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Under voltage level 1 active as a fault |
| Address | [967.6] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Under voltage level 2 active as a fault |
| Address | [967.7] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Minimum kVAR level 1 active as a fault |
| Address | [967.14] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|--|
| Variable | Minimum kVAR level 2 active as a fault |
| Address | [967.15] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Bus over frequency level 1 |
| Address | [4300.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Bus over frequency level 2 |
| Address | [4300.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

| | |
|--------------------|---|
| Variable | Bus under frequency level 1 |
| Address | [4301.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Bus under frequency level 2 |
| Address | [4301.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

| | |
|--------------------|---|
| Variable | Bus over voltage level 1 |
| Address | [4302.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Bus over voltage level 2 |
| Address | [4302.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

MODBUS TABLE

| | |
|--------------------|---|
| Variable | Bus under voltage level 1 |
| Address | [4303.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Bus under voltage level 2 |
| Address | [4303.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

| | |
|--------------------|---|
| Variable | Bus voltage unbalance level 1 |
| Address | [4314.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Bus voltage unbalance level 2 |
| Address | [4314.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

| | |
|--------------------|---|
| Variable | Bus rotophase level 1 |
| Address | [4318.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Bus rotophase level 2 |
| Address | [4318.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

ENGINE PROTECTIONS

| | |
|--------------------|---|
| Variable | Engine over speed level 1 |
| Address | [4200.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Engine over speed level 2 |
| Address | [4200.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

| | |
|--------------------|---|
| Variable | Engine under speed level 1 |
| Address | [4201.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Engine under speed level 2 |
| Address | [4201.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

| | |
|--------------------|---|
| Variable | Battery minimum voltage level 1 |
| Address | [4202.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Battery minimum voltage level 2 |
| Address | [4202.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

MODBUS TABLE

| | |
|--------------------|---|
| Variable | Battery maximum voltage level 1 |
| Address | [4203.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Battery maximum voltage level 2 |
| Address | [4203.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

| | |
|--------------------|---|
| Variable | Engine minimum oil pressure level 1 |
| Address | [4204.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Engine minimum oil pressure level 2 |
| Address | [4204.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

| | |
|--------------------|---|
| Variable | Engine maximum water temperature level 1 |
| Address | [4205.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Engine maximum water temperature level 2 |
| Address | [4205.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

| | |
|--------------------|---|
| Variable | Minimum speed output level 1 |
| Address | [4209.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

MODBUS TABLE

| | |
|--------------------|---|
| Variable | Minimum speed output level 2 |
| Address | [4209.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

| | |
|--------------------|---|
| Variable | Maximum speed output level 1 |
| Address | [4210.0] |
| Type | Bitfield 16 bits |
| Description | Active when the level 1 protection triggered. |

| | |
|--------------------|---|
| Variable | Maximum speed output level 2 |
| Address | [4210.1] |
| Type | Bitfield 16 bits |
| Description | Active when the level 2 protection triggered. |

COMMUNICATION

| | |
|--------------------|------------------|
| Variable | Write date/time |
| Address | [3015.0] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------|
| Variable | Write engine meters |
| Address | [3015.1] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|-----------------------|
| Variable | Write input functions |
| Address | [3015.3] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|------------------------|
| Variable | Reading via Modbus TCP |
| Address | [3015.8] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|------------------------|
| Variable | Writing via Modbus TCP |
| Address | [3015.9] |
| Type | Bitfield 16 bits |
| Description | - |

OTHERS

| | |
|--------------------|---|
| Variable | New fault occurred: Fault LED is blinking |
| Address | [950.0] |
| Type | Bitfield 16 bits |
| Description | Bitfield about protection status of the controller: Bit 4 = 1 : Engine running Bit 3 = 1 : Alarm exist & acknowledged : Alarm LED is on Bit 2 = 1 : Fault exist & acknowledged : Fault LED is on Bit 1 = 1 : New alarm occurred : Alarm LED is blinking Bit 0 = 1 : New fault occurred : Fault LED is blinking |

| | |
|--------------------|---|
| Variable | New alarm occurred: Alarm LED is blinking |
| Address | [950.1] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|------------------------------|
| Variable | Fault exist: Fault LED is on |
| Address | [950.2] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|------------------------------|
| Variable | Alarm exist: Alarm LED is on |
| Address | [950.3] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|------------------|
| Variable | Engine running |
| Address | [950.4] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------------------|
| Variable | Overspeed level 1 active as an alarm |
| Address | [960.0] |
| Type | Bitfield 16 bits |
| Description | For Modbus reading |

| | |
|--------------------|--------------------------------------|
| Variable | Overspeed level 2 active as an alarm |
| Address | [960.1] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Under speed level 1 active as an alarm |
| Address | [960.2] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Under speed level 2 active as an alarm |
| Address | [960.3] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Battery minimum voltage level 1 active as an alarm |
| Address | [960.4] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Battery minimum voltage level 2 active as an alarm |
| Address | [960.5] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|--|
| Variable | Battery maximum voltage 1 active as an alarm |
| Address | [960.6] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Battery maximum voltage level 2 active as an alarm |
| Address | [960.7] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Minimum oil pressure level 1 active as an alarm |
| Address | [960.8] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Minimum oil pressure level 2 active as an alarm |
| Address | [960.9] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Maximum water temperature level 1 active as an alarm |
| Address | [960.10] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Maximum water temperature level 2 active as an alarm |
| Address | [960.11] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|-------------------------------------|
| Variable | Overspeed level 1 active as a fault |
| Address | [961.0] |
| Type | Bitfield 16 bits |
| Description | For Modbus reading |

MODBUS TABLE

| | |
|--------------------|-------------------------------------|
| Variable | Overspeed level 2 active as a fault |
| Address | [961.1] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------------------|
| Variable | Under speed level 1 active as a fault |
| Address | [961.2] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------------------|
| Variable | Under speed level 2 active as a fault |
| Address | [961.3] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Battery minimal voltage level 1 active as a fault |
| Address | [961.4] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Battery minimal voltage level 2 active as a fault |
| Address | [961.5] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Battery maximum voltage level 1 active as a fault |
| Address | [961.6] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Battery maximum voltage level 2 active as a fault |
| Address | [961.7] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|--|
| Variable | Minimum oil pressure level 1 active as a fault |
| Address | [961.8] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Minimum oil pressure level 2 active as a fault |
| Address | [961.9] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Maximum water temperature level 1 active as a fault |
| Address | [961.10] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Maximum water temperature level 2 active as a fault |
| Address | [961.11] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Fail to close bus breaker active as a fault |
| Address | [961.12] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Fail to open bus breaker active as a fault |
| Address | [961.13] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Bus breaker open suddently active as a fault |
| Address | [961.14] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|---|
| Variable | Bus breaker close suddently active as a fault |
| Address | [961.15] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------------------|
| Variable | J1939: DM1 protect active as an alarm |
| Address | [968.12] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|-------------------------------------|
| Variable | J1939: DM1 amber active as an alarm |
| Address | [968.13] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|-----------------------------------|
| Variable | J1939: DM1 red active as an alarm |
| Address | [968.14] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | J1939: DM1 malfunction active as an alarm |
| Address | [968.15] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------------------|
| Variable | J1939: DM1 protect active as a fault |
| Address | [969.12] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|------------------------------------|
| Variable | J1939: DM1 amber active as a fault |
| Address | [969.13] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|----------------------------------|
| Variable | J1939: DM1 red active as a fault |
| Address | [969.14] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | J1939: DM1 malfunction active as a fault |
| Address | [969.15] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Fail to synchronize active as an alarm |
| Address | [970.0] |
| Type | Bitfield 16 bits |
| Description | For Modbus reading |

| | |
|--------------------|---|
| Variable | CAN1 controllers communication fault active as an alarm |
| Address | [970.2] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Minimum/maximum analog measure 1 (level 1) active as an alarm |
| Address | [970.4] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Minimum/maximum analog measure 1 (level 2) active as an alarm |
| Address | [970.5] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Minimum/maximum analog measure 2 (level 1) active as an alarm |
| Address | [970.6] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|---|
| Variable | Minimum/maximum analog measure 2 (level 2) active as an alarm |
| Address | [970.7] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Minimum/maximum analog measure 3 (level 1) active as an alarm |
| Address | [970.8] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Minimum/maximum analog measure 3 (level 2) active as an alarm |
| Address | [970.9] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Fail to stabilize speed active as an alarm |
| Address | [970.14] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Fail to stabilize voltage active as an alarm |
| Address | [970.15] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------------------|
| Variable | Fail to synchronize active as a fault |
| Address | [971.0] |
| Type | Bitfield 16 bits |
| Description | For Modbus reading |

| | |
|--------------------|--|
| Variable | CAN1 controllers communication fault active as a fault |
| Address | [971.2] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|--|
| Variable | Minimum/maximum analog measure 1 (level 1) active as a fault |
| Address | [971.4] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Minimum/maximum analog measure 1 (level 2) active as a fault |
| Address | [971.5] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Minimum/maximum analog measure 2 (level 1) active as a fault |
| Address | [971.6] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Minimum/maximum analog measure 2 (level 2) active as a fault |
| Address | [971.7] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Minimum/maximum analog measure 3 (level 1) active as a fault |
| Address | [971.8] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Minimum/maximum analog measure 3 (level 2) active as a fault |
| Address | [971.9] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Fail to close generator breaker active as a fault |
| Address | [971.10] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|--|
| Variable | Fail to open generator breaker active as a fault |
| Address | [971.11] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Generator breaker open suddently active as a fault |
| Address | [971.12] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Generator breaker close suddently active as a fault |
| Address | [971.13] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|----------------------------------|
| Variable | CANopen error active as an alarm |
| Address | [972.0] |
| Type | Bitfield 16 bits |
| Description | For Modbus reading |

| | |
|--------------------|--------------------------------|
| Variable | J1939 error active as an alarm |
| Address | [972.1] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Overload microcontroler active as an alarm |
| Address | [972.4] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Maintenance hours n°1 active as an alarm |
| Address | [972.5] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|--|
| Variable | Maintenance hours n°2 active as an alarm |
| Address | [972.6] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Maintenance hours n°3 active as an alarm |
| Address | [972.7] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Maintenance hours n°4 active as an alarm |
| Address | [972.8] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Maintenance hours n°5 active as an alarm |
| Address | [972.9] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Maintenance days n°1 active as an alarm |
| Address | [972.10] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Maintenance days n°2 active as an alarm |
| Address | [972.11] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Maintenance days n°3 active as an alarm |
| Address | [972.12] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|---|
| Variable | Maintenance days n°4 active as an alarm |
| Address | [972.13] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Maintenance days n°5 active as an alarm |
| Address | [972.14] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------------------|
| Variable | Oil pressure fault active as a fault |
| Address | [973.0] |
| Type | Bitfield 16 bits |
| Description | For Modbus reading |

| | |
|--------------------|---|
| Variable | Coolant temperature fault active as a fault |
| Address | [973.1] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|----------------------------------|
| Variable | Emergency stop active as a fault |
| Address | [973.2] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------------|
| Variable | Fail to stop active as a fault |
| Address | [973.3] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------------------|
| Variable | Generator not ready active as a fault |
| Address | [973.4] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|---------------------------------|
| Variable | Fail to start active as a fault |
| Address | [973.5] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Generator unexpected stop active as a fault |
| Address | [973.6] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------------|
| Variable | CANopen error active as a fault |
| Address | [973.8] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|-------------------------------|
| Variable | J1939 error active as a fault |
| Address | [973.9] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | CAN1 missing MASTER active as an alarm |
| Address | [974.0] |
| Type | Bitfield 16 bits |
| Description | For Modbus reading |

| | |
|--------------------|--------------------------------------|
| Variable | Bus measure error active as an alarm |
| Address | [974.1] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Generator voltage unbalance level 1 active as an alarm |
| Address | [974.2] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|--|
| Variable | Generator voltage unbalance level 2 active as an alarm |
| Address | [974.3] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Generator current unbalance level 1 active as an alarm |
| Address | [974.4] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Generator current unbalance level 2 active as an alarm |
| Address | [974.5] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Bus voltage unbalance level 1 active as an alarm |
| Address | [974.6] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Bus voltage unbalance level 2 active as an alarm |
| Address | [974.7] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Overflow in equation active as an alarm |
| Address | [974.8] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Minimum speed output active as an alarm |
| Address | [974.9] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|---|
| Variable | Maximum speed output active as an alarm |
| Address | [974.10] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------------------|
| Variable | Minimum AVR output active as an alarm |
| Address | [974.11] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------------------|
| Variable | Maximum AVR output active as an alarm |
| Address | [974.12] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------------------|
| Variable | CAN1 missing PRIME active as an alarm |
| Address | [974.13] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | CAN1 mismatch protocol version alarm active |
| Address | [974.15] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---------------------------------------|
| Variable | CAN1 missing MASTER active as a fault |
| Address | [975.0] |
| Type | Bitfield 16 bits |
| Description | For Modbus reading |

| | |
|--------------------|---|
| Variable | Generator voltage unbalance level 1 active as a fault |
| Address | [975.2] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|---|
| Variable | Generator voltage unbalance level 2 active as a fault |
| Address | [975.3] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Generator current unbalance level 1 active as a fault |
| Address | [975.4] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Generator current unbalance level 2 active as a fault |
| Address | [975.5] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Bus voltage unbalance level 1 active as a fault |
| Address | [975.6] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|---|
| Variable | Bus voltage unbalance level 2 active as a fault |
| Address | [975.7] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Minimum speed output active as a fault |
| Address | [975.9] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--|
| Variable | Maximum speed output active as a fault |
| Address | [975.10] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|--------------------------------------|
| Variable | Minimum AVR output active as a fault |
| Address | [975.11] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------------------|
| Variable | Maximum AVR output active as a fault |
| Address | [975.12] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|--------------------------------------|
| Variable | CAN1 missing PRIME active as a fault |
| Address | [975.13] |
| Type | Bitfield 16 bits |
| Description | - |

STATUSES

| | |
|--------------------|------------------|
| Variable | Fault |
| Address | [952.0] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|------------------|
| Variable | Bus voltage |
| Address | [952.1] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|------------------|
| Variable | AUTO |
| Address | [952.2] |
| Type | Bitfield 16 bits |
| Description | - |

MODBUS TABLE

| | |
|--------------------|------------------|
| Variable | MAN |
| Address | [952.3] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|------------------|
| Variable | TEST |
| Address | [952.5] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|-------------------|
| Variable | Generator breaker |
| Address | [952.6] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|------------------|
| Variable | Alarm |
| Address | [952.7] |
| Type | Bitfield 16 bits |
| Description | - |

| | |
|--------------------|-------------------|
| Variable | Generator voltage |
| Address | [952.8] |
| Type | Bitfield 16 bits |
| Description | - |

REMOTE BUTTONS

| | |
|--------------------|--|
| Variable | Shift button |
| Address | [951.0] |
| Type | Bitfield 16 bits |
| Description | Active (1) if the button is pressed. Inactive (0) otherwise. |

MODBUS TABLE

| | |
|--------------------|--|
| Variable | Right arrow button |
| Address | [951.1] |
| Type | Bitfield 16 bits |
| Description | Active (1) if the button is pressed. Inactive (0) otherwise. |

| | |
|--------------------|--|
| Variable | Down arrow button |
| Address | [951.2] |
| Type | Bitfield 16 bits |
| Description | Active (1) if the button is pressed. Inactive (0) otherwise. |

| | |
|--------------------|--|
| Variable | Left arrow button |
| Address | [951.3] |
| Type | Bitfield 16 bits |
| Description | Active (1) if the button is pressed. Inactive (0) otherwise. |

| | |
|--------------------|--|
| Variable | Up arrow button |
| Address | [951.4] |
| Type | Bitfield 16 bits |
| Description | Active (1) if the button is pressed. Inactive (0) otherwise. |

| | |
|--------------------|--|
| Variable | Enter button |
| Address | [951.5] |
| Type | Bitfield 16 bits |
| Description | Active (1) if the button is pressed. Inactive (0) otherwise. |

| | |
|--------------------|--|
| Variable | Esc button |
| Address | [951.6] |
| Type | Bitfield 16 bits |
| Description | Active (1) if the button is pressed. Inactive (0) otherwise. |

| | |
|--------------------|--|
| Variable | Fault/Alarm/info button |
| Address | [951.7] |
| Type | Bitfield 16 bits |
| Description | Active (1) if the button is pressed. Inactive (0) otherwise. |

MODBUS TABLE

| | |
|--------------------|--|
| Variable | Generator breaker button |
| Address | [951.9] |
| Type | Bitfield 16 bits |
| Description | Active (1) if the button is pressed. Inactive (0) otherwise. |

| | |
|--------------------|--|
| Variable | Stop button |
| Address | [951.10] |
| Type | Bitfield 16 bits |
| Description | Active (1) if the button is pressed. Inactive (0) otherwise. |

| | |
|--------------------|--|
| Variable | Start button |
| Address | [951.11] |
| Type | Bitfield 16 bits |
| Description | Active (1) if the button is pressed. Inactive (0) otherwise. |

| | |
|--------------------|--|
| Variable | Man button |
| Address | [951.12] |
| Type | Bitfield 16 bits |
| Description | Active (1) if the button is pressed. Inactive (0) otherwise. |

| | |
|--------------------|--|
| Variable | Test button |
| Address | [951.13] |
| Type | Bitfield 16 bits |
| Description | Active (1) if the button is pressed. Inactive (0) otherwise. |

| | |
|--------------------|--|
| Variable | Auto button |
| Address | [951.14] |
| Type | Bitfield 16 bits |
| Description | Active (1) if the button is pressed. Inactive (0) otherwise. |

| | |
|--------------------|--|
| Variable | Shift button inhibition |
| Address | [8102.0] |
| Type | Bitfield 16 bits |
| Description | Allows to disable (1) or enable (0) the button |

MODBUS TABLE

| | |
|--------------------|--|
| Variable | Right arrow button inhibition |
| Address | [8102.1] |
| Type | Bitfield 16 bits |
| Description | Allows to disable (1) or enable (0) the button |

| | |
|--------------------|--|
| Variable | Down arrow button inhibition |
| Address | [8102.2] |
| Type | Bitfield 16 bits |
| Description | Allows to disable (1) or enable (0) the button |

| | |
|--------------------|--|
| Variable | Left arrow button inhibition |
| Address | [8102.3] |
| Type | Bitfield 16 bits |
| Description | Allows to disable (1) or enable (0) the button |

| | |
|--------------------|--|
| Variable | Up arrow button inhibition |
| Address | [8102.4] |
| Type | Bitfield 16 bits |
| Description | Allows to disable (1) or enable (0) the button |

| | |
|--------------------|--|
| Variable | Enter button inhibition |
| Address | [8102.5] |
| Type | Bitfield 16 bits |
| Description | Allows to disable (1) or enable (0) the button |

| | |
|--------------------|--|
| Variable | Esc button inhibition |
| Address | [8102.6] |
| Type | Bitfield 16 bits |
| Description | Allows to disable (1) or enable (0) the button |

| | |
|--------------------|--|
| Variable | Fault/Alarm/info button inhibition |
| Address | [8102.7] |
| Type | Bitfield 16 bits |
| Description | Allows to disable (1) or enable (0) the button |

MODBUS TABLE

| | |
|--------------------|--|
| Variable | Gen breaker button inhibition |
| Address | [8102.9] |
| Type | Bitfield 16 bits |
| Description | Allows to disable (1) or enable (0) the button |

| | |
|--------------------|--|
| Variable | Stop button inhibition |
| Address | [8102.10] |
| Type | Bitfield 16 bits |
| Description | Allows to disable (1) or enable (0) the button |

| | |
|--------------------|--|
| Variable | Start button inhibition |
| Address | [8102.11] |
| Type | Bitfield 16 bits |
| Description | Allows to disable (1) or enable (0) the button |

| | |
|--------------------|--|
| Variable | Man button inhibition |
| Address | [8102.12] |
| Type | Bitfield 16 bits |
| Description | Allows to disable (1) or enable (0) the button |

| | |
|--------------------|--|
| Variable | Test button inhibition |
| Address | [8102.13] |
| Type | Bitfield 16 bits |
| Description | Allows to disable (1) or enable (0) the button |

| | |
|--------------------|--|
| Variable | Auto button inhibition |
| Address | [8102.14] |
| Type | Bitfield 16 bits |
| Description | Allows to disable (1) or enable (0) the button |