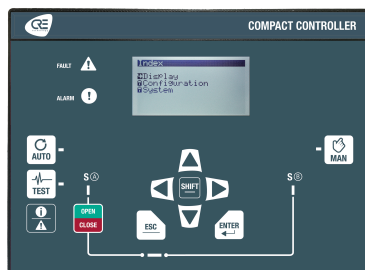# MODBUS TABLE

BTB COMPACT

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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.

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]	
[82] | [81]	
[84] | [83]	*Number of hours generator running*

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	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	Breaker closure
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.

Variable	Breaker opening
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	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.

SOURCE A

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

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

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

MODBUS TABLE

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

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

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

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

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

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

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

Variable	SA frequency
Address	[75]
Scale Factor	2
Type	Unsigned integer 16 bits
Read/Write	Read
Min value	0
Max value	10000
Description	Source A frequency

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

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)

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

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

Variable	Fail to close 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

Variable	Fail to open 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	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	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

Variable	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).

SOURCE B

Variable	SB V1
Address	[100]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read
Min value	0
Max value	65535
Description	Source B voltage neutral to phase 1

Variable	SB V2
Address	[101]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read
Min value	0
Max value	65535
Description	Source B voltage neutral to phase 2

MODBUS TABLE

Variable	SB V3
Address	[102]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read
Min value	0
Max value	65535
Description	Source B voltage neutral to phase 3

Variable	SB U31
Address	[103]
Scale Factor	1
Type	Signed integer 16 bits
Read/Write	Read
Min value	-2000
Max value	2000
Description	Source B Line to line voltage U31 in % of nominal voltage

Variable	SB U23
Address	[104]
Scale Factor	1
Type	Signed integer 16 bits
Read/Write	Read
Min value	-2000
Max value	2000
Description	Source B Line to line voltage U23 in % of nominal voltage

Variable	SB U12
Address	[105]
Scale Factor	1
Type	Signed integer 16 bits
Read/Write	Read
Min value	-2000
Max value	2000
Description	Source B Line to line voltage U12 in % of nominal voltage

Variable	SB U31
Address	[106]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read
Min value	0
Max value	65535
Description	Source B voltage phase 1 to phase 3

Variable	SB U23
Address	[107]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read
Min value	0
Max value	65535
Description	Source B voltage phase 3 to phase 2

Variable	SB U12
Address	[108]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read
Min value	0
Max value	65535
Description	Source B voltage phase 2 to phase 1

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

Variable	SB frequency
Address	[118]
Scale Factor	2
Type	Unsigned integer 16 bits
Read/Write	Read
Min value	0
Max value	10000
Description	Source B frequency

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

Variable	SB active power (%)
Address	[131]
Scale Factor	1
Type	Signed integer 16 bits
Read/Write	Read
Min value	-2000
Max value	2000
Description	Bus kW (%)

Variable	SB reactive power (%)
Address	[132]
Scale Factor	1
Type	Signed integer 16 bits
Read/Write	Read
Min value	-2000
Max value	2000
Description	Bus kVAR (%)

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

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

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)

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	Digital input n°1 of the product. Select a normally open polarity if the input is connected to 0V when the input should be considered active. Select a normally closed polarity if the input is connected to 0V when the input must be considered inactive. The validity indicates when the digital input should be taken into account. 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. 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.

Variable	Input 2 (Customisable)
Address	[251]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read
Min value	0
Max value	1
Description	Digital input n°2 of the product. Select a normally open polarity if the input is connected to 0V when the input should be considered active. Select a normally closed polarity if the input is connected to 0V when the input must be considered inactive. The validity indicates when the digital input should be taken into account. 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. 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.

Variable	Input 3 (Customisable)
Address	[252]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read
Min value	0
Max value	1
Description	Digital input n°3 of the product. Select a normally open polarity if the input is connected to 0V when the input should be considered active. Select a normally closed polarity if the input is connected to 0V when the input must be considered inactive. The validity indicates when the digital input should be taken into account. 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. 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.

Variable	Input 4 (Customisable)
Address	[253]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read
Min value	0
Max value	1
Description	Digital input n°4 of the product. Select a normally open polarity if the input is connected to 0V when the input should be considered active. Select a normally closed polarity if the input is connected to 0V when the input must be considered inactive. The validity indicates when the digital input should be taken into account. 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. 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.

Variable	Input 5 (Customisable)
Address	[254]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read
Min value	0
Max value	1
Description	Digital input n°5 of the product. Select a normally open polarity if the input is connected to 0V when the input should be considered active. Select a normally closed polarity if the input is connected to 0V when the input must be considered inactive. The validity indicates when the digital input should be taken into account. 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. 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.

Variable	Input 6 (Customisable)
Address	[255]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read
Min value	0
Max value	1
Description	Digital input n°6 of the product. Select a normally open polarity if the input is connected to 0V when the input should be considered active. Select a normally closed polarity if the input is connected to 0V when the input must be considered inactive. The validity indicates when the digital input should be taken into account. 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. 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.

Variable	Input 7 (Customisable)
Address	[256]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read
Min value	0
Max value	1
Description	Digital input n°7 of the product. Select a normally open polarity if the input is connected to 0V when the input should be considered active. Select a normally closed polarity if the input is connected to 0V when the input must be considered inactive. The validity indicates when the digital input should be taken into account. 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. 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.

Variable	Input 8 (Customisable)
Address	[257]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read
Min value	0
Max value	1
Description	Digital input n°8 of the product. Select a normally open polarity if the input is connected to 0V when the input should be considered active. Select a normally closed polarity if the input is connected to 0V when the input must be considered inactive. The validity indicates when the digital input should be taken into account. 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. 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.

Variable	Input 9 (Customisable)
Address	[258]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read
Min value	0
Max value	1
Description	Digital input n°9 of the product. Select a normally open polarity if the input is connected to 0V when the input should be considered active. Select a normally closed polarity if the input is connected to 0V when the input must be considered inactive. The validity indicates when the digital input should be taken into account. 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. 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.

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

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

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

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

MODBUS TABLE

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

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

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

MODBUS TABLE

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

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

MODBUS TABLE

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

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

MODBUS TABLE

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

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

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

MODBUS TABLE

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

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

MODBUS TABLE

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

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

MODBUS TABLE

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

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

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

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

MODBUS TABLE

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

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

MODBUS TABLE

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

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

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

MODBUS TABLE

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

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

MODBUS TABLE

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

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

MODBUS TABLE

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

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

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

MODBUS TABLE

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

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

MODBUS TABLE

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

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

MODBUS TABLE

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

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

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

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

MODBUS TABLE

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

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

MODBUS TABLE

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

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

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

MODBUS TABLE

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

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

MODBUS TABLE

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

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

MODBUS TABLE

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

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

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

MODBUS TABLE

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

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

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

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

MODBUS TABLE

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

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

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

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

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(φ) 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

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

MODBUS TABLE

Variable	Global mains cos(φ) 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

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(φ) 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

MODBUS TABLE

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

Variable	Global battery inverters cos(φ) 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

MODBUS TABLE

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

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

Variable	Mains presence on the driven segment
Address	[4032]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read
Min value	0
Max value	1
Description	There is currently a mains closed on the driven segment

Variable	Reverse synchronization direction
Address	[4052]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read
Min value	0
Max value	1
Description	Reverse direction

SOURCE A 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)

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

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	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)

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)

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

MODBUS TABLE

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	Microcontroler 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

Variable	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	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)

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.

Variable	Close breaker request
Address	[4007]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read
Min value	0
Max value	1
Description	Active if the automatism wants to close the breaker. Inactive if the automatism wants to open the breaker.

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)

Variable	Electrical faults 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	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).

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

MODBUS TABLE

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

Variable	Source A 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 Source A LED on the front of the product is lit

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	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 Breaker LED on the front of the product is lit

Variable	Source B 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 Source B 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 funtion is in Configuration/programming/Hysteresis

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 funtion 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 funtion 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.

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.

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.

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

SOURCE A

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.

Variable	Nominal voltage
Address	[2102]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read/Write
Min value	0
Max value	65535
Description	This parameter is used to set the nominal voltage: - Three-phase and two-phase: Enter a phase-to-phase voltage. - Single-phase: Enter a phase-to-neutral voltage. All the protections based on the voltage as well as the control loops are calculated as a percentage of this value. For low voltage (400VAC, 440VAC, 480VAC, etc...) or high voltage (20.000VAC, 33.000VAC, etc...) applications, this variable must be adjusted.

Variable	Nominal active power
Address	[2111]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read/Write
Min value	1
Max value	32500
Description	This setpoint adjusts the kW nominal power of the power plant

Variable	Nominal reactive power
Address	[2112]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read/Write
Min value	1
Max value	32500
Description	This setpoint adjusts the kVAR nominal power of the power plant

Variable	Nominal frequency
Address	[2153]
Scale Factor	2
Type	Unsigned integer 16 bits
Read/Write	Read/Write
Min value	0
Max value	10000
Description	This parameter is used to set the nominal frequency. All the protections based on the frequency as well as the control loops are calculated as a percentage of this value. For 50 or 60 Hz applications, this variable must be adjusted.

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 bus circuit breaker of the genset (pulse, hold, coil…)

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	Bus 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.

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.

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: Open breaker
Description	Action performed on protection's trigger. Actions' description is available in the technical documentation.

Variable	Synchronization back timer
Address	[2806]
Scale Factor	1
Type	Unsigned integer 16 bits
Read/Write	Read/Write
Min value	0
Max value	9999
Description	This setpoint adjusts the synchronization back timer. It sets the time to wait to start again synchronization sequence after a 'bus electrical fault' protection.

Variable	Synchronization Back attempts number
Address	[2807]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read/Write
Min value	0
Max value	15
Description	This setpoint adjusts the synchronization back attempts number. It sets the attempt number to start again a synchronization after a 'bus electrical fault' protection.

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)

Variable	Gain Synch
Address	[2904]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read/Write
Min value	0
Max value	100
Description	This variable sets the global Gain of phase synchronization PID. The global Gain is the multiplier of the proportional, integral and derivative values. A too high value will cause a pumping, a too low value will cause a low reaction, We can compare it to a nervousness Gain.

Variable	Proport. Synch
Address	[2905]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read/Write
Min value	0
Max value	100
Description	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. As a general rule : - 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. 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. 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.

Variable	Integral Synch
Address	[2906]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read/Write
Min value	0
Max value	100
Description	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. As a general rule : - 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. 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. 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.

Variable	Derivate Synch
Address	[2907]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read/Write
Min value	0
Max value	100
Description	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. As a general rule : - 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. 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. 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.

SOURCE B

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.

Variable	Nominal voltage
Address	[2152]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read/Write
Min value	0
Max value	65535
Description	This parameter is used to set the nominal voltage: - Three-phase and two-phase: Enter a phase-to-phase voltage. - Single-phase: Enter a phase-to-neutral voltage. All the protections based on the voltage are calculated as a percentage of this value. For low voltage (400VAC, 440VAC, 480VAC, etc...) or high voltage (20.000VAC, 33.000VAC, etc...) applications, this variable must be adjusted.

Variable	Nominal active power
Address	[2157]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read/Write
Min value	1
Max value	32500
Description	This setpoint adjusts the kW nominal power of the power plant

Variable	Nominal reactive power
Address	[2158]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read/Write
Min value	1
Max value	32500
Description	This setpoint adjusts the kVAR nominal power of the power plant

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)

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)

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

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

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

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

MODBUS TABLE

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

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

MODBUS TABLE

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

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)

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)

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)

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

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)

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 ouput 1 pulse timer (0 = no pulse, continous 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 ouput 2 pulse timer (0 = no pulse, continous 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

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

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

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

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

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

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

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

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

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

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)

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)

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)

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)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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)

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)

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)

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)

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

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

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

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

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

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	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	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.

POWER PLANT

Variable	Number of GENSYS 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 GENSYS 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	This parameter is used to define the product identifier for communication between products. It must be unique for each controller 'type': - Number GENSYS 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)

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	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: - 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.

MODBUS TABLE

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	Number of MASTER COMPACT / MASTER COMPACT 1B / BTB (combined) on the power plant. This parameter is used for the CAN communication between products.

Variable	Segment A
Address	[2020]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read/Write
Min value	1
Max value	33
Description	Source A segment number

Variable	Segment B
Address	[2021]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read/Write
Min value	1
Max value	33
Description	Source B segment number

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.

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), 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.

SOURCE A PROTECTIONS

Variable	Mismatch rotophases protection control
Address	[2397]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read/Write
List	0: Unused 1: Bus electrical fault 3: Alarm 4: Open breaker
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.

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: Bus electrical fault 3: Alarm 4: Open breaker
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.

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: Bus electrical fault 3: Alarm 4: Open breaker
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.

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: Bus electrical fault 3: Alarm 4: Open breaker
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.

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: Bus electrical fault 3: Alarm 4: Open breaker
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.

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: Bus electrical fault 3: Alarm 4: Open breaker
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.

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: Bus electrical fault 3: Alarm 4: Open breaker
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.

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: Bus electrical fault 3: Alarm 4: Open breaker
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.

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	0: Unused 1: Bus electrical fault 3: Alarm 4: Open breaker
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	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: Bus electrical fault 3: Alarm 4: Open breaker
Description	Action performed on protection's trigger. Actions' description is available in the technical documentation.

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: Bus electrical fault 3: Alarm 4: Open breaker
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: Bus electrical fault 3: Alarm 4: Open breaker
Description	Action performed on protection's trigger. Actions' description is available in the technical documentation.

SOURCE B 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	0: Unused 1: Bus electrical fault 3: Alarm 4: Open breaker
Description	Action performed on protection's trigger. Actions' description is available in the technical documentation.

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: Bus electrical fault 3: Alarm 4: Open breaker
Description	Action performed on protection's trigger. Actions' description is available in the technical documentation.

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: Bus electrical fault 3: Alarm 4: Open breaker
Description	Action performed on protection's trigger. Actions' description is available in the technical documentation.

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	0: Unused 1: Bus electrical fault 3: Alarm 4: Open breaker
Description	Action performed on protection's trigger. Actions' description is available in the technical documentation.

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: Bus electrical fault 3: Alarm 4: Open breaker
Description	Action performed on protection's trigger. Actions' description is available in the technical documentation.

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: Bus electrical fault 3: Alarm 4: Open breaker
Description	Action performed on protection's trigger. Actions' description is available in the technical documentation.

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: Bus electrical fault 3: Alarm 4: Open breaker
Description	Action performed on protection's trigger. Actions' description is available in the technical documentation.

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: Bus electrical fault 3: Alarm 4: Open breaker
Description	Action performed on protection's trigger. Actions' description is available in the technical documentation.

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: Bus electrical fault 3: Alarm 4: Open breaker
Description	Action performed on protection's trigger. Actions' description is available in the technical documentation.

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: Bus electrical fault 3: Alarm 4: Open breaker
Description	Action performed on protection's trigger. Actions' description is available in the technical documentation.

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: Bus electrical fault 3: Alarm 4: Open breaker
Description	Action performed on protection's trigger. Actions' description is available in the technical documentation.

OTHER PROTECTIONS

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.

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	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.

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.

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.

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: Bus electrical fault 3: Alarm 4: Open breaker
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.

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: Bus electrical fault 3: Alarm 4: Open breaker
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 vaiables 2602 and 2605 will activate from thresholds level set and below. If the setpoint is on "Maximum" then the action of vaiables 2602 and 2605 will activate from thresholds level set and above.

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.

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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: Bus electrical fault 3: Alarm 4: Open breaker
Description	Action performed on protection's trigger. Actions' description is available in the technical documentation.

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: Bus electrical fault 3: Alarm 4: Open breaker
Description	Action performed on protection's trigger. Actions' description is available in the technical documentation.

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.

Variable	Analog input 3 control
Address	[2618]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read/Write
List	0: Unused 1: Bus electrical fault 3: Alarm 4: Open breaker
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.

Variable	Analog input 3 control 2
Address	[2621]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read/Write
List	0: Unused 1: Bus electrical fault 3: Alarm 4: Open breaker
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 vaiables 2618 and 2621 will activate from thresholds level set and below. If the setpoint is on "Maximum" then the action of vaiables 2618 and 2621 will activate from thresholds level set and above.

COMMUNICATION

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: Open breaker
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

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.

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	CAN bus speed 2: - 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. A higher speed results in a reduction of the maximum bus distance.

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
Description	Action performed on protection's trigger. Actions' description is available in the technical documentation.

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: Open breaker
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: Open breaker
Description	Action performed on protection's trigger. Actions' description is available in the technical documentation.

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: Open breaker
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: Open breaker
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: Open breaker
Description	Action performed on protection's trigger. Actions' description is available in the technical documentation.

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...

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...

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...

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...

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...

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...

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...

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...

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...

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...

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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...

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...

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...

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...

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...

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...

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...

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...

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...

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...

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...

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...

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...

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...

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...

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...

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...

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...

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...

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...

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...

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...

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...

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...

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	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.

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	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

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

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

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

Variable	Activation
Address	[3610]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read/Write
List	0: Off 1: On
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

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

MODBUS TABLE

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

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

MODBUS TABLE

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

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

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

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

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

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)

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

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

MODBUS TABLE

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

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

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)

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	This parameter enables the first hysteresis function on logic threshold to be activated. To do this: - 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	This parameter enables the second hysteresis function on logic threshold to be activated. To do this: - 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

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	This parameter enables the third hysteresis function on logic threshold to be activated. To do this: - 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	This parameter enables the fourth hysteresis function on logic threshold to be activated. To do this: - 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

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	This parameter enables the fifth hysteresis function on logic threshold to be activated. To do this: - 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	This parameter enables the sixth hysteresis function on logic threshold to be activated. To do this: - 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

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	This parameter enables the seventh hysteresis function on logic threshold to be activated. To do this: - 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	This parameter enables the eighth hysteresis function on logic threshold to be activated. To do this: - 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

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.

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.

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

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

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

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

SOURCE A

Variable	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	Circuit-breaker closing sequence activation
Address	[4502]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read/Write
Min value	0
Max value	15
Description	Starts circuit-breaker closing sequence (with or without synchronization, depending on conditions).

Variable	AB or BA
Address	[4637]
Scale Factor	0
Type	Unsigned integer 16 bits
Read/Write	Read/Write
Min value	0
Max value	15
Description	Input to change synchronisation bus and reference bus when synchronisation is requested between 2 bus. 0 : Synchronization of A side to B side / 1 : Synchroniation of B side to A side

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 ouput 1.

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.

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 ouput 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 ouput 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 ouput 2.

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.

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.

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.

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.

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

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.

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.

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.

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. Aknowledgement of alarm/fault present in display pages (same action as shift+I reset).

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.

Variable	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	Manual request to open circuit-breaker (alternative to front panel buttons). Active in manual mode only.

Variable	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	Manual request to close circuit-breaker (alternative to front panel buttons). Active in manual mode only.

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)

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 conected to negative, 0 = Input not conected. Check documentation for complete list

Variable	Digital input 2
Address	[954.1]
Type	Bitfield 16 bits
Description	-

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	-

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 ouputs/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	-

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	-

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	-

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 conected to negative, 0 = Input not conected. 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 conected to negative, 0 = Input not conected. 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	-

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	-

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	-

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	-

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	-

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	-

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	-

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

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

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

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

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.

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.

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.

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.

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.

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.

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.

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.

SOURCE A PROTECTIONS

Variable	Over voltage level 1 active as an alarm
Address	[962.4]
Type	Bitfield 16 bits
Description	-

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	Over voltage level 1 active as a fault
Address	[963.4]
Type	Bitfield 16 bits
Description	-

MODBUS TABLE

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	Mismatch rotophases level 1
Address	[4053.0]
Type	Bitfield 16 bits
Description	Active when the level 1 protection triggered.

Variable	Mismatch rotophases level 2
Address	[4053.1]
Type	Bitfield 16 bits
Description	Active when the level 2 protection triggered.

Variable	Source A over frequency level 1
Address	[4250.0]
Type	Bitfield 16 bits
Description	Active when the level 1 protection triggered.

Variable	Source A over frequency level 2
Address	[4250.1]
Type	Bitfield 16 bits
Description	Active when the level 2 protection triggered.

MODBUS TABLE

Variable	Source A under frequency level 1
Address	[4251.0]
Type	Bitfield 16 bits
Description	Active when the level 1 protection triggered.

Variable	Source A under frequency level 2
Address	[4251.1]
Type	Bitfield 16 bits
Description	Active when the level 2 protection triggered.

Variable	Source A over voltage level 1
Address	[4252.0]
Type	Bitfield 16 bits
Description	Active when the level 1 protection triggered.

Variable	Source A over voltage level 2
Address	[4252.1]
Type	Bitfield 16 bits
Description	Active when the level 2 protection triggered.

Variable	Source A under voltage level 1
Address	[4253.0]
Type	Bitfield 16 bits
Description	Active when the level 1 protection triggered.

Variable	Source A under voltage level 2
Address	[4253.1]
Type	Bitfield 16 bits
Description	Active when the level 2 protection triggered.

Variable	Source A voltage unbalance level 1
Address	[4268.0]
Type	Bitfield 16 bits
Description	Active when the level 1 protection triggered.

Variable	Source A voltage unbalance level 2
Address	[4268.1]
Type	Bitfield 16 bits
Description	Active when the level 2 protection triggered.

Variable	Source A rotophase level 1
Address	[4272.0]
Type	Bitfield 16 bits
Description	Active when the level 1 protection triggered.

Variable	Source A rotophase level 2
Address	[4272.1]
Type	Bitfield 16 bits
Description	Active when the level 2 protection triggered.

SOURCE B 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	-

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	Over frequency level 1 active as a fault
Address	[967.0]
Type	Bitfield 16 bits
Description	For Modbus reading

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	Source B over frequency level 1
Address	[4300.0]
Type	Bitfield 16 bits
Description	Active when the level 1 protection triggered.

Variable	Source B over frequency level 2
Address	[4300.1]
Type	Bitfield 16 bits
Description	Active when the level 2 protection triggered.

Variable	Source B under frequency level 1
Address	[4301.0]
Type	Bitfield 16 bits
Description	Active when the level 1 protection triggered.

Variable	Source B under frequency level 2
Address	[4301.1]
Type	Bitfield 16 bits
Description	Active when the level 2 protection triggered.

Variable	Source B over voltage level 1
Address	[4302.0]
Type	Bitfield 16 bits
Description	Active when the level 1 protection triggered.

Variable	Source B over voltage level 2
Address	[4302.1]
Type	Bitfield 16 bits
Description	Active when the level 2 protection triggered.

Variable	Source B under voltage level 1
Address	[4303.0]
Type	Bitfield 16 bits
Description	Active when the level 1 protection triggered.

Variable	Source B under voltage level 2
Address	[4303.1]
Type	Bitfield 16 bits
Description	Active when the level 2 protection triggered.

Variable	Source B voltage unbalance level 1
Address	[4314.0]
Type	Bitfield 16 bits
Description	Active when the level 1 protection triggered.

Variable	Source B voltage unbalance level 2
Address	[4314.1]
Type	Bitfield 16 bits
Description	Active when the level 2 protection triggered.

Variable	Source B rotophase level 1
Address	[4318.0]
Type	Bitfield 16 bits
Description	Active when the level 1 protection triggered.

Variable	Source B rotophase level 2
Address	[4318.1]
Type	Bitfield 16 bits
Description	Active when the level 2 protection triggered.

OTHER PROTECTIONS

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.

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.

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	-

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 occured: Fault LED is blinking
Address	[950.0]
Type	Bitfield 16 bits
Description	Bitfiled 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 occured : Alarm LED is blinking Bit 0 = 1 : New fault occured : Fault LED is blinking

Variable	New alarm occured: 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	-

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	-

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	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	-

Variable	Fail to synchronize active as an alarm
Address	[970.0]
Type	Bitfield 16 bits
Description	For Modbus reading

MODBUS TABLE

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	-

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 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	-

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	-

MODBUS TABLE

Variable	Minimum/maximum analog measure 3 (level 2) active as a fault
Address	[971.9]
Type	Bitfield 16 bits
Description	-

Variable	Fail to close bus breaker active as a fault
Address	[971.10]
Type	Bitfield 16 bits
Description	-

Variable	Fail to open bus breaker active as a fault
Address	[971.11]
Type	Bitfield 16 bits
Description	-

Variable	Bus breaker open suddently active as a fault
Address	[971.12]
Type	Bitfield 16 bits
Description	-

Variable	Bus 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	Overload microcontroler active as an alarm
Address	[972.4]
Type	Bitfield 16 bits
Description	-

Variable	Emergency stop active as a fault
Address	[973.2]
Type	Bitfield 16 bits
Description	-

Variable	CANopen error active as a fault
Address	[973.8]
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	Source A voltage unbalance level 1 active as an alarm
Address	[974.2]
Type	Bitfield 16 bits
Description	-

Variable	Source A voltage unbalance level 2 active as an alarm
Address	[974.3]
Type	Bitfield 16 bits
Description	-

Variable	Source B voltage unbalance level 1 active as an alarm
Address	[974.6]
Type	Bitfield 16 bits
Description	-

Variable	Source B 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	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	Source A voltage unbalance level 1 active as a fault
Address	[975.2]
Type	Bitfield 16 bits
Description	-

Variable	Source A voltage unbalance level 2 active as a fault
Address	[975.3]
Type	Bitfield 16 bits
Description	-

Variable	Source B voltage unbalance level 1 active as a fault
Address	[975.6]
Type	Bitfield 16 bits
Description	-

Variable	Source B voltage unbalance level 2 active as a fault
Address	[975.7]
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	-

Variable	MAN
Address	[952.3]
Type	Bitfield 16 bits
Description	-

Variable	TEST
Address	[952.5]
Type	Bitfield 16 bits
Description	-

Variable	Bus breaker
Address	[952.6]
Type	Bitfield 16 bits
Description	-

Variable	Alarm
Address	[952.7]
Type	Bitfield 16 bits
Description	-

Variable	Bus 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.

Variable	Right arrow button
Address	[951.1]
Type	Bitfield 16 bits
Description	Active (1) if the button is pressed. Inactive (0) otherwise.

MODBUS TABLE

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.

Variable	Breaker button
Address	[951.9]
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

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

Variable	Breaker button inhibition
Address	[8102.9]
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