

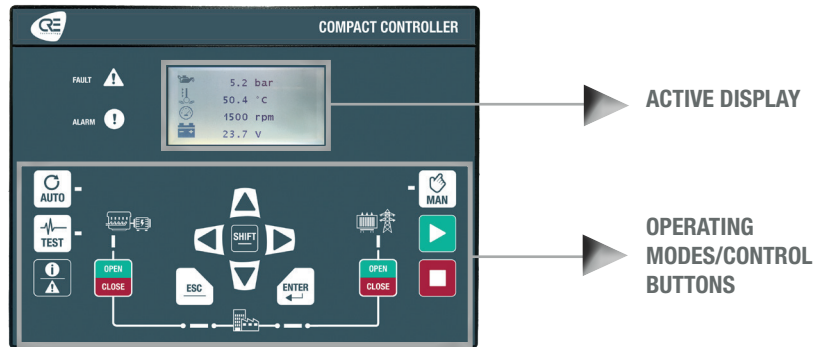


# QUICK START AMF COMPACT

The purpose of this document is to allow a fast and easy handling of the product, nevertheless it is essential that you refer to the technical documentation (latest version always available on our website [www.cretechnology.com](http://www.cretechnology.com)) for the commissioning.

For any further information on this product, please contact your local distributor or agent or directly our support team.

- All our products have a 1 year warranty
- Help desk: +33 492 38 86 86
- E-mail: [support@cretechnology.com](mailto:support@cretechnology.com)



## OPERATIONNAL MODES

The controller can be configured and controlled using the buttons of the front panel:

- The arrows, ESC and ENTER buttons are dedicated to navigation for displaying measurements and parameters, and for configuring the controller.
- The SHIFT button is used to reset faults when combined with the alarms/faulsts button
- The AUTO button switches to a mode that makes the controller operate the installation in a fully automatic mode according to its settings and configuration, external action to start : "remote start" digital input or "mains failure" by ModBus TCP.
- The TEST button switches to a mode that simulates the start of the Auto mode with the requested sequences. To exit from the TEST mode, simply press AUTO or press MAN mode.
- The MAN button switches to a mode allowing you to manage your installation with the front panel buttons manually, while maintaining the automatic management of auxiliary and protections, ex : if you press the START button the engine will start and you will manage the auxiliaries (preheating/starter...), if you press I/O breaker button the load will be transferred according to its settings. In MAN mode, the protections remain active, but all external start orders and automatic sequences are inhibited.

## MENUS

When the controller is powered up, the home page appears on the screen. The content of this page is dynamic, depending on the status of the power plant. Press "ENTER" to access the index page of available menus:

- **Supervision** : Use the arrow buttons to select this menu, then press "ENTER" to access the supervision pages.
- **Settings** : Use the arrow buttons to select this menu, then press "ENTER" to access the settings pages. A password is required to define the operating mode. To enter the password: Use the "↑" and "↓" buttons to change character, move to the next/previous character with the "→" and "←" buttons, confirm password by pressing "ENTER". The operating modes are the following:
  - Standard: Provides access to the basic settings recommended to start commissioning your application. The default password is "1".
  - Advanced: Provides access to all settings for optimum application commissioning. For complex settings not available on the controller front panel, use the i4Gen Suite software (Easy-Flex, scheduler, alternative selection, etc.). The default password is "1234".

### THE DIFFERENT MENUS WILL APPEAR AS FOLLOW

SUPERVISION		SETTINGS (*LEVEL 2 ONLY)	
GENERATOR	Generator electrical measures: frequency, voltage, powers, currents, powers per phase and power factor.	GENERAL	Application, timers, CAN and events settings.
MAINS	Mains electrical measures: frequency, voltage, powers, currents and power factor.	ELECTRICAL	Generator, mains and power management settings.
ENGINE	Engine mechanical measures: oil pressure, water temperature, speed, battery voltage, running hours, starts attempts, etc.	ENGINE/ECU/ECM	Engine, ECU/ECM and maintenance settings.
INPUTS/OUTPUTS	Real time displays for digital I/Os, and CANopen digital I/Os.	INPUTS/OUTPUTS	Digital inputs, analog inputs, digital/relay outputs and breaker settings.
MAINTENANCE	Real time displays for maintenance counters on hours, and days.	PROTECTIONS*	Generator, mains, engine and other protections settings.
ABOUT	Information about hardware and firmware: serial number, firmware version.	PROGRAMMING*	Modification by variable number.
		SYSTEM	Language, screen setup, date/time, Ethernet and password settings.





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## WIRING CONNECTION

Wiring & Dimensions/Panel cut out are available on the website in the **technical documentations** section of the controller: [www.cretechnology.com](http://www.cretechnology.com)

## PC CONNECTION - WITH I4GEN SUITE SOFTWARE

Switch on the controller. Connect the Ethernet port (RJ45-LAN) of your computer to the Ethernet port of the controller. To be able to establish communication between the i4Gen Suite and the controller, the network addresses of both devices should be configured:

- For PC network configuration, please refer to your Windows network settings.
- To configure the controller IP address, proceed as follows:
  1. Download the latest version of the i4Gen Suite software on our website <https://www.cretechnology.com/en/software/130/i4gen-suite>
  2. Open the i4Gen Suite software and go on Easy connect menu. ▶ 
  3. Click on the scan button to identify your controller. ▶ **SCAN**
  4. Click on the auto configuration button to adapt your controller's IP address. ▶ **AUTO CONFIGURATION**
  5. Your system is ready. Click on the connection button to access supervision, configuration and control of your controller. ▶ 

Once connected, you will be able to navigate through the following menus:



**CONTROLLER SUPERVISION**  
(Controller measurement supervision)



**CONTROLLER SETTINGS**  
(Controller parameters settings)



**PC SETTINGS**  
(PC software settings)

### NOTE

Before the commissioning or the operation of your equipment, please read carefully the user's manual and other related documentations.

We also offer personalized and specific training on our product range and software, as well as additional services such as: onsite support, application engineering or specific support.



**Carefully apply the safety instructions. Any misuse of your equipment can lead to human or machine damages.**

## COMMISSIONING

- In MAN mode: Start/Stop the engine, and check protections (oil pressure, water temp, emergency stop, etc.). Check that the configuration and wiring are done for an AMF application (generator and mains breakers feedback optional). Check the phase direction and the phase concordance. Check the generator and mains voltage terminals assignment. Open and close the generator breaker and the mains breaker. Apply some load on the generator side and check the power measurement in kW per phase is positive. Take some load on the mains side and check the power measurement in kW per phase is positive. Press the START button to check the start sequences (cranking attempt, start motor disengagement and others auxiliaries...). Press the breaker button to check the transfer of load.
- Set the controller in AMF mode and in test on load and switch to the TEST mode. With this mode we simulate a complete sequence as expected in AUTO mode, the load is automatically transferred to the generator after the start sequences. To stop the TEST mode sequence, press the AUTO mode button. After the engine running, the AUTO mode could be selected to take the load by the activation of an auxiliary input that has been configured to remote start on load or with a mains failure.

