

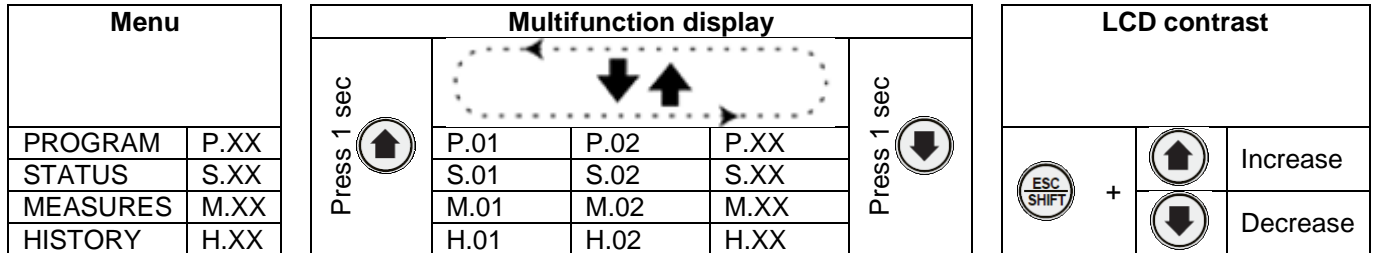
INFORMATION ON SAFETY

The following indications have been used to identify the safety messages in this manual:



WARNING! This indication is used in the safety messages for risks that, unless avoided, can cause malfunctions or damages to things and/or people.

NAVIGATION



This area, which is composed by the display and the **UP**, **DOWN**, **ENTER** and **ESC** buttons, allows the visualization (and the modification) of the setpoints, the status of the grid and of its protections, the electrical measures, the digital input/output signals and the history logs. The navigation is organized in menus and pages.

Keep the **UP** or **DOWN** buttons pressed for more than 1 second to move across the menus. Press the **UP** or **DOWN** buttons for less than 1 second to move across the pages in the selected menu. In **PROGRAM** and **HISTORY** menus, use the **ENTER** button to access sub-menus, press the **ESC** button to go back to the upper menu.

In **PROGRAM** menu, use the **ENTER** button to start the editing of a setpoint, press **UP** or **DOWN** buttons to change its value, confirm with **ENTER** or abort with **ESC**. Using **UP** or **DOWN** buttons together with **SHIFT** allows to change the value of the setpoint x10.

Depending on the environmental lighting conditions, a contrast adjustment may be required to view the display correctly. Press the buttons sequence **SHIFT + DOWN** to decrease the contrast and **SHIFT + UP** to increase it.

OPERATION

This area, composed by the **RESET** button and the **TRIP** led, allows to manage the plant.

The **TRIP** led is activated whenever a grid protection trips. It is deactivated when all the grid protections are reset. You can select the auto-reset mode for the grid protections, or you can manually reset them by pressing the **RESET** button. While the **RESET** button is pressed, the controller switches on the **TRIP** led (lamp test).

The controller can also activate anomalies not related to the grid (for example low/high power supply voltage): in this case a message is shown on the display and the internal horn is activated. Press the **ENTER** button to silence the internal horn and to "acknowledge" the anomaly. Press the **RESET** button to reset the anomaly.

SETPOINTS CONFIGURATION



WARNING! Assigning an incorrect value to one or more setpoints can cause malfunctions or damages to things and/or people. The setpoint changes must be carried out only by skilled personal. The setpoints can be protected by password.

To adjust the setpoints, it is necessary to enter the **PROGRAM** menu (page **P.XX**).

The editing of the setpoints can be protected by three different **PASSWORD** levels, which are listed in order of priority:

1. **Manufacturer password.**
2. **Installer password.**
3. **User password.**

The controller provides three setpoints (P.0001, P.0002 and P.0003) to configure the passwords (if required); the value “0” means “no password”. If one password is lost, you can reconfigure it using a higher-level password. Contact the technical support if the MANUFACTURER password is lost. No password is set by SICES in new controllers.

If passwords are configured, before editing a setpoint please log-in to the system by typing your password into the setpoint P.0000, located in the menu “1 SYSTEM→ 1.1 Security → 1.1.1 Authentication”. The controller clears the setpoint P.0000 after 10 minutes: you will have to log-in again if you’ll need to change other setpoints.

Editing a setpoint

In the PROGRAM menu, navigate through the submenus using **ENTER** (enter a sub-level), **ESC** (go back to higher level), **UP** and **DOWN** buttons. When the required setpoint has been found, press **ENTER** to start the editing (it is signalled by flashing the square brackets [..] around the value). Use **UP** and **DOWN** buttons to change the value (together with **SHIFT** allows changing x10). Press **ENTER** to confirm or **ESC** to abort.

If the square brackets are replaced by the symbols < >, it means that you have no access rights for that setpoint.

Setpoints for grid protections and generic anomalies

The controller provides many setpoints for each grid protection and for each generic anomaly. Usually a setpoint is provided to configure a delay for the protection: set the “delay” setpoint to “0” to disable the protection.

MAIN DEFAULT PARAMETERS

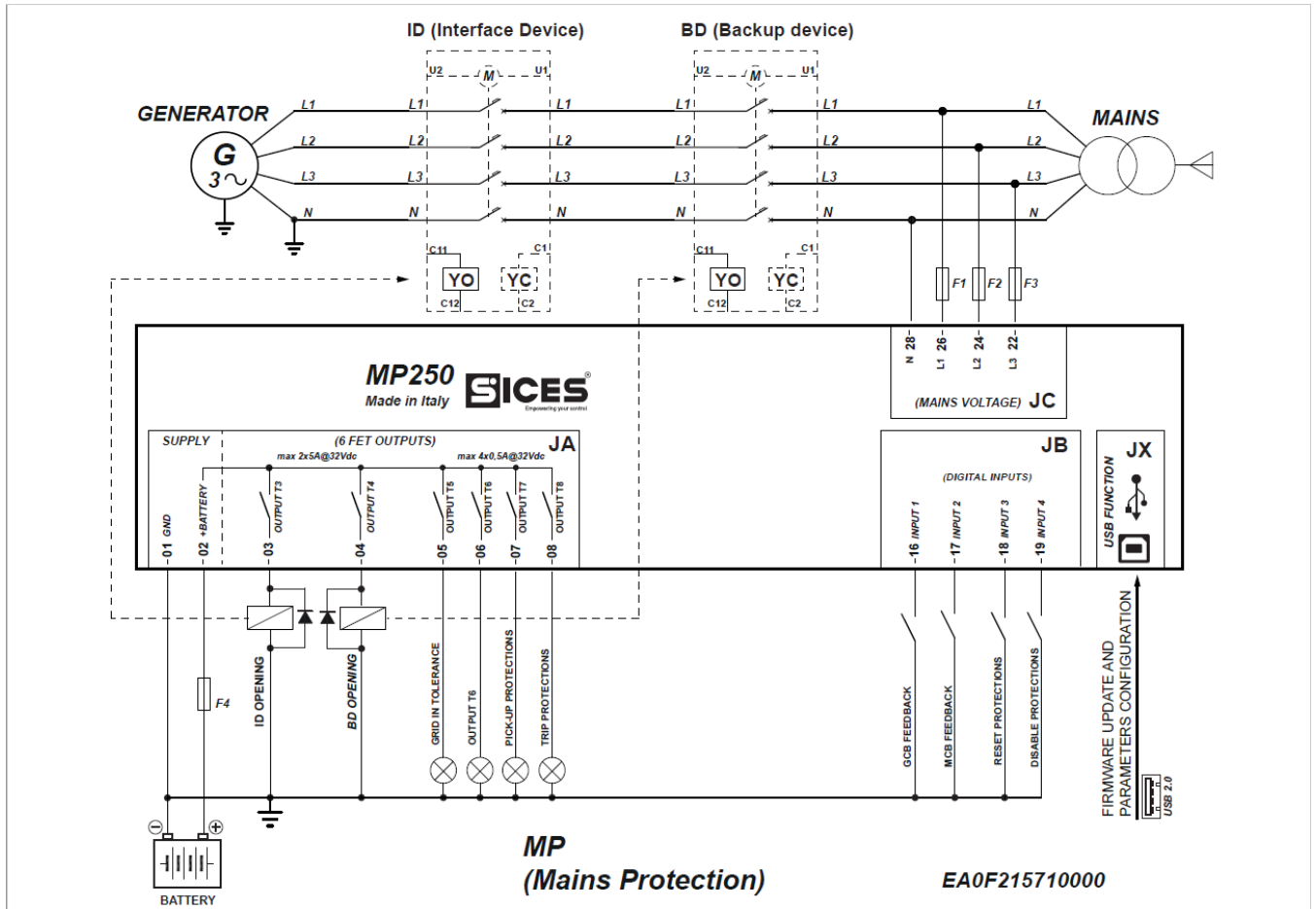
Description	U.M.	Value
SYSTEM		
P.0001: maker password.		0
P.0002: installer password.		0
P.0003: user password.		0
GRID		
P.0105: rated frequency.	Hz	50
P.0119: number of phases.		3
P.0129: neutral connection.		Yes
P.0116: rated voltage.	Vac	400
P.0920: rated phases' sequence.		None
P.0117: voltage transformers (primary).	Vac	0
P.0118: voltage transformers (second.).	Vac	0
GRID PROTECTIONS		
27_1		
P.9521: trip threshold.	%	87.0
P.9522: trip delay.	s	2.50
P.9523: reset threshold.	%	90.0
P.9524: reset delay.	s	0.70
27_2		
P.9525: trip threshold.	%	80.0
P.9526: trip delay.	s	0.50
P.9527: reset threshold.	%	90.0
P.9528: reset delay.	s	0.70
59_1		
P.9551: trip threshold.	%	114.0
P.9552: trip delay.	s	1.00
P.9553: reset threshold.	%	110.0
P.9554: reset delay.	s	0.70
59_2		
P.9555: trip threshold.	%	119.0
P.9556: trip delay.	s	0.50
P.9557: reset threshold.	%	110.0
P.9558: reset delay.	s	0.70

Description	U.M.	Value
81U_1		
P.9641: trip threshold.	%	95.00
P.9642: trip delay.	s	20.00
P.9643: reset threshold.	%	99.00
P.9644: reset delay.	s	0.70
81U_2		
P.9645: trip threshold.	%	94.00
P.9646: trip delay.	s	0.50
P.9647: reset threshold.	%	99.00
P.9648: reset delay.	s	0.70
81O_1		
P.9651: trip threshold.	%	103.00
P.9652: trip delay.	s	90.00
P.9653: reset threshold.	%	101.00
P.9654: reset delay.	s	0.70
81O_2		
P.9655: trip threshold.	%	104.00
P.9656: trip delay.	s	0.50
P.9657: reset threshold.	%	101.00
P.9658: reset delay.	s	0.70
ROCOF_1		
P.9661: trip threshold.	Hz/s	1.0
P.9662: trip delay.	s	0.50
P.9663: trip mode.		UP/DN
GENERAL		
P.9502: reset mode.		Auto
P.9503: auto-reset delay.	s	0.5
P.9501: breaker fail to open delay.	s	0.5
P.9504: voltage measurement mode.		LN+LL

CHARACTERISTICS AND DIMENSIONS

Supply voltage:	7..32 Vdc	Operating conditions:	-30°C...+ 70°C
Current consumption	132 mA @ 13.5Vdc 110mA @ 27 Vdc	Dimensions:	141(L)x113(H)x39(D)mm
Rated frequency:	50/60 Hz	Panel cut-out	118(L)x92(H)mm

CONNECTION DIAGRAM



For further information on the device, related to the operation and configuration, please refer to the technical documentation available in the Download Area of the website www.sices.eu.

S.I.C.E.S. SRL
Società Italiana Costruzioni Elettriche Sumirago
Via Molinello 8B
21040 - Jerago con Orago (VA) ITALY
T +39 0331 212941 - F +39 0331 216102
www.sices.eu
sales@sices.eu



EAA0M067200EN