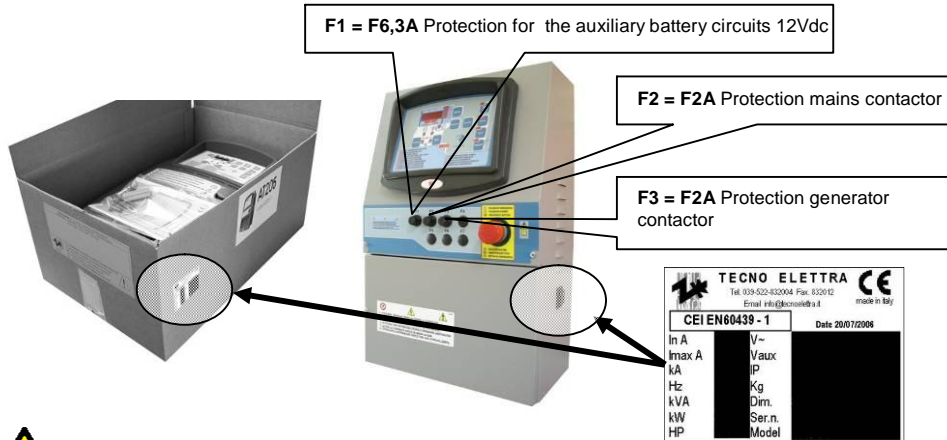




AT92B3806 “Quick installation guide”

UK

General information

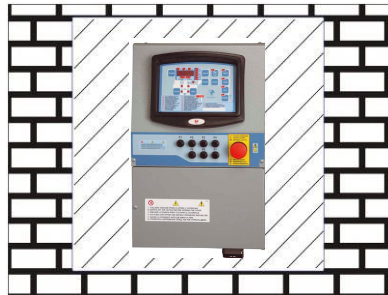
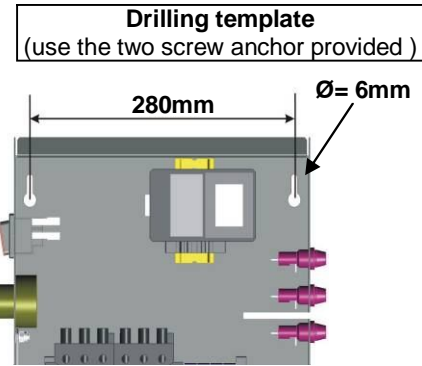


Description of the data shown on the label

In = nominal current
I_{max} = maximum rated current
KA = maximum breaking current against short circuit
Hz = frequency
KVA = apparent power (calculated at cos φ 0,8)
KW = active power
HP = horse power
V~ = maximum use voltage of the primaries
V_{aux} = maximum voltage of the auxiliary circuits
IP = degree of protection against external agents
Kg = approximate weight
Dim = dimensions Height x Width x Depth
Ser.n = serial number
Model = product code

WARNING! Check that the product delivered exactly corresponds to the ordered one.

Installation



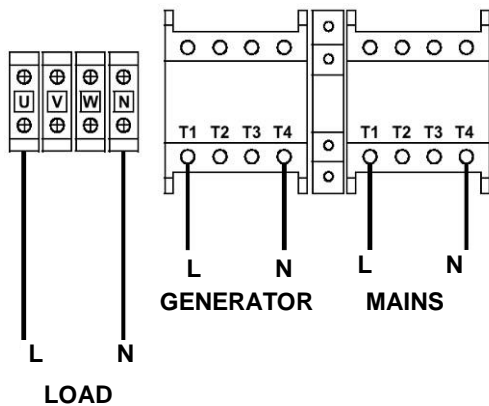
Free space of aeration reason = min. 10cm all around the switchboard

TECHNICAL FEATURES

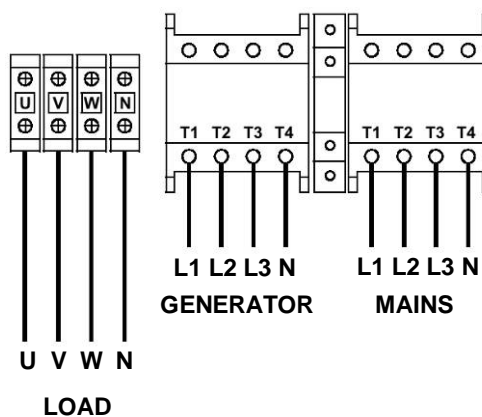
Nominal voltage battery 12Vdc
 Maximum rated current 250mA
 Maximum rated power 3W
 Operating range 10 ÷ 17VDC
 Nominal voltage generator/mains 100 ÷ 265Vac L-N
 Measuring range voltage appearing 50 ÷ 450Vac
 Frequency range 45 ÷ 65Hz
 Degree of protection front board IP65
 Degree of protection of switchboard IP20
 Operating temperature -20 ÷ +50°C
 Storage temperature -30 ÷ +70°C
 Maximum rated humidity <90%

Power electrical connections

Single-phase systems connections 2P



Three-phase systems connections 4P



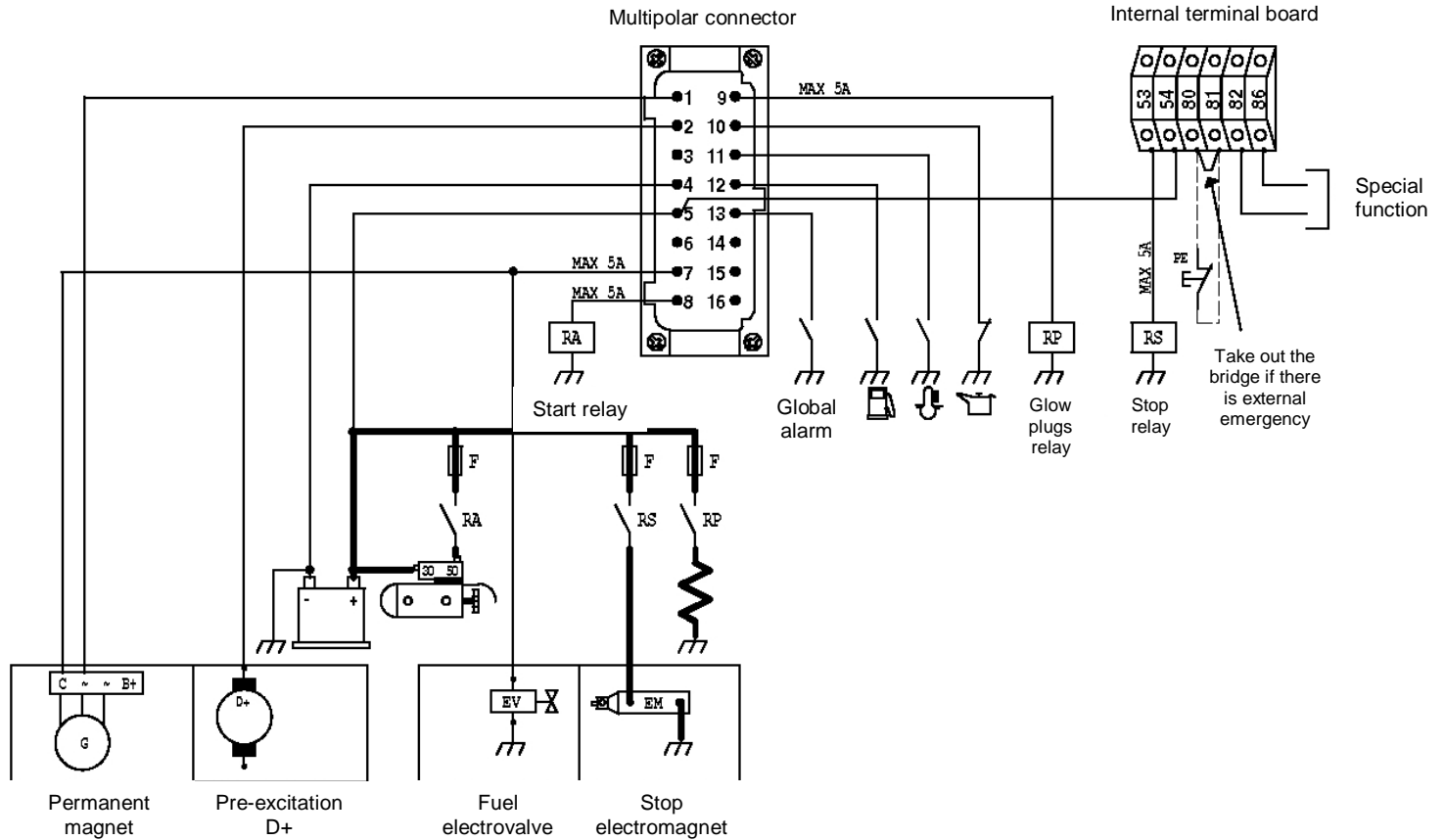
Cables sections

Single-phase system 2P (max 5m)
 Three-phase system 4P (max 5m)

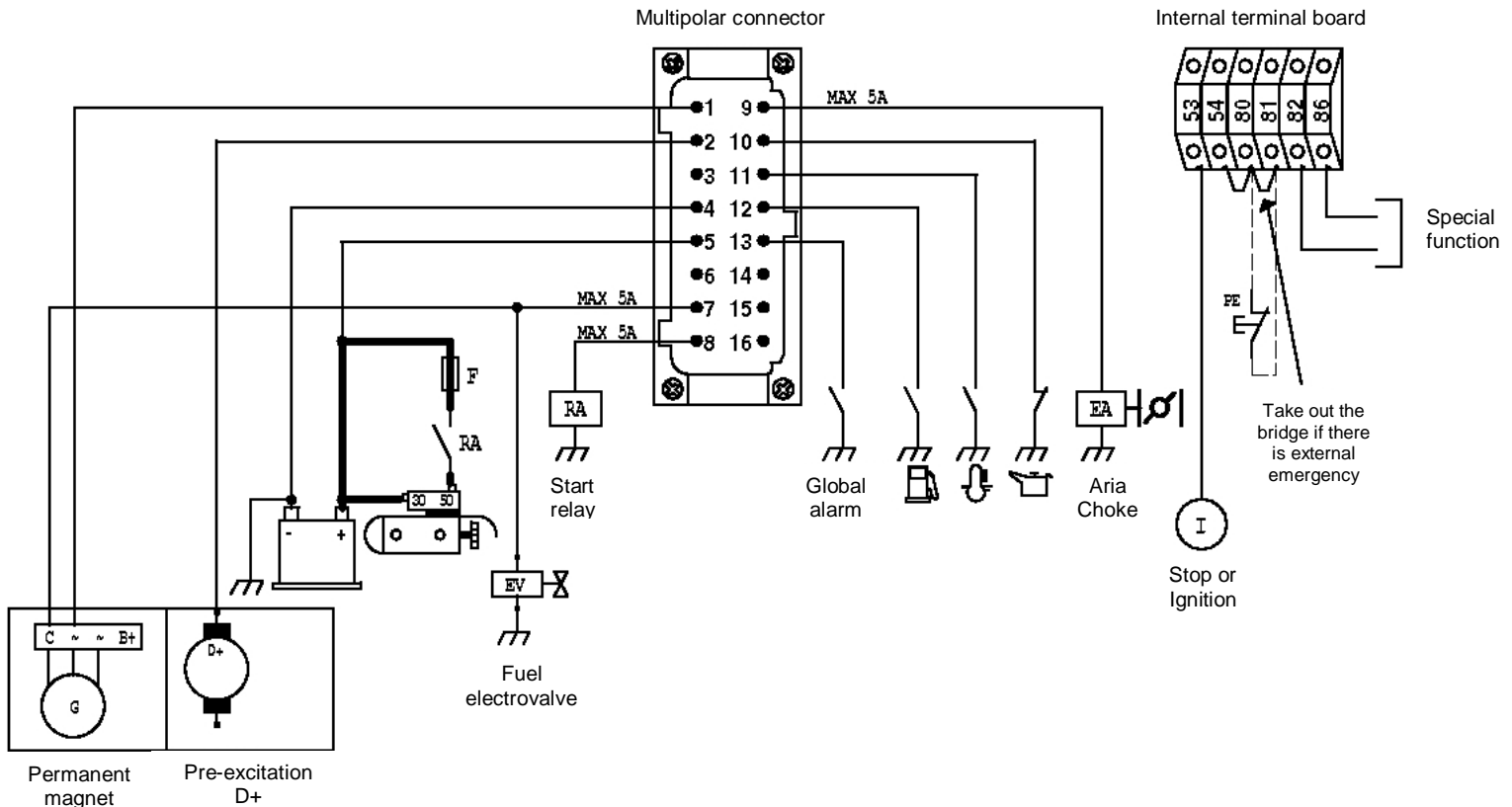
I max	min sec.	max sec.
28A	1x 4mm ²	1x 10mm ²
45A	1x 10mm ²	1x 16mm ²
60A	1x 16mm ²	1x 35mm ²
90A	1x 25mm ²	1x 35mm ²
110A	1x 35mm ²	1x 35mm ²
125A	1x 35mm ²	1x 35mm ²



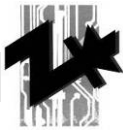
Auxiliary electrical connections – Diesel motor



Auxiliary electrical connections – Fuel motor



WARNING! if there a protection switch on the generator output voltage, please remember to turn it in ON before the gen-set start running



Power ON – first start up

Verify that the Emergency button is released: if not, rotate it in clockwise direction to unlock it. (only if available).



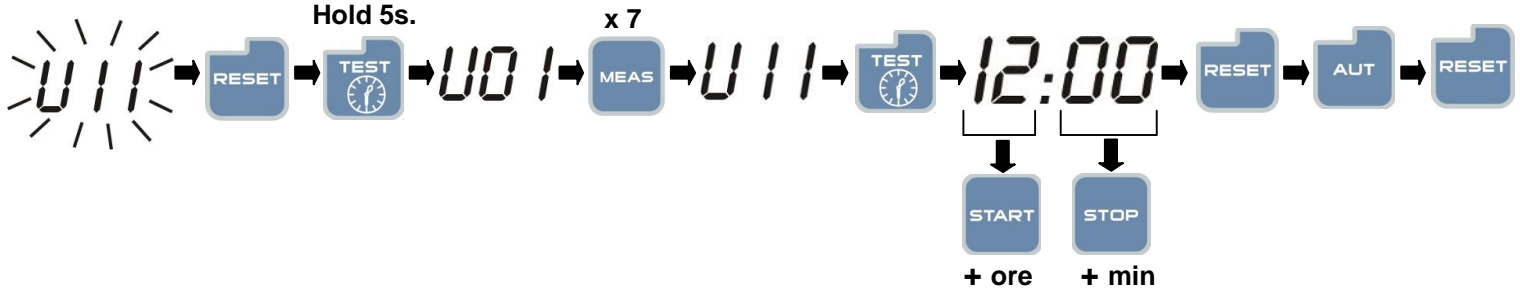
During the first start up, U11 code flashes as a reminder to programming the clock



Push RESET button to confirm the message, and remove it from display



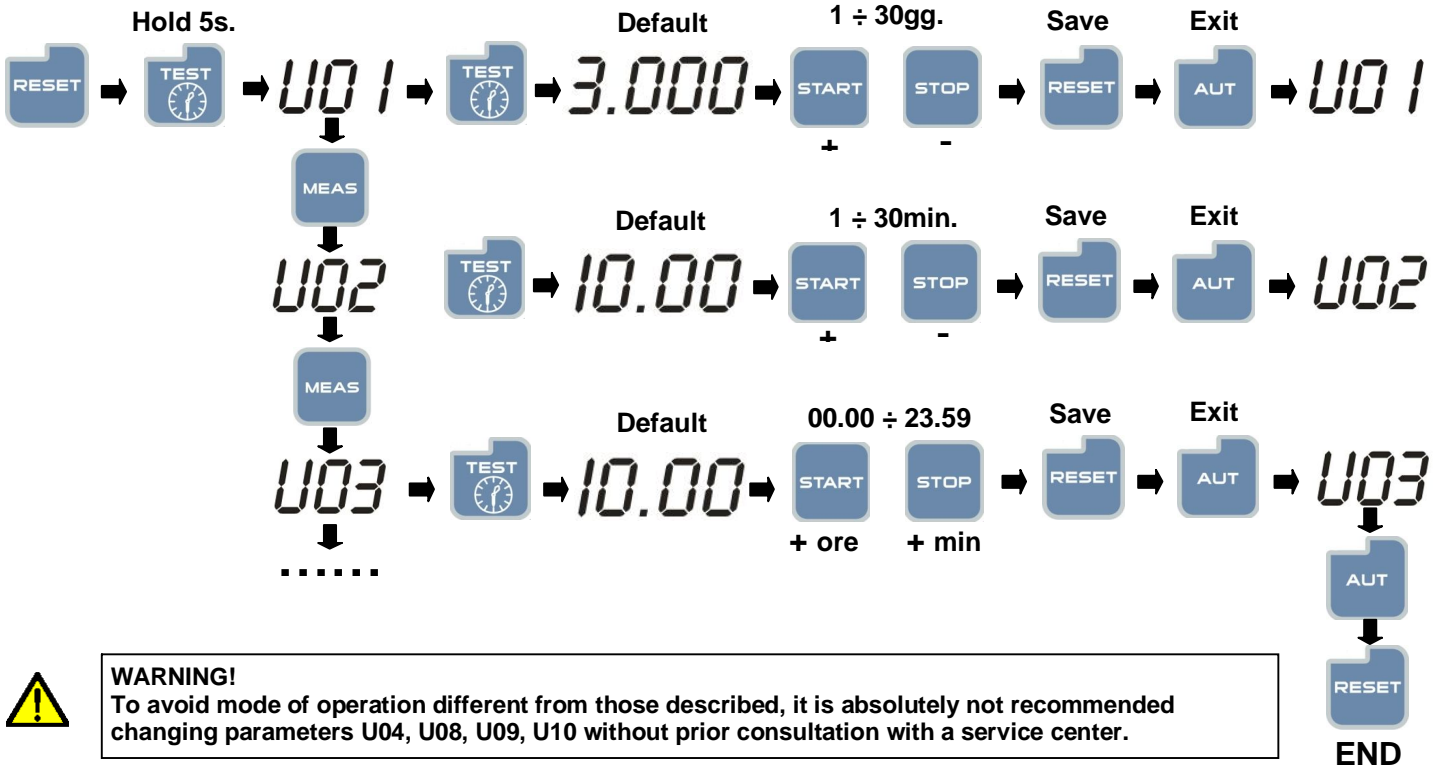
Power ON – clock programming



“AUTOMATIC TEST”: programming (only if necessary)

DESCRIPTION
Default set-up:
 the test is done every 3 days (U01), start at 10:00 (U03) and lasts 10 minutes (U02).

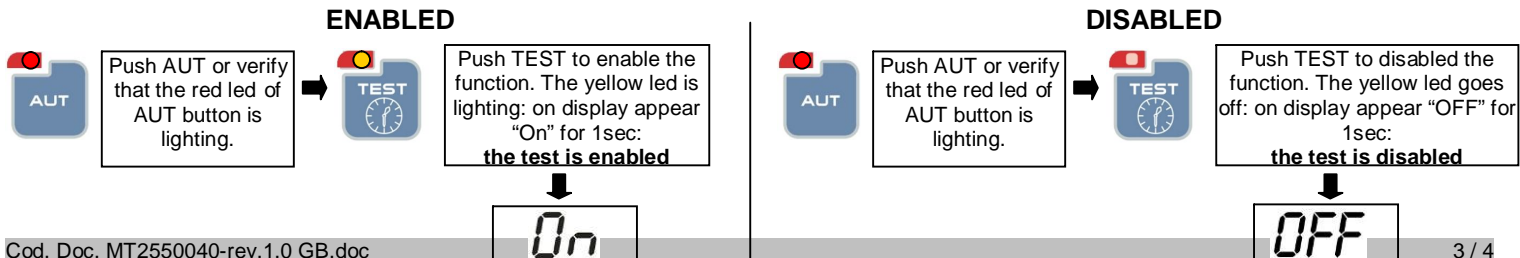
Setup	Description	Range	Default
U.01	Automatic test interval time	1 – 30gg	3 gg
U.02	Test duration	1 – 30 min	10 min
U.03	Test start time	00:00 – 23:59	10:00

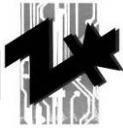


WARNING!
 To avoid mode of operation different from those described, it is absolutely not recommended changing parameters U04, U08, U09, U10 without prior consultation with a service center.

“AUTOMATIC TEST”: enabled and disabled (only if necessary)

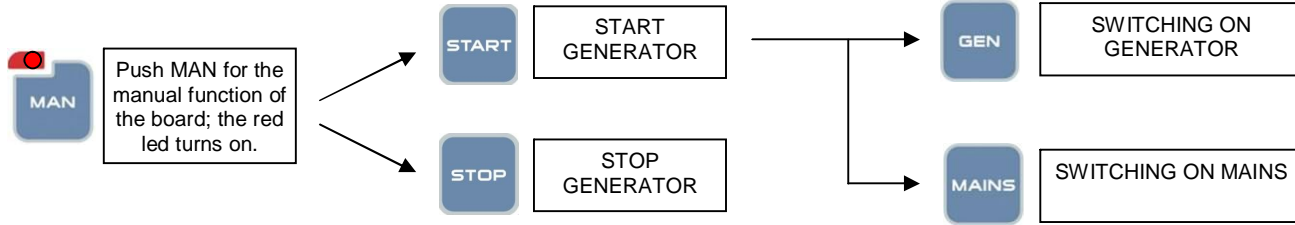
When the automatic test parameters are set, you have to enable this, as follows:





Mode of operation

BOARD IN MANUAL FUNCTION: The operator decide the starter, the stopping and the switching of generator.

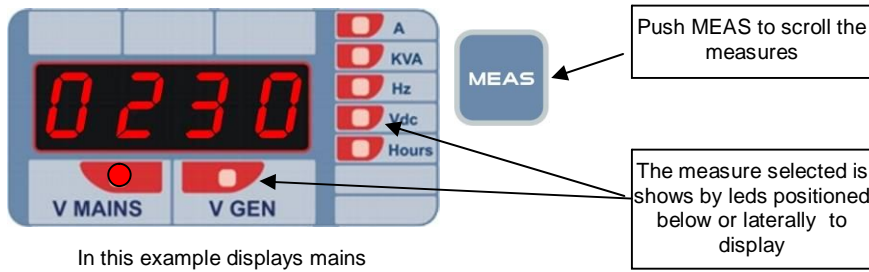


WARNING! The generator could remain in on for several seconds, according to cooling time set.

BOARD IN AUTOMATIC FUNCTION: The electrical switching board automatically starts the generator in case of the mains irregularity, and stopping the generator when the mains became normal. The electrical panel also switching the contactor. If enabled, the automatic test goes on based on programming.

BOARD IN RESET: Push RESET, if the generator is on, it will be stopped immediately. In this position you can not start the generator and it is not possible to handle switching.

Display measures



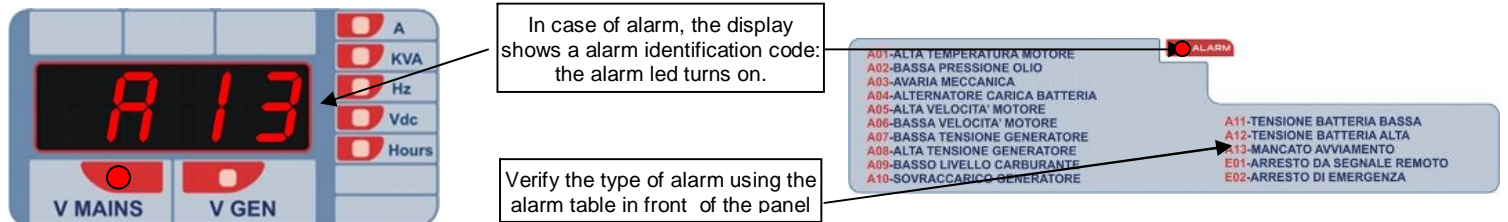
In this example displays mains voltage of 230V

Table of the parameters can show on display:

V MAINS: Mains voltage
 V GEN: Generator voltage
 A: Generator output current (only if available)
 KVA: Generator power output (only if available)
 Hz: Generator frequency
 Vdc: Battery voltage
 Hours: Generator work hours

If all leds are turned off, the display shows the actual time.

Display alarms



In this example displays "A13" alarm: "Starting failure"



WARNING! In case of alarm we suggest to contact the generator manufacturer.



Push RESET to clear the alarm signal and put the generator in safety.

GENERAL WARNING!

- Read this manual carefully since it is necessary as a guide to the way the product is designed to be used, to its technical features, to supply the instructions for installation, assembly and use. It is also useful for personnel training, to indicate the maintenance operations, for ordering spare parts and to give indications of the outstanding hazards.
- The manual must always be available for consultation near the panel and kept in a proper manner (in protected, dry places, away from direct sunlight, etc.); it should be considered as part of the panel and must be "KEPT FOR FUTURE REFERENCE" as long as the equipment is assembled.
- It should be borne in mind that some diagrams it contains have only the purpose of identifying the parts described and therefore might not correspond to your card.
- After opening the package, check the entire unit in case of problems with this unit do not use it until you have consulted an the **Retailer or Manufacturer** otherwise all warranty rights will be voided.
- This card has only to be used for the purpose for which it was specifically designed. Any other use shall be considered improper and, therefore, dangerous.
- All operations concerning the installation of the control panel should be carried out by skilled personnel in conformity with present regulations.
- During work it is recommended to keep to the current personal safety rules in force in the country the product is destined for (clothing, work tools, etc.).
- When the unit is working do not use the card parts.
- Never for any reason modify any part of the card (connections, holes, electrical or mechanical devices, etc.) unless duly authorized to do so in writing by **manufacturer**: the responsibility deriving from any such action shall fall on the person doing it since he then in fact becomes its manufacturer.
- Before doing any cleaning or maintenance, disconnect the control panel from the power supply.
- Never use the card exposed to sources of heat or under direct hot sunlight

It is wise to remember that should any difficulty arise in its use, installation or whatever, our Technical Service is always at your disposal for any explanations or action.