

Testo originale

23. CONVERTER ALARMS

The alarms of the converter power board can be viewed as follows:

- All alarms: From PRO Control Panel
- Inverter Alarms: From Inverter Control Panel via display or ViewPro.
- AFE Alarms: From AFE Control Panel via display or ViewPro.
- Power Board Alarms: From board **AB XY01** E9 inputs PLC checking the status of the red LEDs or from board PLC B047 via applicative BC2401.

If present, all alarms can be displayed by the remove supervision unit via Profibus.

The alarms are divided into three categories linked to the seriousness of the triggering event:

- type A: following an alarm of this type, the machine immediately disconnects from the grid and from the generator.
- type B: following an alarm of this type, the machine reduces current generator side according to a pre-established ramp until stopping.
- type C: the machine communicates the need to be submitted to maintenance, consequently the Client must program a stop for maintenance; there are three Software meters for this purpose that act as follows:
 - alarm every 5.000 hours of operating for a first level maintenance
 - alarm every 10.000 hours of operating for a second level maintenance
 - alarm every 15.000 hours of operating for a third level maintenance

Every meter can be reset only and exclusively using the local keypad.

After a period of time from the signalling of one of these alarms with a corresponding silencing action by an operator, the machine automatically places itself in a reduced speed operating condition (50% of nominal power).

Parole 255

Testo Information Mapping®

Converter alarms

Where to identify alarms

Converter power board alarms can be viewed in various places:

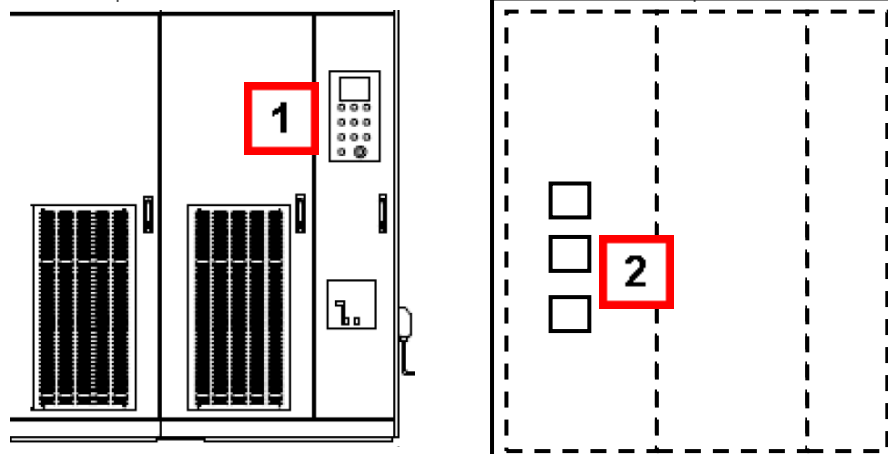


Figure 1: converter power board alarm display position

Items	Description	Alarms
1	PRO Control Panel	All
2	Inverter Control Panel (locally or through ViewPro)	Inverter Alarms
	PC Control Panel (locally or through ViewPro)	AFE alarms
	<ul style="list-style-type: none"> • red LED on AB XY01 E9 inputs PLC board • board PLC B047 via applicative BC2401. 	Power Board Alarms

NOTE: all alarms can be displayed on the supervisory system (optional).

Machine behaviour in case of alarms

Based on the type of alarm triggered, the converter power board behaves as following:

If the alarm type is...	Then...
A	the machine immediately disconnects from the grid and from the generator.
B	the machine reduces current generator side according to a predefined ramp until stopping.
C	the machine asks for maintenance: in this case a stop for maintenance must be scheduled.

C alarms maintenance requests

There are three levels of C alarm maintenance requests and occur when the following conditions are met:

- an alarm every 5.000 operating hours (**First level maintenance**)
- an alarm every 10.000 operating hours (**Second level maintenance**)
- an alarm every 15.000 operating hours (**Third level maintenance**)

NOTE: An auto power reduction is applied (50% nominal power) when the operator does not properly react to maintenance requests.

Parole: 221 (-14%)