ALPHA 16/248

Modular conventional fire alarm control panel from 16 to 248 zones

The fire detection panel **ALPHA 16/248** has been developed and engineered **according to European standards: EN 54-2 and EN 54-4.**

The base unit contains general information, buttons, power supply, charger and 16 conventional zones. The panel default configuration is made of 16 resistive monitored conventional lines located on 2 internal expansion boards (EX8Z) of 8 conventional lines each.

The panel can be expanded to a maximum of 31 expansion boards for total number of 248 resistive monitored conventional lines. The panel can receive at maximum **32 detectors and/or manual call points** on each line.

Each zone has visualization indicators which give immediate signalization of alarm, fault and enabling/disabling. All signalisations of the panel are available through display, LEDs, and piezoelectric buzzer. Control functions are available on a membrane keyboard.

ALPHA 16/248 is recommended for large conventional installations.

Main characteristics

- 16 monitored conventional lines expandable to 248.
- Maximum 32 detectors and/or manual call points per line
- Monitored sounders line
- Auto powered sounders line
- Programmable open collector output
- Programmable relay module expansion board
- Level 2 access code.
- Easy management

Electrical specification	
Mains supply voltage	230V +10%/-15% ~ 50Hz/60Hz
Maximum absorbed current from mains	< 300mA
Min/max output voltage	Min=21V, max=28,5V
Batteries	2 sealed lead batteries connected in series, 12V 12Ah or 17Ah
Mechanical characteristics	
Unit dimensions (in mm)	500 x 420 x 210 (h x w x d)
Material	White metallic box
Climatic characteristics	
Operating temperature	-5°C ± 3°C... 40°C ± 2°C
Operating relative humidity	93% with no condensation

A world of fire detection equipment

ALPHA 16/248

Modular conventional fire alarm control panel from 16 to 248 zones

Outputs	
1 monitored sounders line	27V/0,5A
1 auto powered sounders line	27V/1A
1 external power supply output	27V/0,5A*
1 resettable power supply output	27V/0,5A*
1 ALARM NC/NO relay contact	27V/7A
1 Fault NC/NO relay contact	24V/1A
1 programmable AUXILIARY NC/NO relay contact	27V/7A
2 programmable open collector output (repetition of fault, pre-alarm, alarm, silence buzzer, disable)	27V/100mA
4 auxiliary input OR programmable open collector outputs	27V/100mA
Others characteristics	
Alfanuméric Display LCD	
15 led indication(Alarm, fault, disable)	
4 access level codes	
RS232 connection	

EX8Z expansion board

- 8 monitored conventional lines.
- Maximum 32 detectors and/or manual call points per line
- 2 boards already present in ALPHA 16/248

EX8R output relay module

- 8 programmable output relay module
- Maximum 8 modules on panel for a maximum of 64 programmable output relays

REFERENCE	DESCRIPTION
ALPHA 16/248	Conventional modular fire control panel (max 248 zones), equipped with 16 zones expandable to 248 - alphanumeric display 2x16 - Mimic panel integrated for 16 zones (alarm, fault, disable, test)

OPTION &ACCESSORIES

EX8Z	8 zones expansion board
EX8R	8 ways relay module
TR-SDI	Remote indicator panel with leds and function keys