PHILAE

Conventional fire detection

4 to 28 zones

PRESENTATION

▶ PHILAE is a conventional fire detection system with 4 to 28 zones.

▶ Its total capacity is 512 detectors or manual call points.(*)

▶ PHILAE consists of a basic panel to which up to 3 PHILAE_EM extension modules can be connected, each with 8 zones. This gives a maximum capacity of 28 zones.

▶ You can connect up to 32 devices per zone (manual call points, optical smoke, heat, flame detectors in standard version or intrinsically safe).(*)

▶ It is also possible to have up to 3 repearter with log events PHILAE_RP (e.g. Engine Control Room , Fire Control Room,etc ...).

▶ Simple, modular, quick and intuitive installation and operation.

(*) limit subject to compliance with the consumption conditions indicated in the product installation manual

FUNCTIONAL CHARACTERISTICS

Display

▶ The status of the zones is indicated by yellow and red LEDs.

▶ Bilingual text: English + French, other languages on request.

▶ Integrated buzzer.

▶ Identification of the zones by customizable labels.

Input

▶ 1 separate general alarm input, with a sequence of 7 short blasts / 1 long blast on the «siren» output.

Functions

▶ Configuration using microswitches.

▶ Access code for protected functions.

▶ Zone monitoring (short circuit, open circuit, no detector).

▶ Automatic switchover from main to emergency power supply with alarm.
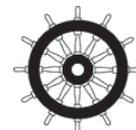
▶ repeater with log events.

Outputs

Digital outputs:

▶ « SIREN » , monitored, 24VDC of 0.5 A max.

▶ « FIRE » , dry contact, N.O., 1A.

▶ « FAULT », dry contact, N.C., 1A.

▶ « FIRE NOT ACKNOWLEDGED 2 MIN», dry contact, N.O., 1A.

Communication:

▶ Output NET1 : VDR according to standard IEC-61162-2, NMEA 0183 (ASCII, 4800 bauds 8/N/1).

▶ Output NET2 : Modbus RTU RS485 SLAVE to external equipment, (9600 bauds 8/N/1). Dedicated port if use of repeater.

APPROVALS

▶ M.E.D

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MECHANICAL CHARACTERISTICS

Dimensions (LxlxH)
- PHILAE: 178x176 mm
- PHILAE_EM: 178x176mm
- PHILAE_RP:147x107 mm

- Housing:
  138 x 130 mm

Weight
- PHILAE: 0.6 Kg
- PHILAE_EM: 0.6 Kg
- PHILAE_RP: 0.4 Kg

Mounting
- with screws from the front of the console.

ELECTRICAL CHARACTERISTICS

Power supply switching
- Automatic.

Main power supply
- 24Vdc (+30%,-25%).

Zones
- Shielded twisted pair cable with a minmum cross-section of 0.75mm².
- Cable length max. per zone :   200 m.
- 120 mA max. per zone.
- Protection of each zone by resettable fuse.

Emergency power supply
- 24Vdc (+30%,-25%).

Consumption
- PHILAE : 1,25 A max. at 24VDC.
- PHILAE_EM : 1,5A max. at 24VDC.
- 5,75 A max. for the complete system at 24VDC.
- PHILAE_RP: 0.25 A

CONNECTION OVERVIEW

power 24Vdc main + emer.

alarms

Output 24Vdc 0,5A max.

PHILAE BUS

2 serial ports VDR + MODBUS

4 zones – up to 32 detectors/zone

Up to 3 EM / 28 zones

ENVIRONMENTAL CONDITIONS

Temperature limits
- -15°C à 70°C (storage)
- +5° C à 55°C (functioning)

Humidity
- 95% RH - non condensable at 55°C

Protection rating
- IP32 (front panel)

REFERENCES & OPTIONS

- PHILAE: Fire detection panel 4 zones
- PHILAE_EM: 8 zones extension module
- PHILAE_RP: Repeater on 4" screen

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sail safely