



PHOENIX V2

Addressable fire detection



PRESENTATION

- The **PHOENIX V2** is a 24VDC fire detection panel with a total capacity of 252 addressable points, in its basic version, spread over 2 loops.
- Phoenix technology enables networking with a maximum system capacity of **10 devices, 16 loops, 2016 addressable points**.
- Each panel can be used as a fire detection panel or as a simple repeater panel.
- Each panel can display the complete configuration of the vessel.
- The «Cause & Effects» function allows you to configure the functioning of the devices such as sirens, flashes, input / output modules ... thanks to an intuitive PC software.
- The «General Alarm» function is integrated.
- Multiple connections to external equipment such as VDR, AMS, General Alarm and Public Address can be easily added via digital or RS485 interfaces.

FUNCTIONAL CHARACTERISTICS

Display

- Visual signalling:
 - Wide angle LEDs and backlit LCD screen.
 - Multilanguage texts:
Language selection on the display: French, English, Spanish.
- Audible signalling:
 - Internal buzzer, 75dB at 1m.

Functions

- 2 modes of operation : fire detection panel or repeater panel (example : ECR, crew mess, etc.).
- Disablement function available for zones, detectors and outputs.
- Test function per zone.
- Technical alarm function.
- Alarm history for all events (alarms, faults, ...)
- 3 access levels protected by code.
- General alarm function (7 short / 1 long signal).
- Synchronization of all networked panels (time & date, access codes ...)
- The software «Cause & Effects» allows to configure the functioning of devices such as sirens, flashes, input / output modules ...

Loops capacity

- Autonomous compact panel : 2 loops of 126 addressable points.
- With the expansion module PHOENIX_V2_EM: 2 loops of 126 addressable points.
- Networking of the panels (maximum of 10 panels within the limit of 16 loops, eg 8 PHOENIX_V2 + 2 PHOENIX_V2_RP): 16 loops of 126 addressable points.
- Integrated short-circuit isolator on each loop (20 detectors maximum between 2 isolators).

Configuration

- With the panel keyboard (reduced functions).
- With the PHOENIX_SOFT V2 PC software (complete functions).
- Exact identification of the zones and points (40 characters).
- Functions settings (Disabled / Enabled, input, outputs, language...).
- Possibility to configure the entire network from a single panel.

Inputs

- 1 on-off input. (DI_01)
(If not in use, can be used as 24VDC output).

Outputs

- 1 monitored output for siren (24VDC / 1A max.). (PO_01)
- 3 programmable on-off outputs (1A max.). (PO_02..PO_04)



APPROVALS

► M.E.D. - C.C.S.



MECHANICAL CHARACTERISTICS



Dimensions (LxTxH)

- Panel : 172 x 170 x 68 mm
- Front : 172 x 170 x 23 mm
- Housing : 145 x 135 mm

Weight

- 0.6Kg

Mounting

- Flush mounting
- Wall mounting (kit in option).

Material

- ABS

CONNECTION OVERVIEW

24Vdc power
Main + Emer.



3 Network links
RS485



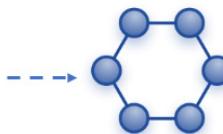
Programmable contacts
1 input + 3 outputs



24Vdc
output
1A max.



2 loops
Up to 126 addressable devices / loop



Redundant network version
Up to 10 panels / 16 loops / 2016 addr.

ELECTRICAL CHARACTERISTICS

Main power supply

- 24 VDC (-25% +30%)

Emergency power supply

- 24 VDC (-25% +30%)

Power supply switching

- Integrated, automatic.

Consumption

- 2,5A max.
- 0,2A in standby mode.

Communication

- 3 serial ports RS485 to communicate with external equipment (AMS, VDR, extinguishing system..) or for networking several PHOENIX_V2 panels.
- Available protocols: NMEA 0183 (IEC 61162-2) / Modbus RTU slave.

Loops

- Consumption = 0,05A nominal, 0,5A max.
- Cable: shielded (2 wires), 0.75mm² minimum section.
- Max. impedance allowed per loop : 24 ohms / 100nF.
- Max. cable length per loop: 500m (0.75mm²) / 1km (1.5mm²)

Network

The networking of the fire detection system is done through a redundant ring.

The network can be composed of up to :

- 5 PHOENIX_V2 (252 points per PHOENIX_V2)
- 3 PHOENIX_V2_EM (252 points per PHOENIX_V2_EM)
- 2 PHOENIX_V2_RP OR
- 8 PHOENIX_V2
- 2 PHOENIX_V2_RP

ENVIRONMENTAL CONDITIONS

Temperature limits



- -10°C to 70°C (storage)
- 5°C at 70°C (functioning)

Humidity



- 95% max. at 40°C

IP

- Protection rating IP 44 (front panel)

REFERENCES & OPTIONS

- PHOENIX_V2_RP : Remote panel
- PHOENIX_V2_EM : 2 loops expansion module
- PHOENIX_TEMPO : Timer delay for loop detector
- COF_WFCQ : Wall fixing kit for PHOENIX.
- PHOENIX_SOFT V2 : PC programming software
- CONV_RS485_USB : Converter RS485 – USB
- PHOENIX_MONITOR : Monitoring software



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sail safely

