

PHOENIX V2 ADDRESSABLE FIRE DETECTION PANEL

PHOENIX V2 is a very compact **networkable** 2 loops analogue addressable fire detection panel.
Allows decentralized configuration of up to 8 panels and 2016 detectors.
Integrates **Cause & Effects** software to program integrated I/Os and loop devices operation.

PHOENIX V2



PRESENTATION

General description

PHOENIX V2 is a 24VDC fire detection panel able to drive up to 252 addressable devices over its 2 integrated loops.

It is possible to form a network of up to 8 *PHOENIX V2*, each being used either as a fire detection panel or a simple remote panel.

Installations requiring more than 2 loops can be easily achieved using additional *PHOENIX V2* panels or *PHOENIX_V2_EM* DIN rail expansion modules (up to 3), each being able to drive 2 additional loops of 126 addressable devices.

The maximum capacity of the system is 16 loops of 126 points = 2016 addressable devices.

Each panel can display information from the complete installation; however it is configured as a fire detection panel or repeater panel.

The powerful cause & effect feature allows configuring the operation of loop devices like sounders, beacons, I/O units... through intuitive PC configuration software. Multiple connections to external equipments such as VDR, AMS, General alarm and public address systems can be easily realized through digital or serial interfaces.

Main characteristics

Human Machine Interface:

- Visible indications: Wide angle LEDs and large graphic back-lighted LCD module.
- Multilingual text display : Languages selectable from the panel : English/French/ Spanish
- Audible indications: Internal buzzer, 75dB at 1m.

Loop Capacity:

- Stand-alone compact panel: 2 loops of 126 addressable devices.
- With one *PHOENIX_V2_EM* expansion module: 2 loops of 126 addressable devices.
- Maximum Network configuration: 16 loops of 126 addressable devices (8 *PHOENIX V2* or 5 *PHOENIX V2* + 3 *PHOENIX_EM V2*).
- Integrated Short Circuit Isolator on each loop (20 detectors maximum between 2 isolators)

Functionalities:

- 2 operation modes: fire detection panel or remote alarm panel.
- Secure redundant network between panels.
- Cause & Effect software allowing fully programmable control of multiple integrated outputs and loop I/O devices, beacons and sounders.
- Synchronization of all panels (time & date, visible and audible signals)
- *General Alarm* feature (7 short / 1 long signal on outputs or loop sounder bases).
- Disabling function available for zones, detectors and outputs.
- Test function available for each zone.
- Safety centre option possible for up to 4 panels.
- Alarms history for all events (alarms, faults, acknowledgement...)
- 3 password-protected access levels.
- Easy connection to V.D.R. and Alarm & Monitoring System using standard protocols.

- Printer available as option.

Programming of the panel:

- From *PHOENIX_SOFT V2* PC software (full functionalities)
 - Accurate identification of zones and addressable devices (40 characters).
 - Functions settings (Disabled / Enabled, input, outputs, language...).
- Automatic network configuration from the main panel with integrity checking.

Electrical characteristics

Panel:

- Main power supply: 24 VDC (-25% +30%)
- Emergency power supply: 24 VDC (-25% +30%)
- Power supply Switchover: Integrated, automatic
- Consumption: 2,5A max.

Loops:

- Consumption = 0,05A nominal, 0,5A max.
- Cable: shielded cable (2 wires), 0.75mm² minimum section.
- Max. allowed impedance per loop : 24 ohms / 100nF
-> Max. cable length per loop: 500m (0.75mm²) / 1km (1.5mm²)
- Integrated short-circuit isolators (20 detectors maximum between 2 isolators)

Inputs:

- 1 dry contact input. (DI_01)
(May also be used as a 24VDC output)

Outputs:

- 1 energized (24VDC / 1A max.) monitored output for sirens (Fire alarm devices) connection. (PO_01)
- 3 dry contact programmable outputs (1A max.). (PO_02..PO_04)

Serial communications:

- 3 RS485 serial ports for communication with external equipments (AMS, VDR, extinguishing system...) or for networking multiple PHOENIX V2 panels.
- Available protocols: NMEA 0183 (IEC 61162-2) / Modbus RTU slave.

Mechanical characteristics

Mounting:

Flush console mounting.
Optional wall mounting kit available.

Dimensions (LxH) :

- Cabinet : 170mm*168mm*58mm
- Front : 170mm*168mm*23mm
- Housing : 145mm*135mm

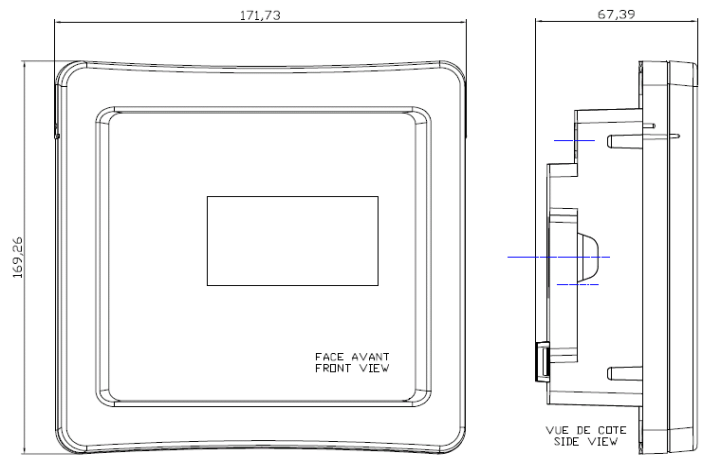
Environmental:

- Material: A.B.S.
- Weight: 0.6Kg
- I.P. rating: IP 44 (front face).
- Operation conditions: 5°C to 70°C
- Maximum humidity: 95% max. at 40°C
- Storage conditions: -10°C to 70°C

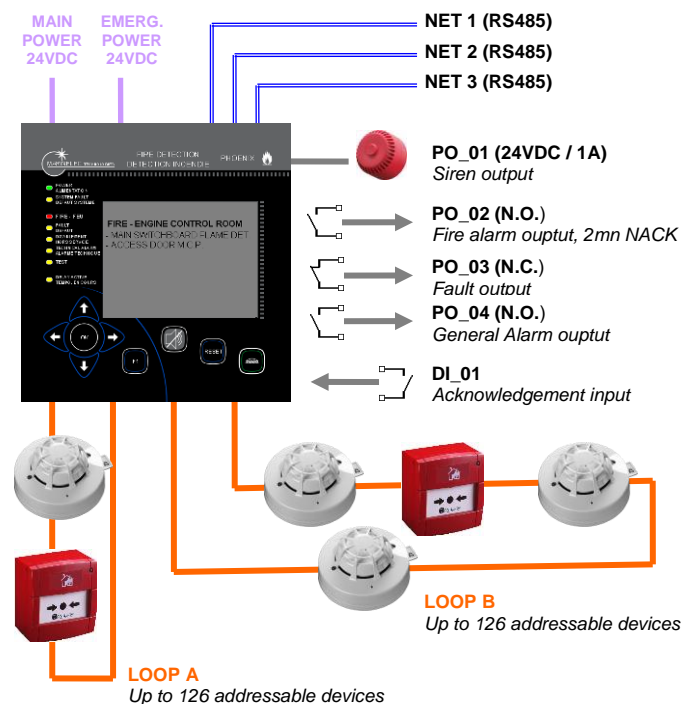
Approvals

- M.E.D.

Mechanical drawing



Connection principle



Associated products

PHOENIX V2 EM - 2 loop expansion module

Expansion module giving 2 additional loops of 126 detectors or any addressable devices to one PHOENIX V2 panel. Each loop driver includes two short-circuit isolators. The module has to be installed on a DIN rail, inside a console or cabinet and connected to one or several PHOENIX V2 panels with redundant 24VDC power supply and RS485 communication cable. Max units allowed per installation: 3.

PHOENIX TEMPO – Detector inhibition unit

Wall mounting loop-powered unit allowing the inhibition of one or several detectors for a programmable delay from (1-30minutes) from a simple rotative button in the concerned area. Typical use: workshop, garage deck.

COF WCFQ – PHOENIX panel wall mounting kit

PHOENIX Soft V2 – PC programming software

CONV RS485 USB – RS485 to USB converter