



# 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 1 m.

### 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.

### Functions

- ▶ 2 modes of operation :  
fire detection panel or repeater panel  
(example : ECR, crew mess,  
etc.).
- ▶ Disarmament 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 ...

### Inputs

- ▶ 1 on-off input. (DI\_01)  
(If not in use, can be used as 24VDC output).

### 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).

### 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 (LxH)

- ▶ 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

## 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), 0.75mm<sup>2</sup> minimum section.
- ▶ Max. impedance allowed per loop : 24 ohms / 100nF.
- ▶ Max. cable length per loop: 500m (0.75mm<sup>2</sup>) / 1km (1.5mm<sup>2</sup>)

### 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

## CONNECTION OVERVIEW



## ENVIRONMENTAL CONDITIONS

### Temperature limits

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

### Humidity

- ▶ 95% max. at 40°C

### 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 programing software
- ▶ CONV RS485 USB : Converter RS485 – USB
- ▶ PHOENIX MONITOR : Monitoring software



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sail safely

