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.

**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 4 PHOENIX V2 + 4 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).
- Disablement 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.

**PHOENIX V2**

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 4), 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.
• 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: 2A 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 (LxWxH) :
• Cabinet : 170mm*168mm*58mm
• Front : 170mm*168mm*23mm
• Housing : 138mm*130mm

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.