

# TRITON II

## Addressable Fire Detection Panel

SB-036-REV-A

TRITON II is a marine approved 2 loop analogue addressable fire detection panel. Its total capacity per loop is 126 addressable detectors, manual call points or loop devices. Extremely compact, easy to install, commission and use.

The TRITON II 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 4 TRITON II, each being used either as a fire detection panel or a simple remote panel.

Installations requiring more loops can be easily achieved using the optional TRITON II\_EM DIN rail expansion module, able to drive 2 additional loops of 126 addressable devices. One unit can be connected to each TRITON II panel. The maximum capacity of the system (4 TRITON II + 4 TRITON II\_EM) gives 16 loops of 126 = 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 and effect feature allows configuring the operation of loop devices like sounders, beacons, i/o units... through an 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.



### Functionalities

- Two operation modes: fire detection panel or remote alarm panel
- Disablement function available for zones, detectors and outputs
- Test function available for loop/zone
- Technical alarm function
- Alarms history for all events (alarms, faults, acknowledgement...)
- 3 password-protected access levels.
- General Alarm feature (7 short / 1 long signal output)
- Synchronization of networked panels (time & date, passwords...)
- Cause & Effect software allowing fully programmable control of multiple integrated or loop I/O devices and sounders

### Programming of the panel

- From the panel keyboard (restricted functionalities)
- From TRITON II\_SOFT PC software (full functionalities)
  - Accurate identification of zones and addressable devices (40 characters)
  - Functions settings (Disabled/Enabled, input, outputs, language...)
- Possibility to program the complete network from one panel

### 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

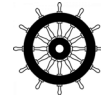
### Loop capacity

- Stand-alone compact panel: 2 loops of 126 addressable devices
- With optional TRITON II\_EM expansion module: 4 loops of 126 addressable devices
- Network configuration (maximum 4 TRITON II + 4 TRITON II\_EM): 16 loops of 126 addressable devices
- Integrated Short Circuit Isolator on each loop (20 detectors maximum between 2 isolators)

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### Approvals



► M.E.D.

### Electrical characteristics

#### Panel

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

#### Loops

- Consumption = 0.05A nominal, 0.5A max
- Cable: shielded cable (2 wires), 0.75mm<sup>2</sup> minimum section
- Maximum cable length per loop: 500m (0.75mm<sup>2</sup>) / 1km (1.5mm<sup>2</sup>)
- Integrated short-circuit isolators (20 detectors maximum between 2 isolators)

#### Inputs

- 1 dry contact input. (DI1) (If not used, may be used as a 24Vdc output)

#### Outputs

- 1 energized (24Vdc / 1A max) monitored output for sirens connection (DO1)
- 3 dry contact programmable outputs (1A max.) (PO2...PO4)

#### Serial communications

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

### Associated products

#### TRITON II\_EM - 2 loops expansion module

Expansion module giving 2 additional loops of 126 detectors or any addressable devices to one TRITON II 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 TRITON II panels with redundant 24Vdc power supply and RS485 communication cable.

#### TRITON II\_TEMPO - Detector inhibition unit

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

#### COF WCFQ - TRITON II panel wall mounting kit

#### TRITON II\_SOFT - PC programming software

#### CONV RS485 USB - RS485 to USB converter

### Mechanical characteristics

#### Mounting

- Flush console mounting
- Optional wall mounting kit available

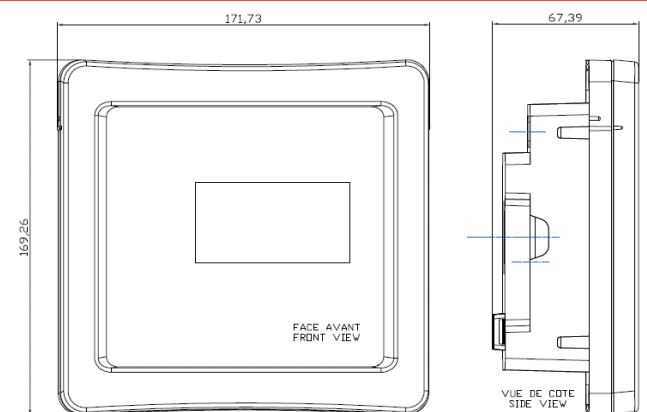
#### Dimensions (LxWxH)

- Cabinet: 170mm x 168mm x 58mm
- Front: 170mm x 168mm x 23mm
- Housing: 138mm x 130mm

#### Environmental

- Material: A.B.S.
- Weight: 0.6 kg
- 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

### Mechanical drawing



### Connection principle

