

TRITON

Addressable Fire Detection Panel

SB-036-REV-A

TRITON 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 is a 24Vdc fire detection panel able to drive up to 252 addressable devices over its 2 integrated loops (126 addresses per loop). It is possible to form a network of up to 8 TRITON, each being used either as a fire detection panel or a simple remote panel. This maximum configuration allows up to 16 loops, up to 2016 addressable devices.

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

3 types of panel are available for a network configuration:

- TRITON with display & 2 loops,
- TRITON_EM without display & with 2 loops (din-rail fixing mode). 4 panels max on a network.
- TRITON repeater with display & without loop

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 TRITON_SOFT PC software (full functionalities)
 - Accurate identification of zones and addressable devices (40 characters)
 - Functions settings (Disabled/Enabled, input, outputs, language...)
- Upgrading & Management of program by the master 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
- Network configuration (maximum 8 TRITON): 16 loops of 126 addressable devices
- Integrated Short Circuit Isolator on each loop (20 detectors maximum between 2 isolators)



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), 0.75mm² minimum section
- Maximum 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. (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 panels
- Available protocols: NMEA 0183 (IEC 61162-2) / Modbus RTU slave

Mechanical characteristics

Mounting

- Flush console mounting
- Optional wall mounting kit available

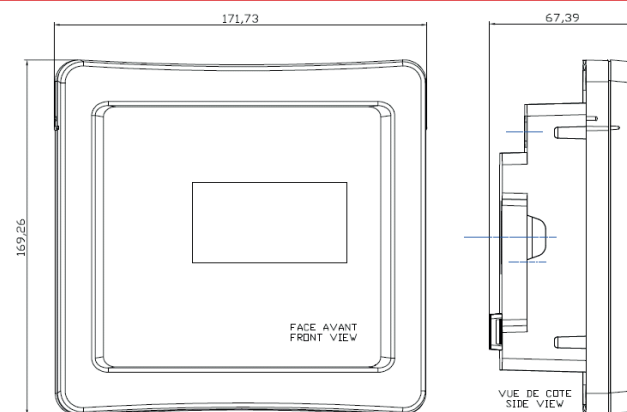
Dimensions (LxWxH)

- Cabinet: 170mm 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



Associated products

TRITON_EM - 2 loops expansion module

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

TRITON_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 panel wall mounting kit

TRITON_SOFT - PC programming software

CONV RS485 USB - RS485 to USB converter

Connection principle

