

PRODUCT DATASHEET - 12 ZONE FULLY FUNCTIONAL/PASSIVE FIRE ALARM REPEATER PANEL



PRO-SENSE

Conventional Control Panel

TI-002314

DESCRIPTION

The Pro-Sense 12 way repeater panels have the same, easy to use, controls and indications as the main control panel.

The repeaters are fully functional with 'Silence', 'Resound' and 'Reset' controls, as well as Disable and Test Mode functions. It is also possible to disable the controls for each or all repeater panels to make them passive (indication only).

The main circuit board has 2, switch -ve, inputs which can be used to sound or pulse the alarms. These inputs can also be re-programmed for use as PSU fault inputs.

The internal comms PCB has 6, switch -ve, programmable outputs.

The repeaters are supplied with a 1.25 amp internal power supply module. This module complies with the requirements of EN54-4 : 1988 and provides temperature compensated battery management charging.

KEY FEATURES

- 12 zonal fire and fault indications
- Activate controls via keyswitch or code entry
- 1.25 Amp switch mode power supply Nom 27V DC
- Class change I/P
- Alert I/P
- 6 programmable switched -ve outputs
- Test mode, with or without sounders
- Disable zones, sounder O/Ps, aux O/Ps & delays

TECHNICAL SPECIFICATION

Enclosure	1.2mm Mild Steel IP30. Colour ref: MW334E Interpon powder coat
Cable Entry	Via 20mm knockouts located in the top and rear of the cabinet
Dimensions	Back box: 300mm W x 250mm H x 80mm D, Lid: 308mm W x 260mm H x 23mm D
Mains Supply	1.25A internal switch mode power supply, Nom 27v DC
Battery Capacity	2 x 3.2Ah 12v VRSLA
Outputs	6 x programmable sw -ve outputs (included on network card)
Switch Inputs	Class change & alert (pulsing)
Communication Wiring	Fault tolerant wiring requires 4 core (min 1.5mm) fireproof cable Legacy radial wiring requires 2 core (min 1.5mm) fireproof cable

ORDER CODES

TI-002314	12 zone repeater panel
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ELECTRICAL SPECIFICATION INPUTS & OUTPUTS - MAIN PCB

PSU @ output	Power supply voltage control line	For temperature compensation control.
PSU Input + -	28vdc supply input. Diode protected for reversal and independent short circuit. Max current 3 amps.	Max input current 3 amps. Input voltage 22vdc to 32vdc
Inputs; CC, PUL	Switched -ve inputs, connect to 0v to trigger. Max input voltage = 28vdc. Non latching, max resistance 100R.	Protected via 10K Ohm impedance, 3v6 zener diode.

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ELECTRICAL SPECIFICATION INPUTS & OUTPUTS - COMMS PCB

Comms A - B	RS485	Repeater Comms, fused @ 20mA
28v	Supply output	Fused @ 500mA
Programmable outputs 1 - 6	Switched -ve outputs	Overload voltage protected to 52vdc Current limited 680R Max load = 40mA

POWER SUPPLY SPECIFICATION

Mains supply	230vac +10% / -15% 50Hz max current 1A	
Mains supply fuse	2 Amp (T2A 250V)	Not accessible for servicing. Internal to switch mode power unit
Internal power supply rating	1.5 Amps total including battery charging	Maximum load shared between outputs = 900mA
Maximum continuous load for battery standby (ImaxA)	ImaxA = 575mA	ImaxB not specified
Minimum current drawn by repeater panel	I min = 63mA	
Maximum ripple	250 millivolts	Supply and charger fault monitored
Min/max battery size and type	2 x 3.2Ahr 12volt VRLA Use Yuasa NP range batteries	Other equivalent batteries may be used but have not been tested for the purposes of EN54 approval.
Battery charging voltage	27.3 vdc nominal at 20 deg C	Temperature compensated
Battery charging output current	1.5A PSU 630mA Current limited 10 Ohms	
Battery high impedance fault (Batt Hi Z)	Resistance > 1 Ohm	1 hour reporting time
Max current drawn from batteries	1.5 Amps with main power source disconnected. Battery fuse 3A LBC 20mm	

QUIESCENT AND ALARM CURRENT DETAILS FOR STANDBY BATTERY CALCULATIONS

Base Model	Standby Current	Alarm Current
TI-002313	63mA	85mA



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