

PULSE2 ALARMSense 2-4 ZONE FIRE ALARM PANELS



PRODUCT CODES

AS-5000 - 2 Zone Pulse2 AlarmSense Panel
AS-5001 - 4 Zone Pulse2 AlarmSense Panel

KEY FEATURES

- 2 or 4 AlarmSense zones
- Activate controls via key switch or code entry
- Integral detector removal monitoring
- 1.25 Amp switch mode power supply Nom 27V DC
- 2 conventional monitored sounder outputs
- 2 Aux C/O relays (1 x Fire) (1 x Fault). voltage free
- Class change I/P & Alert I/P
- Fire & fault switched -ve outputs
- Disable zones, sounder O/Ps & aux O/Ps
- Conventional sounder circuits are fused @ 500mA with resettable fuses

Pulse2 AlarmSense is a 2 or 4 zone Apollo Fire Detectors AlarmSense protocol two-wire conventional control panel with integral power supply & space for standby batteries.

Two or four AlarmSense fire zone circuits are provided plus two additional conventional monitored sounder circuits. Fire & Fault VFCO relays, Fire & Fault switched negative outputs, class change and an alert input are also included.

AlarmSense panels support the full range of Apollo Fire Detectors AlarmSense devices.

The panels 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.

AlarmSense panels are fully approved to European standards EN54-2 & 4, Fire Detection and Alarm Systems – Control & Indicating Equipment.

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 |
| DETECTION ZONES | 2 or 4, AlarmSense protocol. EOL = 3K3R |
| SOUNDER CIRCUITS | 2 x monitored, fused @500mA. EOL = 3K3R |
| ON BOARD RELAYS | 1 x Fire, 1 x Fault, 3A, 30v volt free changeover |
| OUTPUTS | 1 x Fire, 1 x Fault 40mA switch -ve outputs |
| SWITCH INPUTS | Class change & alert (pulsing) |
| NON PRIORITY ALARM | Selectable per zone |
| COINCIDENCE ALARM | Selectable per zone |



Cert No. 810a



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SPECIFICATIONS

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. |
| 28V+, 0V- POWER OUTPUT | 28vdc supply output for fire alarm accessory relays etc. Max continuous use = 400mA. | Fused @ 500mA. Fuse = 500mA resettable fuse. |
| COMMON FIRE RELAY | Fire relay contact. Clean C/O. Max 3A @ 30vdc. | Unfused |
| COMMON FAULT RELAY | Maintained fault relay contact. Clean C/O Max 3A @ 30vdc. | Unfused |
| OUTPUTS; FR, FLT | Switched -ve voltage outputs for relay control. | Overload voltage protected to 52vdc. Current limited 680R. Max load = 40mA |
| 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. |
| SND R 1 - 2 | 28vdc polarity reversal monitored sounder outputs to fire alarm devices. 3K3 Ohm 5% 0.25W EOL resistor. | Monitoring current limit 28mA, fused @ 500mA. Typical max load 22 devices @ 18mA each per circuit. Ensure 0.9A is not exceeded. |
| ZONE 1 - 4 | AlarmSense fire alarm zone circuits. 3K3 Ohm 5% 0.25W EOL resistor. | Monitoring current limit 50mA, fused @ 200mA. Typical max load 20 alarm devices @ 18mA each per circuit. Ensure 0.2A is not exceeded. |

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 = 0.9A |
| POWER SUPPLY OUTPUT VOLTAGE | 19.92 - 30.09vdc | Tolerance +/- 0.1% |
| MAXIMUM CONTINUOUS LOAD FOR BATTERY STANDBY (IMAXA) | ImaxA = 575mA | ImaxB not specified |
| MINIMUM CURRENT DRAWN BY PANEL (EXAMPLE) | 4 Zone I min = 85mA | 2 Zone I min = 75mA |
| MAXIMUM RIPPLE | 120 mV p-p | 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

| MODEL | STANDBY CURRENT | ALARM CURRENT |
|---------|-----------------|---------------|
| AS-5000 | 75mA | 116mA |
| AS-5001 | 85mA | 133mA |

Specifications are subject to change without notice

