

## ESPRIT<sup>®</sup> Apollo

### 1-4 Loop Analogue Addressable Control Panel

The Esprit 1-4 loop analogue addressable control panels have been developed to provide a simple to use and cost effective, robust solution for the intelligent fire systems market.

Extendable up to four loop circuits, and with up to 240 devices per loop, the control panels' compact styling and programming power makes it ideal for all small and medium site requirements.

The large graphical display with easy to navigate menus provide fast and simple setup and maintenance.

Esprit-A panels support the range of Apollo protocol devices including their range of wireless accessories and soteria devices.

The panels are supplied with a 3.4Amp internal switch mode power supply module.

Esprit-A panels are approved to European standards; EN54-2 & EN54-4.



## Features

### Main Features

- One to four loops
- 2 programmable sounder circuits
- Large graphical display
- 255 date and time stamped event logs
- Auto learn function
- 240 devices per loop soteria
- False alarm management
- Programmable company logo
- Delays to outputs
- 64 programmable groups
- 36 zonal LEDs
- 3.4A integral PSU
- Approved to EN54-2 & EN54-4
- Robust metal enclosure

### Technical specifications

|                        |   |
|------------------------|---|
| 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: 450 W x 385 H x 100 D (mm), Lid: 463 W x 394 H x 25 D (mm)      |
| Mains supply           | Universal switch mode PSU, 230Vac $\pm$ 10% 50Hz, 1.2A input current      |
| Battery capacity       | Up to 18 Ah 24V, Fire retardant   |
| Charger current        | 1.2A  |
| Auxiliary supply       | 400mA, 28V  |
| Loop                   | Apollo Protocol. Up to 4 loops. Each loop - 500mA, Cable length - 1km max |
| Sounder circuits       | 2 x 400mA 28V DC  |
| Switch inputs          | CC, PULS  |
| Event log              | 255 events, time & date stamped   |
| Earth fault monitoring | Yes   |
| Display                | 240 x 64 Graphical LCD backlit  |

### Models

|          |   |
|----------|---|
| ESA-1007 | One loop Apollo addressable control panel (extendable to fourloops) |
| ESA-3006 | Loop extension card - Apollo protocol                               |



# Specifications

## Electrical Specification Inputs & Outputs

|                           |   |  |
|---------------------------|---|--|
| Common Fire Relay         | Fire relay contact. Clean C/O. Max 3A at 24VDC.   | Unfused  |
| Common Fault Relay        | Maintained fault relay contact. Clean C/O Max 3A at 30VDC.  | Unfused  |
| Inputs: CC, PULSE         | Switched -ve inputs, connect to 0v to trigger.  | Protected via 10K Ohm impedance, 3v6 Zener diode.  |
| SOUNDERS 1 and 2          | 28VDC polarity reversal monitored sounder outputs to fire alarm devices. End of line resistor: 6K8 Ohm 5% 0.25W EOL resistor. | Monitoring current limit 28mA, fused at 500mA. Typical max load 22 devices at 18mA each per circuit. |
| LOOP                      | 500mA, 240 devices per loop, Maximum cable length 1Km.  |  |
| Number of detection zones | 1 to 4 loops  | 1 to 36 Detection Zones  |

## Power Supply Specification

|                                 |   |  |
|---------------------------------|---|--|
| Mains Supply                    | Universal switch mode PSU, 230Vac $\pm$ 10% 50Hz, 1.2A input current. |  |
| Internal power supply rating    | 3.4 Amps total including battery charging                             | Maximum load shared between outputs = 2.2A |
| Battery charging output current | 1.2A current limited  | Charging suppressed during alarm condition |
| Battery type                    | YUASA NP18-12 (12V 17.2Ah), fire retardant                            |  |
| Maximum quiescent current       | 110mA at 28V, one loop  |  |

## Quiescent and Alarm Current Details for Standby Battery Calculations

| Models                            | Standby Current | Alarm Current |
|-----------------------------------|-----------------|---------------|
| ESA -1007, one to four loop panel | 110mA           | 160mA         |
| ESA- 3006, Loop Card              | 25mA            | 25mA          |