

ESPRIT[®] 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