



# FIRE CONTROL PANELS – INTELLIGENT ESPRIT 2- & 4-LOOP RANGE



ESPRIT INTELLIGENT FIRE ALARM  
CONTROL PANELS

## DESCRIPTION

The Technoswitch ESPRIT addressable control panels deliver a simple-to-use, cost-effective and robust solution for the intelligent fire systems market. The panels' compact styling and programming power make it ideal for small and medium site requirements.

The ESPRIT Apollo panel range supports the full range of Apollo protocol devices, including their wireless and Soteria products.

The 1–2 loop model is extendable to two loop circuits, and the 1–4 loop model to four loop circuits.

The ESPRIT panel range supports Apollo & Hyfire protocol devices:

### Wired Device Protocol

- Apollo XP95/Discovery (126 addresses per loop)
- Apollo Core/Soteria (240 Addresses per loop)

### Wireless Device Protocol

- Apollo Reach (126 Addresses per loop)
- Hyfire (240 Addresses per loop)

The panels have a 3.4 Amp internal switch mode power supply module.

The large graphical display with easy-to-navigate menus provides fast, straightforward setup and maintenance.

## FEATURES

### ESPRIT 2-Loop Panel

- One to two loops
- 18 zonal LEDs

### ESPRIT 4-Loop Panel

- One to four loops
- 36 zonal LEDs

### ESPRIT Range

- Repeater panel available
- Two programmable sounder circuits
- Large graphical display
- 255 date- and time-stamped event logs
- Auto learn function
- False alarm management
- Programmable company logo
- Loop fault diagnostics
- Delays to outputs
- 64 programming groups
- 3.4 Amp integral PSU
- Robust metal enclosure
- Approved to EN54-2 & EN54-4
- 3-year warranty



KM 663489  
BS EN 54-2 & 54-4





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## SPECIFICATIONS

### GENERAL

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 (W × H × D)	
2-Loop	355 × 310 × 85 mm
4-Loop	463 × 395 × 105 mm
Mains Supply	Universal switch mode PSU, 230V AC ± 10% 50Hz, 1.2A input current
Battery Capacity	
2-Loop	Up to 7 Ah 24V, Fire retardant
4-Loop	Up to 18 Ah 24V, Fire retardant
Internal Power Supply Rating	
2-Loop	3.4 Amps total including battery charging. Maximum load shared between outputs = 2.7 A
4-Loop	3.4 Amps total including battery charging. Maximum load shared between outputs = 2.2 A
Charger Current	
2-Loop	700mA
4-Loop	1.2A
Auxiliary Supply	400mA, 28V
Loops	
2-Loop	Up to 2 loops. Each loop - 500mA, Cable length - 1 km max.
4-Loop	Up to 4 loops. Each loop - 500mA, Cable length - 1 km max.
Sounder Circuits	2 × 400mA 28V DC
Event Log	255 events, time & date stamped
Earth Fault Monitoring	Yes
Display	240 × 64 Graphical LCD backlit
Maximum Quiescent Current	110mA at 28V, one loop
Quiescent and Alarm Current Details for Standby Battery Calculations	
	Standby Current      Alarm Current
HA-ESA-2L	110mA      160mA
HA-ESA-4L	110mA      160mA
HA-ESA-4L Loop card	25mA      25mA

### ELECTRICAL INPUTS & OUTPUTS

Common Fire Relay	Fire relay contact. Clean C/O. Max 3A at 24V DC. Unfused.
Common Fault Relay	Maintained fault relay contact. Clean C/O Max 3A at 24VDC. Unfused.
Switch Inputs	CC, PULSE. Switched -ve inputs, connect to 0v to trigger. Protected via 10K Ohm impedance, 3v6 Zener diode.
Sounders 1 and 2	28V DC 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 Apollo XP95/Discovery: 126 Addresses per loop Apollo Core/Hyfire: 240 Addresses per loop Maximum cable length 1 km
Number of Detection Zones	
1–2 Loop Panel	1 to 18 detection zones
1–4 Loop Panel	1 to 36 detection zones

## ORDERING INFORMATION

Product Code	Product Description		
HA-ESA-2L-APO	1–2 Loop ESPRIT panel, Apollo	HA-ESA-REP	ESPRIT Addressable Repeater
HA-ESA-4L-APO	1–4 Loop ESPRIT panel, Apollo	HA-ESA-NET	ESPRIT panel network card
HA-ESA-LC-APO	ESPRIT 1 Loop Expansion Card (Apollo)	HA-ESA-NET-BMS	ESPRIT panel network card with BMS Interface
		HA-ESA-EMCTF	EMC Tube Ferrite for Loop wiring
HA-ESA-2L-HYF	1 - 2 Loop ESPRIT panel, c/w 1 loop card, Hyfire		
HA-ESA-4L-HYF	1 - 4 Loop ESPRIT panel, c/w 1 loop card, Hyfire		
HA-ESA-LC-HYF	ESPRIT 1 Loop Expansion Card (Hyfire)		

• **DISCLAIMER:** Although the contents of our product literature have been prepared with the greatest care, Technoswitch can accept no liability whatsoever for any direct or indirect damages of any kind that may arise due to either errors or omissions in them, or amendments to products or other specifications following publication.

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**HEAD OFFICE — JOHANNESBURG**  
Cussonia Park, 3 Ridge Road, Laser Park, Johannesburg **T** +27 (0)11 794 9144 **E** info@technoswitch.co.za  
**CAPE TOWN** **T** +27 (0)21 948 4575 ■ **DURBAN** **T** +27 (0)31 266 8843

**www.technoswitch.co.za**

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