

HAES-1L - HAES-2L - HAES-4L

INTELLIGENT ADDRESSABLE FIRE ALARM CONTROL PANEL





Mains supply

EN54-2 EN54-4

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
- False alarm management
- ▶ Programmable company logo
- Loop fault diagnostics
- ▶ 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 coat4,5 W

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) Universal switch mode PSU, 3.4A

Battery capacity Up to 18 Ah 24V

Charger current 1.2A

Auxiliary supply 400mA aux supply output (21-28vdc)

Loop Argus Protocol. Up to 4 loops.

Sounder circuits Each loop - 500mA maximum current

2 x 400mA 21-28vdc

Switch inputs CC, PULS

Event log 255 events, time & date stamped

Earth fault monitoring Yes

Display 240 x 64 Graphical LCD backlit



Electrical Specification Inputs & Outputs			
Common fire relay	Fire relay contact. Clean C/O. Max 3A at 30VDC.	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. Max input voltage = 30VDC. Non-latching, max resistance = 100R.	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.	
PBUS Output + / -	RS-485	RSU Comms, fused at 20mA	
Zone normal threshold	Minimum 192 analogue value	Analogue value within (0 – 255)	
Temp Sense Input	Input for connection of battery temperature sensor. Attach to central point of sealed lead acid battery pair.	Thermistor TTC5103 10,000 Ohms at 25°C.	
LOOP	Addressable circuit	Maximum current limit 500mA. Max 240 devices per loop.	
Number of detection circuits	1 to 4 loops	1 to 36 Detection Zones	

Power Supply Specification		
Mains supply	230vac +10% / -15% 50Hz max current 0.347Amp (35W) 1.08A (100W)	
Internal power supply rating	3.4 Amps total including battery charging	Maximum load shared between outputs = 3A
Power supply output voltage	19.8 - 29.7vdc	Tolerance +/- 0.1%
Battery charging voltage	27.3VDC nominal at 20°C	Temperature compensated
Battery charging output current	1.2A current limited	Charging supressed during alarm condition
Min/max battery size and type	2 x 17.2Ah 12v VRLA.	
Battery type	YUASA NP18-12 (12V 17.2Ah)	
Maximum quiescent current	Approx. 370mA at 28V	

Quiescent and Alarm Current Details for Standby Battery Calculations			
Models	Standby Current	Alarm Current	
ESA-1002- one to four loop panel	360mA	3000mA	