eurotech®
FIRE SYSTEMS LIMITED

Version 1.2/26

Omnis 1 to 4 Loop Analogue Addressable Control Panel (OMN-V1002/OMN-A1002)

The OMNIS 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 240/254 devices per loop (protocol dependent), 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.

Omnis panels support the full range of Eurotech and Odyssey protocol devices including their range of wireless accessories.

The panels are supplied with a 3.4 amp internal switch mode power supply module. This module complies with the requirements of EN54-4 : 1998 and provides temperature compensated battery management charging.

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

KEY FEATURES

- One to four loops
- 2 sounder circuits
- Large graphical display
- 255 date and time stamped eventlogs
- Auto learn function
- 240/254 devices per loop dependent on protocol
- False alarm management
- Programmable company logo
- Loop fault diagnostics
- Delays to outputs
- 128 programmable groups
- 36 zonal LEDs
- 3.4A integral PSU
- Approved to EN54-2 & EN54-4
- Robust metal enclosure

Part Numbers	
OMN-V1002	1-4 Loop Fire Panel - Eurotech Protocol
OMN-A1002	1-4 Loop Fire Panel - Odyssey Protocol
OMN-VLOOP	Addressable Loop Card Kit - Eurotech Protocol
OMN-ALOOP	Addressable Loop Card Kit - Odyssey Protocol

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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: 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, 3.4A
Battery capacity	Up to 18 Ah 24V
Charger current	1.2A
Auxiliary supply	400mA aux supply output (21-28vdc)
Loop	Up to 4 loops. Each loop - 500mA maximum current
Sounder circuits	2 x 400mA 21-28vd
Switch inputs	CC, PULS
Event log	255 events, time & date stamped
Earth fault monitoring	Yes
Display	240 x 64 Graphical LCD backlit

ELECTRICAL SPECIFICATIONS

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 outputsto 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 240/254 devices per loop (protocol dependent)
Number of detection circuits	1 to 4 loops	1 to 36 Detection Zones

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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 suppressed 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	Standby Current	Alarm Current
OMN-V1002 - one to four loop panel	1 loop 134mA	200mA
OMN-A1002 - one to four loop panel	1 loop 134mA	200mA
OMN-VLOOP Loop Card	60mA	
OMN-ALOOP Loop Card	60mA	

All equipment must be designed, installed, commissioned, maintained, and serviced by a competent person in accordance with relevant standards and guidelines. Failure to do so may invalidate the product warranty.

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