SR-P1OR /SR-P2LR

1 Loop / 2 Loops

SIGNALING UL LISTED FM APPROVED

OMEGA Addressable Fire Alarm Control Panel

Product Overview

SHIELD Omega is a versatile range of open protocol fire alarm control panels compatible with existing SHIELD Omega fire alarm panel technology.

Available with one or two detection loops for a total of 250 primary points or 400 points using subpoints. SHIELD Omega uses leading edge microprocessor based electronics to provide a flexible control system with high reliability and integrity.

Suitable for all small to medium sized fire detection systems, SHIELD Omega control panels can be expanded and networked to become part of much larger systems if the need arises, therefore providing a future proof solution for any installation.

With its large graphical display and ergonomic button and indicator layout, the SHIELD Omega control panel is simple and straight forward to understand for installers, commissioning engineers and end users.

Standard Features

- One full SLC circuit expandable to two.
- 3 programmable relays.
- 5.25 A power supply.
- Large graphic display.
- Real time clock.
- Compatible with graphics annunciator.
- Powerful, network wide cause and effects (500 total).
- Fully user programmable by point or zone.
- Can be networked with additional panel and / or SHIELD Omega panels.
- Compatible with Omega R Annunciator.
- Programmable through a PC connection to the panel.
- Same look and feel as SHIELD Omega range.
- Stores 1000 last events in history log.
- Model ranges include with or without a Dual-Line internal DACT.
- Compact, stylish enclosure.
- Available in Red or Grey.
- 2 Programmable NAC circuits with internal synchronization support.
- IP30 .

Added Features

SHIELD OMEGA with Internal Modem/DACT

- Dual line digital communicator & modem.
- Central Station reporting; SIA and Contact ID.
- On-board loop start terminal connections for both primary and secondary Telco lines.

SHIELD OMEGA with Ether/DACT

- Dual line digital communicator and modem.
- Central Station reporting; SIA and Contact ID.
- Phone line jacks – RJ-11 (two).
- Modem speed: 33.6 Kbps for program downloading.
- Virtual panel capability via Ethernet.

Note: Specifications are subject to change without notice

SHIELD OMEGA with Network Interface Card

- Network uses standard Cat 5 cabling.
- Upto 610 m between adjacent panels.
- 115 Kbps constant network speed.
- TCP and UPD communications through Omega-N.
- Total network delay less than 3 seconds with 64 panels.
- Network jacks – RJ-45 (Omega-N and Ethernet).
- Mapped Network; Display messages for Any or All nodes.

SHIELD OMEGA with Media Gateway®

- All the features of the Ether/DACT and NIC plus.
- Enables network programming with direct TCP/IP access to each panel.

Technical Data

Construction	16 AWG Sheet Steel
Finish (lid & box)	RAL3002 (Red) or BS00A05 (Grey)
Finish (product labels)	BS00A05 (Grey)
Mains Voltage Supply	230 V AC 50 or 60 Hz.
Mains Supply Fuse	1.6 A 250 V
Power Supply DC Rating	24 V 5.25 A
Aux 24V Supply	Fused at 500 mA
Battery (24 hour standby)	9 Ah 12 V (2 per panel) (non-networked)
Fault Contact Rating	30 V DC 1 A
Alarm Contact Rating	30 V DC 1 A
NAC Output Rating	3.1 V Across Both Channels, 2.3 V Across Anyone
Detection Loop	250 mA Output
Serial Expansion Port	Serial RS485
PC Port	Serial RS232
Network Connection	Optional Network Cards Allow The Use Of SHIELD Omega-N Interface SA-EI
NAC Synchronization	Internal Support
NAC Protocols	System Sensor, Wheelock, Gentex, Amseco
Dimensions (W x H x D)	369 mm x 480 mm x 108 mm
Weight (without batteries)	9070 g
IP Rating	30

Ordering Information

SR-P10R	Omega Single Loop Panel (RED)
SR-P10G	Omega Single Loop Panel (GREY)
SR-P2LR	Omega Two Loop Panel (RED)
SR-P2LG	Omega Two Loop Panel (GREY)

Note: Specifications are subject to change without notice

SA-P2OR /SA-P4LR

2 Loops / 4 Loops

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OMEGA-X Addressable Fire Alarm Control Panel

Product Overview

The SA-P20R and SA-P4LR analog addressable FACP supports 2 or 4 SLC loops for a total of 500 primary points or 800 points using subpoints. SLC loop communications uses standard twisted pair cabling, shielded cable is not necessary.

The panel may be configured with various communication cards; Communications options support central station monitoring, virtual panel, and networking. The panel can be configured as a stand alone panel with just a few devices for a small building, it can also operate as the building system and can be part of a network with a total of 64 nodes serving a multiple building campus or a very large facility.

Auto Learn capability provides a convenient method to troubleshoot new installations before final programming is loaded.

Standard Features

- UL 864 9th Edition listed.
- Multi-Loop 2 Analog Addressable Loops Field upgradable to 4.
- 126 primary points per loop.
- Powerful, network wide cause and effects (500 total) .
- Fully user programmable by point or zone.
- 800 points per panel when using devices with sub-points.
- Up to 3048 m wiring length on SLC loop.
- 64 Panels on a network.
- Programmable through a PC connection to the panel, or through keypad.
- Programmable relays – 5.
- Supervised Powered Outputs – 3.
- 4 Programmable notification appliance circuits.
- Power per NAC: 1.6 A maximum.
- Programmable outputs on SLC loop.
- Programmable Function button on front display.
- Fire Drill button on front display.
- Day and night sensitivity settings (user programmable).
- Power Supply: 5.25 A regulated & integrated.
- LCD Display: 8x40.
- Zonal Mode: Annunciation by zone w/o individual relationships.
- Panel Ring Modes: Common, Zonal, and Stage 2.
- NAC Outputs programmable.
- Continuous, March, Temporal.
- Program cause and effects AND, OR, or any two (Cross Zone).
- Battery size: Up to 17 Ah in standard enclosure; up to 52 Ah with external cabinet.
- Access levels: 3.
- Access key switch: Yes.
- Recognized for use in High Rise Buildings.
- One-man walk test – Fire Test Mode.
- Available in Red.
- IP30.

Note: Specifications are subject to change without notice

SHIELD Omega-X with eNET

- Network uses standard RS485 cabling.
- Up to 610 m between adjacent panels.
- 115 Kbps constant network speed.
- Secure, fault tolerant communication.
- Up to 64 nodes.

SHIELD Omega-X with DACT

- Dual line digital communicator & modem.
- Contact ID and SIA reporting.
- UL 864 9th edition listed.
- Zone or point reporting.
- Backup and duplicate reporting.

Technical Data

Primary AC	230 V AC @ 2 A, 50 or 60hz
Output DC	24 V DC @ 4 A
Power Supply	5.25 A Regulated and Integrated
Charger Current	1.25 A Max.
Finish (lid & box)	RAL3002 (Red) or BS00A05 (Grey)
Display	8 Line x 40 Character LCD (320 characters total)
Zones	500 Zones Per Network
SLC Loops	2 or 4 (class A or B)
Devices Per Loop	126 Sensors & Modules (800 addresses + sub addresses max. per panel)
NAC Outputs	(4) 1.6 A @ 24 V DC (class B)
Relay Outputs	(5) Form C 1 A @ 30 V DC
Voltage Outputs	(3) 500 mA @ 24 V DC, Reverse Polarity Supervised
Aux. Power	500 mA @ 24 V DC
Aux. Inputs	(3) Digital Pull Downs
Current Consumption	
SA-P2OR	355 mA Standby 650 mA Alarm
SA-P4LR	455 mA Standby 765 mA Alarm
Dimensions (W x H x D)	369 mm x 610 mm x 127 mm
Weight (without batteries)	11400 g
IP Rating	30

Ordering Information

SA-P20R0	Omega-X Two Loop Panel (RED)
SA-P20G0	Omega-X Two Loop Panel (GREY)
SA-P4LR0	Omega-X Four Loop Panel (RED)
SA-P4LG0	Omega-X Four Loop Panel (GREY)
SA-P20R3	Omega-X Two Loop Panel With Printer
SA-P4LR3	Omega-X Four Loop Panel With Printer

Note: Specifications are subject to change without notice