



## ORION-EX V2

### Conventional Fire Detection & Extinguishing Panel

The ORION-EX Conventional Fire Detection and Extinguishing Panel offers a creatively designed and aesthetically pleasing solution to satisfy the growing demand for dependable Fire Detection & Suppression Systems.

The ORION-EX is designed and manufactured to comply with EN54-2, EN54-4 and EN12094-1 standards. The outstanding programmable features included in this panel are best suited to be installed in expensive housing areas and in general in all areas where loss of equipment can partially or totally disrupt the proper functioning of a business. Operation is extremely intuitive, offering simple control and one-button disablement facilities, as well as the one man test mode which provides simple and efficient testing of the system.

Advanced configuration solutions include the following: programmable pre-release and discharge times, electrovalve and flow switch status indications, manual and abort remote activation. There are 4 normal fire detection zones. All inputs are fully monitored for both Fire, Activation and Fault Conditions.

ORION EX system is complemented with dedicated repeater panels, addressable interfaces, output expansion boards as well as manual & abort call-points for remote extinguishing cycle control.

#### MAIN FEATURES

- 4 Fire Detection Zones: 2 crossed Zones and 1 individual Zone linked with automatic extinguishing cycle; 1 Zone dedicated only for fire detection which doesn't activate automatic extinguishing cycle
- Up to 32 conventional devices (smoke and/or heat detectors and call-points) per zone
- Active End of Line for Zone wiring monitoring (10uF/50V bipolar capacitor)
- Programmable Pre-Release and Extinguishing times
- Monitored inputs for Manual Extinguishing Cycle Activation and Remote Abort
- Electrovalve solenoid and Weight/Flow/Pressure Switch Status monitoring
- Supervised auxiliary 24-volt supply output
- 3 Supervised/monitored output circuits
- 1 Remote reset input
- 2 Relay outputs for fire and fault status indication
- Dedicated repeater panel and analogue loop interface
- Additional outputs via MPX-REL & MPX-SNDR modules
- EN54-2, EN54-4 and EN12094-1 fully compliant.

**TECHNICAL SPECIFICATIONS**

<b>PRIMARY SUPPLY VOLTAGE - IN</b>	230V AC +10% -15%
<b>PRIMARY SUPPLY VOLTAGE- OUT</b>	28.5V DC nominal
<b>PRIMARY SUPPLY CURRENT-OUT</b>	1.7A @ 28.5V DC nominal (max.)
<b>SECONDARY SUPPLY VOLTAGE</b>	21.0 min. - 27.2 max. V DC - BAT charger o/p 28V DC
<b>SECONDARY SUPPLY CURRENT OUTPUT</b>	1.85 Amp maximum @ 20°C
<b>INTERNAL BATTERY CAPACITY - MAXIMUM</b>	2 x 12V x 7Ah Sealed VRLA Lead Acid Batteries
<b>MAINS FUSE</b>	4 A 250 V Slow Blow - 20 mm
<b>BATTERY FUSE</b>	1.85 Amp - Resettable
<b>NUMBER OF DETECTION ZONES</b>	4
<b>ZONE CURRENT - QUIESCENT / ALARM</b>	10 mA / 60 mA maximum
<b>MAX. CABLE RESISTANCE / CAPACITANCE</b>	40 Ohms / 0.470 uF
<b>END OF LINE MONITORING</b>	Active EOL - 10uF/50V Bipolar Capacitor
<b>BS5839 DETECTOR REMOVAL COMPLIANT</b>	YES provided diodes are fitted to detector base
<b>DEVICES PER ZONE</b>	32 maximum - EN54 pt.2
<b>ALARM RESISTANCE VALUE: INPUTS</b>	270 - 1000 Ohms
<b>MAXIMUM CURRENT: OUTPUTS</b>	1,85A maximum current drive for both S1 & S2 circuits; 100 mA for RM output
<b>VOLTAGE OUTPUT</b>	27.5V DC nominal
<b>END OF LINE RESISTOR: S1 &amp; S2; RM</b>	S1 & S2: 10K Ohms - 1/4 Watt; RM: 4K7 Ohms - 1/4 Watt
<b>AUXILIARY RELAY OUTPUT</b>	1 Fire (COM-NC-NO) - 1 Fault (COM-NC) non-supervised
<b>RELAY CONTACT RATING</b>	30V DC - 2A / 230V AC - 0.25A (resistive loads)
<b>FULLY MONITORED INPUTS</b>	Remote Activation, Remote Abort, Solenoid Status, Flow/Pressure Switch Status
<b>EVACUATION AND RESET</b>	Non-Latching - Voltage free contact
<b>MAXIMUM HUMIDITY</b>	95% RH Non-Condensing
<b>PROTECTION RATING</b>	IP30
<b>OPERATING TEMPERATURE</b>	-10°C to 50°C
<b>WEIGHT</b>	1.7 Kg - 7 Kg (inc. 2 x 7 AH 12 V bat.)
<b>DIMENSIONS</b>	273 (L) x 107 (W) x 404 (H) mm
<b>COLOUR</b>	White or Red

**ORDER CODE****ORION-EX V2**

CONVENTIONAL FIRE DETECTION &amp; EXTINGUISHING PANEL