



ORION-PLUS

Expandable Conventional Fire Detection Panel

The ORION-PLUS range of expandable conventional control panels offers an aesthetically pleasing and functional cabinet design for larger projects demanding ease of installation and commissioning, as well as simple operation, typical of conventional installations.

The unit can be expanded easily from 8 to 16 zones in regular box and 20 to 32 in large box version. Expansion is made by installing additional modules with 4 zones. The range also includes two types of repeater.

The outstanding programming features included in this panel range exceed the possibilities of standard conventional panels, using a graphic LCD display and real time clock which permits the recording of events in a time stamped log.

Operation is intuitive, offering simple control and one-button disablement facilities, as well as a one man test routine, which provides a highly effective way to perform regular testing of the fire alarm system.

Advanced configuration interfacing includes RS232, RS422/485, Fibre Optic, GSM-GPRS and TCP/IP. All of the above making use of our own proprietary interfaces.

These allow for connection to up to 4 remote repeater panels, extinguishing interface modules and multiplexed output relays, giving one of the highest levels of system integration possible in conventional systems.

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ORION-PLUS

Key Features

- ▶ 8 Zone expandable control panels with a maximum of 16 zones
- ▶ 20 Zone expandable control panels with a maximum of 32 zones (Large Box version)
- ▶ Up to 32 conventional smoke and/or heat detectors per zone
- ► Zone expansion via 4 zone expansion module (GFE-EXP-MOD)
- ▶ Active or Resistive End of Line monitoring
- ▶ Programmable non-latching zones
- Programmable on/off delay timer per zone
- Programmable coincidence for adjacent zones
- One man test
- Supervised auxiliary 24 volt output
- ▶ 2 Supervised/ monitored sounder circuits
- > 3 Programmable remote inputs.
- > 2 Relay outputs 1 fire and 1 fault
- Fully EN54-2 and EN54-4 compliant
- ▶ Repeater output using RS232, RS485, Fibre Optic and TCP/IP

| SUPPLY SPECIFICATION | |
|--------------------------------------|--|
| PRIMARY SUPPLY VOLTAGE - IN | 90 to 265 V AC |
| PRIMARY SUPPLY VOLTAGE - OUT | 28.5 V DC nominal |
| PRIMARY SUPPLY CURRENT - OUT | 1.7 A @ 28.5 V DC nominal (max.) |
| SECONDARY SUPPLY VOLTAGE | 21.0 min 27.2 max. V DC - BAT charger o/p 28 V DC |
| SECONDARY SUPPLY CURRENT OUTPUT | 1.1 Amp Maximum @ 20°C |
| NTERNAL BATTERY CAPACITY - MAXIMUM | 2 x 12 V x 7 Ah Sealed VRLA Lead Acid Batteries |
| MAINS FUSE | 4 A -250 V Slow Blow - 20 mm |
| BATTERY FUSE | 1.6 Amp - Resettable |
| DETECTION CIRCUIT SPECIFICATION | |
| NUMBER OF CIRCUITS | 16 Max. |
| ZONE CURRENT - QUIESCENT / ALARM | 4 mA / 60 mA - Maximum |
| MAX. CABLE RESISTANCE / CAPACITANCE | 40 Ohms / 0.470 uF |
| END OF LINE MONITORING | Active EOL - 10uF/50V Bipolar Electrolytic Aluminium Capacitor |
| BS-5839 DETECTOR REMOVAL COMPLIANT | YES (provided diodes are fitted to detector base) |
| DEVICES PER ZONE | 32 Maximum - EN54 pt.2 |
| ALARM RESISTANCE VALUE | 270 - 1000 Ohms |
| SOUNDER CIRCUIT SPECIFICATION | |
| CURRENT OUTPUT | 2 outputs w/ 500 mA max. current drive per circuit - fully monitored |
| ALARM VOLTAGE / END OF LINE RESISTOR | 27.5 V DC Nominal / 10 K Ohms - 1/4 Watt |
| AUXILIARY OUTPUTS SPECIFICATION | |
| AUXILIARY RELAY OUTPUT | 1 Fire (COM-NC-NO) - 1 Fault (COM-NC) non-supervised |
| RELAY CONTACT RATING | 50 V DC - 1 Amp resistive loads |
| REMOTE INPUT SPECIFICATION | |
| PROGRAMMABLE INPUT 1 | Non-Latching - Voltage free contact |
| PROGRAMMABLE INPUT 2 | Non-Latching - Voltage free contact |
| MECHANICAL & OPERATING SPEC. | · |
| HUMIDITY | Max 95% RH Non-Condensing |
| OPERATING TEMPERATURE | -10°C to 50°C |
| WEIGHT (ORION-PLUS) | 2 Kg without batteries, 7 Kg with batteries (2 x 12 V x 7Ah) |
| WEIGHT (ORION-PLUS-L) | 2 Kg without batteries, 7 Kg with batteries (2 x 12 V x 7Ah) |
| DIMENSIONS (ORION-PLUS) | 273 (L) x 107 (W) x 404 (H) mm |
| DIMENSIONS (ORION-PLUS-L) | 375 (L) x 345 (W) x 139 (H) mm |
| COLOUR | White or Red |
| ORDER CODE | |
| ORION-PLUS 8 | 8 ZONE EXPANDABLE TO 16 ZONE CONVENTIONAL FACP / REGULAR BOX |
| ORION-PLUS 12 | 12 ZONE EXPANDABLE TO 16 ZONE CONVENTIONAL FACP / REGULAR BOX |
| ORION-PLUS 16 | 16 ZONE CONVENTIONAL FACP / REGULAR BOX |
| ORION-PLUS 20L | 20 ZONE EXPANDABLE TO 32 FACP / LARGE BOX |
| ORION-PLUS 24L | 24 ZONE EXPANDABLE TO 32 FACP / LARGE BOX |
| ORION-PLUS 28L | 28 ZONE EXPANDABLE TO 32 FACP / LARGE BOX |
| ORION-PLUS 32L | 32 ZONE CONVENTIONAL FACP / LARGE BOX |
| GFE-EXP-MOD | GFE-EXP-MOD: 4 ZONE ORION-PLUS EXPANSION MODULE |

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