ORION-PLUS

Expandable Conventional Fire Detection Panel

The ORION-PLUS conventional control panel range offers a creatively designed and visually pleasing solution for larger projects demanding simplicity of operation. Versions available range from 8 to 16 zones panels and two styles of repeater. Total number of zones is easily expandable at any moment using 4 zone modules.

The **outstanding programmable features** included in this panel range contradict the facilities commonly available in this type of panel. A graphical LCD is provided with clear messaging for different type of events. Multilanguage is supported. Panel's can be interfaced to BMS systems including GFE's ODYSSEY software.

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: RS232, RS485, Fiber Optics, GSM/GPRS and TCP/IP communication interface allowing connection of up to 4 remote repeater panels, extinguishing interface modules and multiplexed zonal output relays; giving one of the most highly advanced levels of system integration and compatibility existing on the market at this level.

ORION-PLUS

Key Features

▶ 8 Zone expandable control panels with a maximum of 16 zones.

▶ 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

▶ Delay timer programmable on/off per Zone

▶ Coincidence programmable 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, Fiber Optics, and TCP/IP

TECHNICAL SPECIFICATIONS

SUPPLY SPECIFICATION	
PRIMARY SUPPLY VOLTAGE- IN	230 +10% -15% 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 @ 20^0C
INTERNAL BATTERY CAPACITY - MAXIMUM	2 x 12V x 7Ah 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 - 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	2 - 500mA 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.	
MAX. HUMIDITY	95% RH Non-Condensing
OPERATING TEMPERATURE	-10ºC to 50ºC
WEIGHT	2 Kg without batteries, 7 Kg with batteries (2 x 12 V 7AH)
DIMENSIONS	272 (W) x 404 (H) x 107 (D) mm
COLOUR	White or Red

ORDER CODE

ORION-PLUS 8	8 ZONES EXPANDABLE CONVENTIONAL FIRE DETECTION CONTROL PANEL
ORION-PLUS 12	12 ZONES EXPANDABLE CONVENTIONAL FIRE DETECTION CONTROL PANEL
ORION-PLUS 16	16 ZONES EXPANDABLE CONVENTIONAL FIRE DETECTION CONTROL PANEL
GFE-EXP-MOD	4 ZONE EXPANSION MODULE
GFE-EXT-MOD	EXTINGUISHING MODULE