PRODUCTS CATALOGUE

MANUFACTURERS OF FIRE DETECTION EQUIPMENT

GLOBAL
FIRE EQUIPMENT

PANELS

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.

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

TECHNICAL SPECIFICATIONS	
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
INTERNAL 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	-10ºC to 50ºC
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

EN54-2 and EN54-4
CERTIFIED
1328-CPR-0224

ORION

Conventional Fire Detection Panel

The ORION conventional control panel range offers a creatively designed and visually pleasing solution for smaller cost-conscious projects demanding simplicity of operation. Versions available include 2, 4 and 8 zone panels and two styles of repeater.

The **outstanding programmable features** included in this panel range contradict the facilities commonly available in this type of panel and include: programmable time delay by zone, Day/Night mode, selectable non-latching zones and coincidence detection.

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: a dedicated RS232 communication interface allowing connection of up to 4 remote repeater panels, addressable loop 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

Key Features

- 2, 4 and 8 Zone non-expandable control panels
- Up to 32 conventional smoke and/or heat detectors per Zone
- Active 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 Remote inputs used for activation of Class Change, Day/Night mode, and Reset
- 2 Relay outputs fire and fault
- Fully EN54 part 2 and 4 compliant
- Repeater output
- Multiplexed output for LEDs and additional relay outputs per zone (GFE-MPX-REL)
- Multiplexed output for sounders per zone (GFE-MPX-SNDR)
- Addressable Loop Interface card (GFE-ADLI)

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°C
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	2,4 or 8
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/ 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	
EVACUATION (CC) - DAY/ NIGHT MODE	Non-Latching - Voltage free contact
RESET	Non-Latching - Voltage free contact
MECHANICAL & OPERATING SPEC.	
HUMIDITY	Max 95% RH Non-Condensing
PROTECTION	IP30
OPERATING TEMPERATURE	-10ºC to 50ºC
WEIGHT	1.7 Kg - 7 Kg (inc. 2 x 7 AH 12 V bat.)
DIMENSIONS	273 (L) x 107 (W) x 404 (H) mm
COLOUR	White or Red
ORDER CODE	
ORION 2 1328-CPR-0224	2 ZONES CONVENTIONAL FIRE DETECTION CONTROL PANEL
ORION 4 1328-CPR-0224	4 ZONES CONVENTIONAL FIRE DETECTION CONTROL PANEL
ORION 8 1328-CPR-0224	8 ZONES CONVENTIONAL FIRE DETECTION CONTROL PANEL

ORION MINI

1 & 2 Zone Conventional Fire Detection Panel - Low Profile

The ORION MINI 1 & 2 zones conventional control panel, offers a creatively designed and aesthetically pleasing solution for smaller cost-conscious projects demanding simplicity of operation. The programmable features included in this panel are: programmable time delay and Day/Night mode.

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.

Key Features

- Up to 32 conventional smoke and/or heat detectors per Zone
- Active End of Line monitoring
- Delay timer programmable ON/OFF and Day/Night mode
- One man test
- 1 Supervised/ monitored sounder circuit
- Fully EN54 -2 and EN54-4 compliant
- Addressable Loop Interface card-GFE-ADLI (optional)

TECHNICAL SPECIFICATIONS	
PRIMARY SUPPLY VOLTAGE- IN	230 +10% -15% V AC
PRIMARY SUPPLY VOLTAGE/ CURRENT- OUT	0.5 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
INTERNAL BATTERY CAPACITY - MAXIMUM	2 x 12 V x 1.2 Ah Sealed VRLA Lead Acid Batteries
MAINS FUSE/ BATTERY FUSE	1 A -250 V Slow Blow - 20 mm/ 1.0 Amp - Resettable
ZONE CURRENT - QUIESCENT/ ALARM	4 mA / 65 mA
MAX. CABLE RESISTANCE/ CAPACITANCE	40 Ohms / 0.470 uF
END OF LINE MONITORING	Active EOL - 10uF/50V Bipolar Electrolytic Aluminium Capacitor
BS5839 DETECTOR REMOVAL COMPLIANT	YES provided diodes are fitted to detector base
DEVICES PER ZONE	32 Maximum - EN 54-2
ALARM RESISTANCE VALUE	270 - 1000 Ohms
SOUNDER CIRCUIT SPECIFICATION	1 output w/ 300 mA max. current drive - fully monitored
ALARM VOLTAGE/ END OF LINE RESISTOR	27.5 V DC Nominal / 10 K Ohms - 1/4 Watt E.O.L.
OPERATING TEMPERATURE / MAX. HUMIDITY	-10ºC to 50ºC / 95% RH Non-Condensing
WEIGHT	1.1 Kg - 2.3 Kg (inc. 2 x 1.2 AH 12 V bat.)
DIMENSIONS	194 (L) x 256 (W) x 86 (H) mm
COLOUR	White or Red
ORDER CODE	
ORION MINI 1	ONE ZONE CONVENTIONAL FIRE DETECTION CONTROL PANEL - LOW PROFILE
ORION MINI 2	TWO ZONE CONVENTIONAL FIRE DETECTION CONTROL PANEL - LOW PROFILE

ORION MINI-REP

Orion Mini-Repeater Panel

The ORION MINI-REP will provide remote control, system status display and monitoring functions. All Fire, Fault, Test and Disabled conditions are displayed. User is able to control all functions at access Level's 1 and 2.

Compliant with EN54-2. Display and Control Functions are replicated and shown in the same manner as on the ORION Fire Detection Panel. Access to Level 2 is via a four digit code (same code as used on the ORION Conventional Panel).

It includes as standard an **RS232 interface**. This unit is also compatible with all of GFE's standard data loop interfaces, allowing the ORION MINI-REP panel to be interfaced to an ORION Conventional Panel using 4 different interfacing technologies:

- RS232
- RS485
- Fibre Optics
- TCP/IP (specific for ORION Conventional Systems)

A maximum of **4 ORION MINI-REP** panels can be connected to a single ORION Conventional Fire Detection Panel. When using data loop interfaces, only one repeater panel will offer both control and display of the system. The remainder of the repeater panels will only offer system status display. This unit is available in both white and red colours.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	28 V DC nominal derived from Orion Aux. Supply O/P
SUPPLY CURRENT	40 mA
CONNECTIONS	+Supply, -Supply, TX and RX
REPEATER NETWORK	RS232, RS485, FO or TCP/IP - 1 Display & Control 3 Display Only
MAX. HUMIDITY	95% RH Non-Condensing
OPERATING TEMPERATURE	-10°C to 50°C
WEIGHT	1.4 Kg
DIMENSIONS	194 (L) x 256 (W) x 75 (H) mm
COLOUR	White or Red
ORDER CODE	
ORION MINI-REP	CONVENTIONAL MINI-REPEATER PANEL - INCLUDES 1 X RS232 INTERFACE

ORION EX

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 world demand for dependable Fire Suppression Systems.

The ORION EX is designed and manufactured to comply with **EN54-2, EN54-4 and EN12094-1**. 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 extinguishing times, electrovalve and flow switch status indications, manual and abort remote activation. There are 3 normal fire detection zones. All inputs are fully monitored for both Fire, Activation and Fault Conditions.

Plans are under way to further complement this new range of extinguishing devices. Devices such as repeater panels, addressable system interfaces, I/O expansion boards as well as manual/abort call buttons for remote connection are just some of the additions to this range.

ORION EX

Key Features

- 3 Fire Detection Zones, with Zones 1 and 2 linked with extinguishing cycle
- Up to 32 conventional smoke and/or heat detectors per Zone
- Active End of Line monitoring (10uF/50V bipolar capacitor) for Zones
- Programmable Pre-Release and Extinguishing times
- Remote Manual Activation and Remote Abort Input
- Electro valve and Pressure Switch Status Indication
- One man test
- Supervised auxiliary 24 volt supply output
- 2 Supervised/monitored output circuits
- 2 Remote inputs used for activation of Evacuation and Reset
- 2 Relay outputs fire and fault with status indication
- Fully EN54-2, EN54-4 and EN12094-1 compliant

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	1.85 Amp Maximum @ 20°C
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	1.85 Amp - Resettable
DETECTION CIRCUIT SPECIFICATION	
NUMBER OF DETECTION ZONES	3
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
BS5839 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/OUTPUT CIRCUIT SPECIFICATION	
CURRENT OUTPUT	1000 mA combined maximum current drive for both circuits
VOLTAGE OUTPUT	27.5 V DC Nominal
END OF LINE RESISTOR	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	30 V DC - 2 Amp resistive loads
REMOTE INPUT SPECIFICATION	
FULLY MONITORED INPUTS	Remote Activation, Remote Abort, Electrovalve Status, Flow/Pressure Switch Status
EVACUATION AND RESET	Non-Latching - Voltage free contact
MECHANICAL & OPERATING SPEC.	
MAX. HUMIDITY	95% RH Non-Condensing
PROTECTION	IP30
OPERATING TEMPERATURE	-10ºC to 50ºC
WEIGHT	1.7 Kg - 7 Kg (inc. 2 x 7 AH 12 V bat.)
DIMENSIONS	273 (L) x 107 (W) x 404 (H) mm
COLOUR	White or Red
ORDER CODE	
ORION EX	CONVENTIONAL FIRE DETECTION & EXTINGUISHING PANEL

ORION EX MINI-REP

Orion Mini-Repeater Panel

The ORION EX MINI-REP will provide remote control, system status display and monitoring functions for the ORION EX Extinguishing Panel. All Fire, Fault, Test and Disabled conditions are displayed. User is able to control all functions at access Level's 1 and 2. Compliant with EN54-2. Display and Control Functions are replicated and shown in the same manner as on the ORION EX Fire Detection and Extinguishing Panel. Access to Level 2 is via a four digit code (same code as used on the ORION EX Panel).

It includes as standard an **RS232 interface.** This unit is also compatible with all of GFE's standard data loop interfaces, allowing the ORION MINI-REP panel to be interfaced to an ORION EX Panel using 4 different interfacing technologies:

- RS232
- RS485
- Fibre Optics
- TCP/IP (specific for ORION EX systems)

A maximum of 4 **ORION EX MINI-REP** panels can be connected to a single ORION EX Panel. When using data loop interfaces, only one repeater panel will offer both control and display of the system. The remainder of the repeater panels will only offer system status display. This unit is available in both white and red colours.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	28 V DC nominal derived from Orion Aux. Supply O/P
SUPPLY CURRENT	40 mA
CONNECTIONS	+Supply, -Supply, TX and RX
REPEATER NETWORK	RS232, RS485, FO or TCP/IP - 1 Display & Control 3 Display Only
HUMIDITY	Max 95% RH Non-Condensing
OPERATING TEMPERATURE	-10°C to 50°C
WEIGHT	1.4 Kg
DIMENSIONS	194 (L) x 256 (W) x 75 (H) mm
COLOUR	White or Red
ORDER CODE	
ORION EX MINI-REP	CONVENTIONAL MINI-REPEATER PANEL FOR ORION EX - INCLUDES 1 X RS232 INTERFACE

DETECTORS

ZEOS-C

Fire Alarm Detectors

The ZEOS-C series of Fire Alarm Detectors has been designed to be exclusively compatible with the Global Fire Equipment range of conventional detection zones available in the following equipment:

- Conventional Panels: ORION, ORION MINI, ORION EX and ORION-PLUS
- Addressable Zone Monitoring Units: QUAD-ZMU and ZMU.

Certified to EN54-5 and EN54-7 the ZEOS-C series detectors are available in heat, smoke and combined smoke/heat detector versions.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	10-30 V DC
CURRENT - QUIESCENT	Heat: 7 uA / Smoke: 33 uA / Smoke & Heat: 35 uA
CURRENT - DEVICE IN ALARM	24 mA - Alarm LEDs
SENSITIVITY	According to EN54-5 or/and EN54-7
CABLE SIZE	0.5-2.5 mm²
RESET/START-UP TIMES	20 seconds max.
COLOUR / CASE MATERIAL	White / ABS
MAX. HUMIDITY	95% RH Non-Condensing
NORMAL / TRANSIENT OPER. TEMPERATURE	0ºC to 50ºC / -10ºC to 85ºC
DIMENSIONS	100 mm (D) x 50 mm (H)
WEIGHT	144 g inc. base
COMPATIBILITY	ORION, ORION MINI, ORION EX, ORION-PLUS, QUAD ZMU and ZMU

ORDER CODE		
ZEOS-C	1328-CPR-0705	PHOTOELECTRIC SMOKE DETECTOR
ZEOS-C-H	1328-CPR-0706	RATE OF RISE/FIXED TEMP HEAT DETECTOR
ZEOS-C-SH	1328-CPR-0704	MULTISENSOR SMOKE & HEAT DETECTOR

ZEOS BASE

Standard Detector Base

ZEOS-BASE design and materials guarantees a proper electrical contact with detector head which is key to ensure a stable system. Mounting Zeos Base to uneven ceilings has been made easier because of narrow contact points.

Deep Detector Base

This mounting option enables external wiring conduits in locations like car parking's, warehouses, etc.

TECHNICAL SPECIFICATIONS	
DIMENSIONS	Standard: 100 (D) x 10 (H) mm / Deep: 100 (D) x 30 (H) mm
COLOUR / CASE MATERIAL	White / ABS
ORDER CODE	
ZEOS-BASE	STANDARD DETECTOR BASE
ZEOS-DEEP-BASE	DEEP DETECTOR BASE

GFE-BASE

ZEOS detector base w/ buzzer or relay

Accommodated inside our deep base, **GFE-BASE-BUZ** has a built-in piezo buzzer and it's an option for local alarm signalling in places like offices, hotel rooms and class rooms at a lower cost than a VULCAN 2 base sounder. **GFE-BASE-REL** has a relay which is a very practical solution for ventilation damper activation together with our detector housing.

Both options are loop powered making them a viable and low cost solution for localized audible notification and external activation.

TECHNICAL SPECIFICATIONS	
SUPPLY	Loop powered
CURRENT	21 mA
RELAY RATING	30 V DC/ 2A
BUZZER OUTPUT	75 dB
DIMENSIONS	100 (D) x 30 (H) mm
COLOUR / CASE MATERIAL	White / ABS
ORDER CODE	
GFE-BASE-BUZ	ZEOS DETECTOR BASE W/ BUZZER
GFE-BASE-REL	ZEOS DETECTOR BASE W/ RELAY

GFE-REM-IND-C

Conventional Flashing Remote Indicator

This remote indicator can be used with any fire alarm detector, be it of the conventional types, to indicate remotely the activation of the relevant detection device.

Its main characteristics are the high visibility due to the flashing of 2 high efficiency LEDs and the wide operating voltage range (3.3 V to 10 V DC) with a maximum 7 mA current consumption. The connections of this device are non-polarised.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	3.3 V to 10 V DC
SUPPLY CURRENT	7 mA max.
MAX. CABLE SIZE	2.5 mm²
MAX. HUMIDITY	95% RH Non-Condensing
OPERATING TEMPERATURE	-10ºC to 50ºC
DIMENSIONS	86 (L) x 86 (W) x 25 (H) mm
WEIGHT	50.1 g = module 4,8 g + box 45,3 g
ORDER CODE	
GFE-REM-IND-C	CONVENTIONAL FLASHING REMOTE INDICATOR

UG-4

Duct Smoke Sampling System

UG-4 duct housing is a simple and effective solution to monitor smoke presence in ventilation ducts or other HVAC conducts.

Based in Venturi effect, air sampling it's naturally aspirated because of aerodynamic shape of sampling tube. The venturi tube conducts the air from the duct to the detector housing, which is fitted to the outside of the duct, where a smoke detector detects potential fire particles in the air.

UG-4 should be installed according to air flow direction in the duct but it can be installed on any side of the duct.

We recommend that the UG-4 is mounted at an equal distance from heating, cooling or humidity devices. A distance of 3 times the duct diameter should be left before a damper, filter or change of the duct direction and 5 times the diameter after these devices to assure the presence of laminar flow.

For detailed information about installation, download manual available in our website.

TECHNICAL SPECIFICATIONS	
MATERIAL	ABS / Aluminum
WEIGHT: HOUSING	708 g
WEIGHT: VENTURI PIPE	0.6 m - 377 g / 1,5 m - 950 g / 2,8 m - 1760 g
DIMENSIONS: HOUSING	180 (W) x 235 (H) x 183 (D) mm
DIMENSIONS: VENTURI PIPE	23 (W) x 35 (D) mm
ORDER CODE	
DUCT HOUSING	DUCT SMOKE SAMPLING SYSTEM
VR-0.6M	VENTURI PIPE 0.6 METER FOR UG-4
VR-1.5M	VENTURI PIPE 1.5 METER FOR UG-4
VR-2.8M	VENTURI PIPE 2.8 METER FOR UG-4

FIRE BEAM

Reflective Optical Beam Smoke Detector

FIRE BEAM is the optimal solution to protect large areas with ceiling height greater than 4 meters. A motorized beam head will self-align itself to the centre of the reflector when commissioning and will automatically keep alignment when building movement occurs which will prevent unwanted false alarms. Additionally, the ground level controller facilitates any change or adjustment. Its low current consumption enables seamless integration with addressable systems via an Input or ZMU modules. Another relevant feature is related with its environmental protection that makes FIRE BEAM a suitable solution for harsh industrial applications, in situations where condensation may occur, filters with special coating widens the scope of usage.

Key Features

- Dual LEDs for 360º visibility
- Low power
- IP65 environmental protection
- Ground level commissioning
- Multi language interface
- Motorized beam head
- 1500 m² maximum coverage

TECHNICAL SPECIFICATIONS	
ELECTRICAL	
SUPPLY VOLTAGE	10.2 to 40V DC
SUPPLY CURRENT	3 mA (quiescent; alarm; fault)
STATUS INDICATORS	
NORMAL	Green LED's Flashing / Controller Message
FAULT	Yellow LED's Flashing / Change over relay (2A@30VDC)/ Controller Message
ALARM	Red LED's Flashing / Change over relay (2A@30VDC)/ Controller Message
ENVIRONMENTAL	
TEMPERATURE	-10°C to +55°C
HUMIDITY	10 to 95% RH Non-condensing
IP RATING	IP65 when suitably mounted and terminated
MECHANICAL	
BEAM HEAD	180 (H) x 155 (W) x 137 (D) mm / Weight 1.1 Kg
CONTROLLER	185 (H) x 120 (W) x 62 (D) mm / Weight 0.55 Kg
40KIT80 MID-RANGE REFLECTOR	293 (H) x 293 (W) x 5 (D) mm / Weight 0.8 Kg
80KIT100 LONG RANGE REFLECTOR	394 (H) x 394 (W) x 5 (D) mm / Weight 1.8 Kg
ADAPTER	270 (H) x 250 (W) x 5 (D) mm / Weight 0.6 Kg (mounts the Beam Head onto unistrut)
ORDER CODE	
FIRE BEAM	BASIC FIRE BEAM INCL. CONTROLLER + 1 REFLECTOR COVERS DISTANCE OF 5-40 METERS
40KIT80	MID RANGE EXTENSION KIT 40-80 M
80KIT100	LONG RANGE EXTENSION KIT 80-100 M
ADAPTER	HEAD INTERFACE ADAPTER TO MOUNT TO UNISTRUT
ANTI-FOG FIRE BEAM	ANTI FOG FIRE BEAM
40KIT80-AF	ANTI FOG MID RANGE EXTENSION KIT 40-80 M
80KIT100-AF	ANTI FOG LONG RANGE EXTENSION KIT 80-100 M
WINDOW-AF	ANTI FOG WINDOW
REF-AF	SINGLE ANTI FOG REFLECTOR
FOGKIT	ANTI FOG WINDOW FOR HEAD AND SINGLE ANTI FOG REFLECTOR

MANUAL CALL POINTS

GFE-MCPE-C

Conventional Manual Call Point

The GFE-MCPE-C is a Conventional Manual Call Point, designed and manufactured to comply with EN54-11, compatible with all GFE Conventional Control panels. A bi-colour LED flashes Green when the unit is connected to a control panel and is illuminated Red when in Alarm.

The unit is supplied complete with a **hinged flap** which protects the trigger element from accidental activation and reduces malicious activations as **two actions** are required in order to activate the device. This unit can be both surface and flush mounted and it can be easily reset using the supplied key after activation.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	20-30 V DC
CURRENT - QUIESCENT	200 uA
CURRENT - DEVICE IN ALARM	50 mA @ 24 V DC - Alarm Resistance 470 Ohms Max.
CABLE SIZE	0.5-2.5 mm²
COLOUR / CASE MATERIAL	Red / ABS & Clear/ PC - Flame Retardant 94 V0
PROTECTION	IP24D
OPER. TEMPERATURE	-10ºC to 55ºC
MAX. HUMIDITY	95% RH Non-Condensing
DIMENSIONS	92.6 (W) x 92.6 (H) x 60.1 (D) mm
WEIGHT	152 g

ORDER CODE		
GFE-MCPE-C	1328-CPR-0377	CONVENTIONAL MANUAL CALL POINT
GFE-MCPE-C-*BLUE*	1328-CPR-0377	BLUE CONVENTIONAL MANUAL CALL POINT
GFE-MCPE-C-*GREEN*	1328-CPR-0377	GREEN CONVENTIONAL MANUAL CALL POINT
GFE-MCPE-C-*YELLOW*	1328-CPR-0377	YELLOW CONVENTIONAL MANUAL CALL POINT
GFE-MCPE-C-*WHITE*	1328-CPR-0377	WHITE CONVENTIONAL MANUAL CALL POINT

GFE-MCPE-C-IP67

Conventional Manual Call Point Outdoor Use-IP67

The GFE-MCPE-C-IP67 is a Conventional Manual Call Point, designed and manufactured to comply with EN54-11, compatible with all GFE Conventional Control panels specially recommended for outdoor use.

The unit is supplied complete with a hinged flap which protects the trigger element from accidental activation and reduces malicious activations as 2 actions are required in order to activate the device.

A bi-colour LED flashes Green when the unit is connected to a control panel and is illuminated Red when in Alarm.

The GFE-MCPE-C-IP67 has been designed to deal with today's difficult and harsh environments. It is a unique fire alarm manual call point that mimics the feel of breaking glass whilst offering the user the benefits and safety advantages of a glass-free resettable operating element. Once activated a warning flag drops in to view easily identifying the call point that has been operated. A key can then reset the unit.

The GFE-MCPE-C-IP67 provides an ideal solution for most conventional fire alarm systems. Ideal for all outside applications such as oil rigs, ships, factories as well as wash down areas that are sensitive to broken glass.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	20-30 V DC
CURRENT - QUIESCENT	200 uA
CURRENT - DEVICE IN ALARM	50 mA - Alarm LED illuminated
MAX. CABLE SIZE	0.5-2.5 mm²
COLOUR / CASE MATERIAL	Red / ABS & Clear - Polycarbonate - Flame Retardant 94 V0
PROTECTION	IP67
OPER. TEMPERATURE / MAX. HUMIDITY	-10°C to 50°C / 95% RH Non-Condensing
DIMENSIONS	111.9 (H) x 111.9 (W) x 81.3 (D) mm
ORDER CODE	
GFE-MCPE-C-IP67 1328-CPR-0373	IP67 RATED CONVENTIONAL CALL POINT

SOUNDERS & BEACONS

EN54-3 Type A
CERTIFIED
1328-CPR-0287

VALKYRIE CS

Conventional Wall Mount Sounder/ Beacon

The VALKYRIE CS is a wall mounted Conventional Sounder/ Beacon with low power consumption. Four different tones are available and selected using DIL switches 1 and 2.

Both continuous and pulsing outputs are provided via separate negative supply connections allowing for the presence of differentiated evacuation and alert sounds.

TECHNICAL SPECIFICATIONS		
SUPPLY VOLTAGE		20 V to 30 V DC
CURRENT - SOUNDER/ BEACON ACTIVE		10 mA - 280 mW @ 28 V DC
MAXIMUM SOUNDER OUTPUT		97 dB (@ 1 meter - 30 V DC)
MAX. CABLE SIZE		2.5 mm²
OPERATING TEMPERATURE		-10ºC to 55ºC
MAX. HUMIDITY		95% RH Non-Condensing
COLOUR / CASE MATERIAL		Red or White / ABS and PC
PROTECTION CATEGORY		IP21C - Type A - Indoor use
DIMENSIONS		110 (D) x 85 (H) mm inc. base
WEIGHT		254 g - inc. mounting base
ORDER CODE		
VALKYRIE CS	1328-CPR-0287	CONVENTIONAL WALL SOUNDER
VALKYRIE CSB	1328-CPR-0287	CONVENTIONAL WALL SOUNDER/ BEACON

EN54-3 Type B
CERTIFIED
1328-CPR-0300

VALKYRIE CS IP65

Conventional Wall Mount Sounder/ Beacon Outdoor Use-IP65

The VALKYRIE CS IP65 is a wall mounted Conventional Sounder/ Beacon with low power consumption. It is specifically designed to be used outdoors. Four different tones are available and selected using DIL switches 1 and 2.

Both continuous and pulsing outputs are provided via separate negative supply connections allowing for the presence of differentiated evacuation and alert sounds.

TECHNICAL SPECIFICATIONS		
SUPPLY VOLTAGE		20 V to 30 V DC
CURRENT - SOUNDER/ BEACON ACTIVE		10 mA - 280 mW @ 28 V DC
MAXIMUM SOUNDER OUTPUT		97 dB (@ 1 meter - 30 V DC)
MAX. CABLE SIZE		2.5 mm²
OPERATING TEMPERATURE		-20°C to 70°C
MAX. HUMIDITY		95% RH Non-Condensing
COLOUR / CASE MATERIAL		Red / ABS and PC
PROTECTION CATEGORY		IP65 - Type B - Outdoor use
DIMENSIONS		112 (D) x 110 (H) mm inc. base
WEIGHT		315 g / 350 g - including packaging
ORDER CODE		
VALKYRIE CS IP65	1328-CPR-0300	CONVENTIONAL WALL SOUNDER - IP65 RATED
VALKYRIE CSB IP65	1328-CPR-0300	CONVENTIONAL WALL SOUNDER/ BEACON - IP65 RATED

VALKYRIE VOX C

Conventional Voice Sounder

The VALKYRIE VOX C is a wall mounted Conventional Voice Sounder which is available in either Red or White housings. The VALKYRIE VOX C voice sounder is based on our successful Horn type sounder and sounder/ beacon.

The VALKYRIE VOX C, can broadcast up to 2 differentiated pre-loaded messages: Fire and Alert. The desired messages can be downloaded from our own proprietary recording PC application, via a standard USB interface.

Key Features

- Multi-Message
- Multi-Language
- 106 dB maximum sounder output at 1 m
- Messages easily programmed via USB interface using dedicated software
- Synchronization for fast activation
- Compatible with most conventional fire panels

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	20 V to 30 V DC
LOOP CURRENT - SOUNDER ACTIVE	28 mA (Average) - 65 mA (Peak) @ 24 V DC
SOUNDER OUTPUT @ 1 METER	Tone 103 dBA - Voice Message 106 dBA
MAX. CABLE SIZE	2.5 mm²
COLOUR / CASE MATERIAL	Red or White / ABS and PC
OPERATING TEMPERATURE	-10ºC to 55ºC
MAX. HUMIDITY	95% RH Non-Condensing
PROTECTION	IP21C - Type A - Indoor use
DIMENSIONS	110 (D) x 83.6 (H) mm
WEIGHT	265 g / 315 g - inc. packaging
ORDER CODE	
VALKYRIE VOX C	CONVENTIONAL VOICE SOUNDER
VALKYRIE VOX CB	CONVENTIONAL VOICE SOUNDER WITH BEACON

VALKYRIE VOX C IP65

Conventional Voice Sounder/ Beacon Outdoor Use-IP65

The VALKYRIE VOX C IP65 is a wall mounted Conventional Voice Sounder which is available in Red housings. It is specifically designed to be used outdoors.

The VALKYRIE VOX C IP65, can broadcast up to 2 differentiated pre-loaded messages: Fire and Alert. The desired messages can be downloaded from our own proprietary recording PC application, via a standard USB interface.

Key Features

- Multi-Message
- Multi-Language
- 106 dB maximum sounder output at 1 m
- Messages easily programmed via USB interface using dedicated software
- Synchronization for fast activation
- Compatible with most conventional fire panels

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	20 V to 30 V DC
LOOP CURRENT - SOUNDER ACTIVE	28 mA (Average) - 65 mA (Peak) @ 24 V DC
SOUNDER OUTPUT @ 1 METER	Tone 103 dBA - Voice Message 106 dBA
MAX. CABLE SIZE	2.5 mm²
COLOUR / CASE MATERIAL	Red / ABS and PC
OPERATING TEMPERATURE / MAX. HUMIDITY	-10°C to 50°C / 95% RH Non-Condensing
PROTECTION	IP65 - Type B - Outdoor use
DIMENSIONS	110 (D) x 83.6 (H) mm
WEIGHT	323 g / 390 g - inc. packaging
ORDER CODE	
VALKYRIE VOX CS IP65	CONVENTIONAL VOICE SOUNDER IP65 RATED
VALKYRIE VOX CSB IP65	CONVENTIONAL VOICE SOUNDER WITH BEACON IP65 RATED

VALKYRIE CB

Conventional Beacon

The VALKYRIE CB is a Conventional Beacon produced using the latest high intensity LED technology and use extremely low levels of current consumption providing a highly visible flash. It can be supplied in either white or red colour.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	Loop: 20 V to 30 V DC
LOOP CURRENT - QUIESCENT	0.5 mA
LOOP CURRENT - ALARM BEACON	3 mA Max.
MAX. CABLE SIZE	2.5 mm²
OPERATING TEMPERATURE	-10ºC to 55ºC
MAX. HUMIDITY	95% RH Non-Condensing
COLOUR / CASE MATERIAL	Red or White / ABS
PROTECTION	IP44
DIMENSIONS	110 (D) x 49.5 (H) mm
WEIGHT	150 g - inc. beacon / 180 g - inc. packaging
ORDER CODE	
VALKYRIE CB	CONVENTIONAL BEACON

VALKYRIE CB IP65

Conventional Wall Mounted Beacon Outdoor Use-IP65

The VALKYRIE CB IP65 is a Wall Mounted Conventinal Beacon produced using the latest high intensity LED technology and use extremely low levels of current consumption providing a highly visible flash. It is specifically designed to be used outdoors.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	20 V to 30 V DC
CURRENT - QUIESCENT	0.5 mA
CURRENT - ALARM BEACON	3 mA Max.
MAX. CABLE SIZE	2.5 mm²
OPERATING TEMPERATURE	-25ºC to 70ºC
MAX. HUMIDITY	95% RH Non-Condensing
COLOUR / CASE MATERIAL	Red / ABS
PROTECTION	IP65 - Type B - Outdoor use
DIMENSIONS	112 (D) x 82 (H) mm
WEIGHT	205 g inc. sounder base / 240 g - inc. packaging
ORDER CODE	
VALKYRIE CB IP65	CONVENTIONAL WALL MOUNTED BEACON - IP65 RATED

EN54-3 Type A
CERTIFIED
1328-CPR-0289

VULCAN 2 C

Conventional Sounder/ Beacon

The VULCAN 2 C is a low consumption sounder designed to be used as an unobtrusive low profile sounder or as a base sounder to be installed in conjunction with a conventional detector. This leads to reduced installation costs and improves the aesthetics of the fire alarm system.

Four different tones are available and selected by jumpers. The Sound level can be adjusted if required, using the potentiometer.

The complete range is composed of 3 varieties in both base and wall mounted versions: Beacon, Sounder and combined Sounder/ Beacon.

TECHNICAL SPECIFICATIONS		
SUPPLY VOLTAGE		20 V to 30 V DC
LOOP CURRENT - BEACON		Beacon 2.5 mA
MAXIMUM SOUNDER OUTPUT		96 dB (@ 1 meter - 30 V DC)
MAX. CABLE SIZE		2.5 mm²
OPERATING TEMPERATURE		-10ºC to 55ºC
MAX. HUMIDITY		95% RH Non-Condensing
COLOUR / CASE MATERIAL		White or Red / ABS - Transparent PC
DIMENSIONS		100 (D) x 50 (H) mm
WEIGHT		144 g inc. base
ORDER CODE		
VULCAN 2 CS	1328-CPR-0289	CONVENTIONAL BASE SOUNDER
VULCAN 2 CSB	1328-CPR-0289	CONVENTIONAL BASE SOUNDER WITH BEACON
VULCAN 2 CB		CONVENTIONAL BEACON
VULCAN 2 L		OPAQUE LID FOR VULCAN 2
VULCAN 2 LT		TRANSPARENT LID VULCAN 2

VULCAN 2 VOX C

Conventional Voice Sounder

The VULCAN 2 VOX C is a wall mounted Conventional Voice Sounder which is available in either White or Red housings.

The VULCAN 2 VOX C, can broadcast up to 2 differentiated pre-loaded messages: Fire and Alert. The desired messages can be downloaded from our own proprietary recording PC application, via a standard USB interface.

Key Features

- Multi-Message. Follows Panel's Sounder Programming
- Multi-Language
- 92 dBA maximum output
- Messages easily programmed via USB interface using dedicated software
- Synchronization for fast activation
- Compatible with most conventional panels

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	20 V to 30 VDC
SUPPLY CURRENT - SOUNDER ACTIVE	28 mA (Average) - 65 mA (Peak) @ 24 VDC
SOUND OUTPUT @ 1 METER	Tone 88 dBA / Voice message 92 dBA
TOTAL AUDIO MEMORY SIZE	4 minutes (decoded audio) up to 16 min (encoded audio)
MAX. CABLE SIZE	2.5 mm²
OPERATING TEMPERATURE / MAX. HUMIDITY	-10ºC to 50ºC / 95% RH Non-Condensing
COLOUR / CASE MATERIAL	White or Red / ABS - Transparent PC
PROTECTION	IP21C - Type A - Indoor use
DIMENSIONS	100 (D) x 29 (H) mm - with Lid 37.5 (H) mm
WEIGHT	127 g - 149 g with Lid
ORDER CODE	
VULCAN 2 VOX CS	CONVENTIONAL VOICE BASE SOUNDER
VULCAN 2 VOX CSB	CONVENTIONAL BASE SOUNDER WITH BEACON

GFE-PA-VOX-C

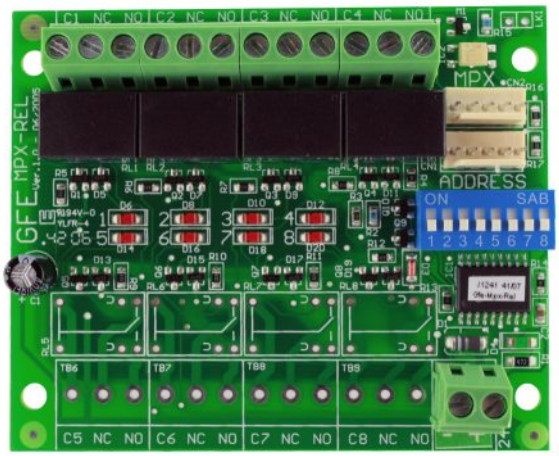
Conventional PA Speaker Amplifier/ Controller

The GFE-PA-VOX-C is a conventional PA Speaker Amplifier/ Controller which is available in either Red or White housings. The GFE-PA-VOX-C is able to provide a maximum of 24 W of sound output to a single PA Speaker.

The GFE-PA-VOX-C, can broadcast pre-loaded messages. The desired message can be downloaded from our own proprietary recording PC application, via a standard USB interface. This product is controlled by a conventional sounder circuit and externally powered.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	Sounder Circuit: 17-30 V DC - External Supply: 20-30 V DC
SOUNDER CIRCUIT - CURRENT	2.0 mA (Sounder Active)
EXTERNAL SUPPLY - CURRENT	5.0 mA (Quiescent) - 1.0 A (Sounder Active)
POWER OUTPUT MAX.	24 Watts rms
MAX. CABLE SIZE	2.5 mm²
OPERATING TEMPERATURE	-10ºC to 50ºC
MAX. HUMIDITY	85% RH Non-Condensing
ENCLOSURE / MATERIAL	White or Red / ABS
PROTECTION CATEGORY	IP44 - Type A - Indoor use
DIMENSIONS	100 (D) x 48 (H) mm
WEIGHT	125 g / 160 g inc. packaging
ORDER CODE	
GFE-PA-VOX-C	CONVENTIONAL PA SPEAKER AMPLIFIER/ CONTROLLER

MODULES



J-NET-MPX-REL

Junior and Juno Net Multiplexed Zone Relay Outputs

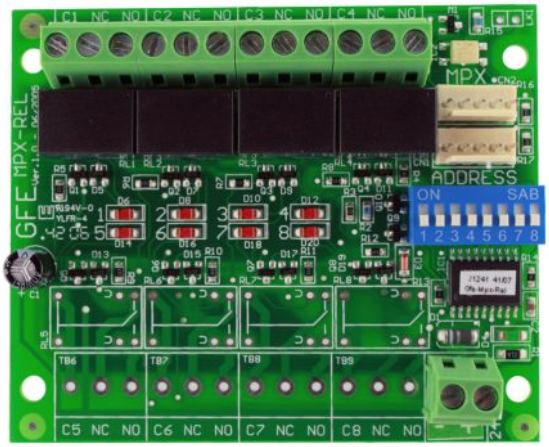
Interface card which provides indication of a zone in Fire/ Fault condition via a voltage free, change-over relay contact for each zone in any of GFE's Analogue Addressable Fire Detection Panels. There is also a LED indication of Fire/ Fault condition for each individual zone. The Red LED indicator will be ON when the relay is active. These relay outputs are not monitored.

This module operates in three different modes:

- **8 Zone Blocks** - Indication of Fire for each zone in the range 1 to 384
- **4 Zone Blocks** - Indication of Fire and Fault for each zone in the range 1 to 256
- **System Status** - Each relay output is assigned to a specific System Status indication:
  Fire, Fault, Pre-Alarm, Test, Disabled, Sounders ON, Auxiliary Outputs and Sounders Disabled

The module requires an external 24 V DC supply and connection to either a JUNO NET or JUNIOR Panel is via a 5 way flat cable fitted with polarised connectors. Two of these connectors are provided to enable connection of more than 1 module.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	28 V DC nominal
CURRENT - QUIESCENT	7 mA - No relays active
CURRENT - ZONES IN ALARM	7 mA + 15 mA per active relay
ZONE SELECTION	DIL Switch
OPERATING TEMPERATURE	-10ºC to 50ºC
MAX. HUMIDITY	95% RH Non-Condensing
DIMENSIONS	88 (L) x 72.5 (W) x 18 (H) mm
WEIGHT	4 zone - 60 g / 8 zone - 95 g
ORDER CODE	
J-NET-MPX-REL	JUNIOR AND JUNO NET MULTIPLEXED 8 ZONE RELAY BOARD



GFE-MPX-REL

Orion Multiplexed Zone Relay Outputs

Interface card which provides an individual zone in alarm indication via a voltage free change-over relay contact for each zone in an ORION conventional panel. There are 2 versions: 4 and 8 zones and they are always used for indication of Alarm/ Fire conditions.

There is also a LED indication of Alarm condition for each individual zone. The Red LED indicator will be ON when the relay is active. These relay outputs are not monitored.

The DIL switch allows one relay output for a particular zone in the range 1 to 8 to be programmed as delayed and this is achieved using the first three switches (1 to 3). The delay time will be provided in the range between 0-10 minutes using the next four positions (4-7) on the DIL switch. The module requires an external 24 V DC supply. Connection to the ORION PCB board is via a 5 way flat cable fitted with Molex type polarised connectors.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	28 V DC nominal
CURRENT - QUIESCENT	7 mA - No relays active
CURRENT - ZONES IN ALARM	7 mA + 15 mA per active relay
TIMER	15 settings from 0 to 10 minutes
OPERATING TEMPERATURE	-10ºC to 50ºC
MAX. HUMIDITY	95% RH Non-Condensing
DIMENSIONS	88 (L) x 72.5 (W) x 18 (H) mm
WEIGHT	4 zone - 60 g / 8 zone - 95 g
ORDER CODE	
GFE-MPX-REL-4	ORION MULTIPLEXED 4 ZONE RELAY BOARD
GFE-MPX-REL-8	ORION MULTIPLEXED 8 ZONE RELAY BOARD

GFE-ADLI-FO

Orion Panel Loop Interface

The interface GFE-ADLI-FO allows GFE's ORION conventional panel to be interfaced to an addressable panel loop through a fibre optic link, reaching longer distances compared to copper wire. It is possible to connect multiple conventional panels in the same fibre optic link to reduce costs.

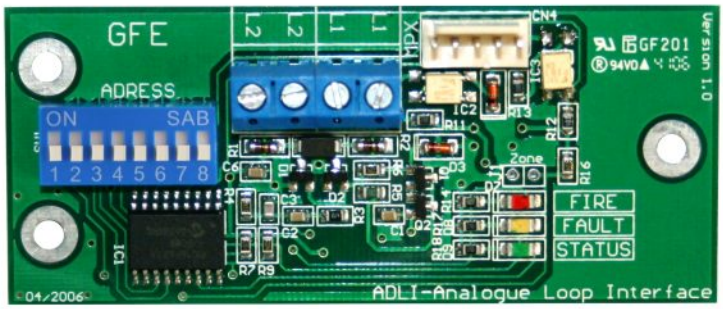
It allows the addressable panel to monitor the status of the conventional unit and also to control it remotely, ie, the addressable panel will be able to Silence/Resound Alarms (EVACUATION) and RESET.

There are 2 distinct assemblies for the GFE-ADLI-FO, the "Addressable Loop Interface" and the "Conventional Panel Interface". Every conventional panel should be equipped with one "Conventional Panel Interface" and every link that connects in the loop should have an "Addressable Loop Interface" in the connection spot.

Key Features

- Fast Activation Response
- Remote Sound/ Silence Alarms
- Remote Reset
- Low Power Consumption

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	28 V DC nominal - 17 to 30 V DC
SUPPLY CURRENT	Loop Interface - 2 mA / loop; 15 mA / ext. Supply Orion Interface - 20 mA
CONNECTOR TYPE (FO)	ST Connectors
FIBRE OPTICS CABLE	Multi-mode 62.5 / 125 um
MAXIMUM HUMIDITY	95% RH Non-Condensing
OPERATING TEMPERATURE	-10°C to 50°C
DIMENSIONS	135 (L) x 35.6 (W) x 20 (H) mm
WEIGHT	32 g
ORDER CODE	
GFE-ADLI-FO-LOOP	FIBRE OPTICS - ADDRESSABLE LOOP INTERFACE
GFE-ADLI-FO-ORION	FIBRE OPTICS - CONVENTIONAL PANEL INTERFACE



GFE-ADLI

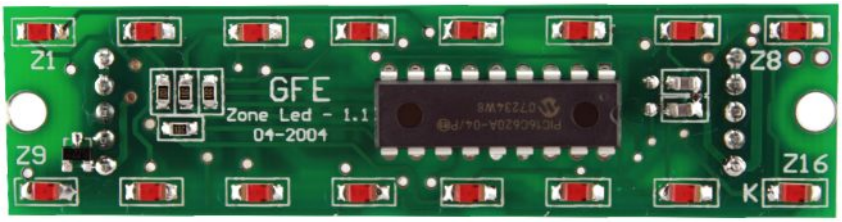
Orion Analogue Loop Interface

The GFE-ADLI is used as an interface between an ORION conventional panel and any of GFE's analogue addressable systems. It allows the addressable panel to monitor and control the status of the conventional unit.

An 8 way DIL switch and a pluggable jumper are provided, which will be used for setting the module's address and the reporting mode. The module will transmit to the analogue addressable panel the status of the ORION Conventional Panel both in terms of Fire and Fault conditions and only one address will be occupied per module. The module is reported by the addressable system as a Zone Monitoring Unit. The unit is also equipped with 3 LEDS that will provide an optical indication of the module's status, namely: Polling Rate (Green), Faults (Yellow) and Fire (Red).

Finally, this unit allows the ORION panel to be controlled remotely from any of GFE's analogue addressable panels allowing the user to Silence/ Resound Alarms (EVACUATION) and RESET when the pluggable jumper is fitted to the 2-way header provided on the module's PCB board. If the same jumper is removed, the remote RESET operation is disabled and although the Addressable panel will be able to activate the SOUNDER circuits on the ORION panel, the SILENCE ALARMS will be disabled remotely and hence only available locally.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	Loop Powered - 17 to 30 V DC
SUPPLY CURRENT	1.2 mA (quiescent) - 3 mA (Alarm or Fault)
SOFTWARE & HARDWARE COMPATIBILITY	ORION Conventional Panel-version 1.5 and above JUNIOR and JUNO NET panels (all versions)
OPERATING TEMPERATURE	-10ºC to 50ºC
MAX. HUMIDITY	95% RH Non-Condensing
DIMENSIONS	100.3 (L) x 35 (W) x 18 (H) mm
WEIGHT	20 g
ORDER CODE	
GFE-ADLI	ORION ANALOGUE LOOP INTERFACE



MPX-LED

MultiplexedZ one LEAD Board

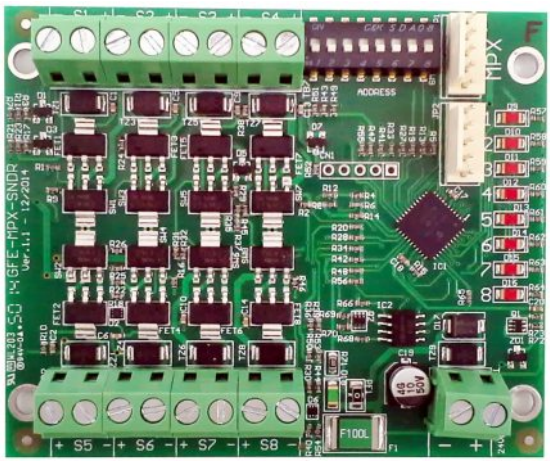
An interface card that provides a LED indication of a Fire/ Fault condition for each individual zone. The Red LED indicator will be ON when the zone is in Fire condition. Can be used with any of GFE's addressable panels.

This module operates in three different modes:

- **16 Zone Blocks** - Indication of Fire for each zone in the range 1 to 384
- **8 Zone Blocks** - Indication of Fire and Fault for each zone in the range 1 to 384
- **System Status** - Each LED output is assigned to a specific System Status indication:
  Fire, Fault, Pre-Alarm, Test, Disabled, Sounders ON, Auxiliary Outputs and Sounders Disabled

The module requires a connection to either JUNO NET or JUNIOR Panels via a 5 way flat cable fitted with polarised connectors. And it should be connected to the MPX output of either panel.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	5 V DC nominal
CURRENT - QUIESCENT	2 mA - No LEDs active
CURRENT - ZONES IN ALARM	60 mA - Max Current during LAMP TEST @ 5 V DC
ZONE SELECTION	Solder Links
OPERATING TEMPERATURE	-10°C to 50°C
MAX. HUMIDITY	95% RH Non-Condensing
DIMENSIONS	78.5 (L) x 20.5 (W) x 16 (H) mm
WEIGHT	10 g
ORDER CODE	
MPX-LED	JUNIOR AND JUNO NET MULTIPLEXED 16 ZONE LED BOARD



GFE-MPX-SNDR

ORION Multiplexed Zone Sounder Circuit Outputs

Interface card that provides an individual zone in alarm indication via a monitored sounder output for each zone in an ORION Conventional Panel. There are 2 versions: 4 and 8 zone and they are always used for indication of ALARM/ FIRE conditions.

There is also a LED indication of ALARM condition for each individual zone. The LED Red indicator will be ON when the sounder circuit is active. These sounder outputs are individually monitored for both open and short circuit.

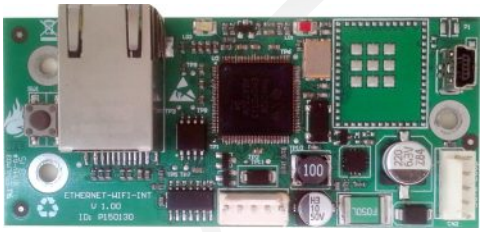
The d.i.l switch allows one sounder output for a particular zone in the range 1 to 8 to be programmed as delayed and this is achieved using the first three switches (1 to 3) and the delay time will be provided in the range between 0-10 minutes using the next four switch positions (4-7) on the d.i.l. Switch.

The module requires an external 24 V DC supply. Connection to the Orion PCB board is via a 5 way flat cable fitted with Molex type polarised connectors.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	28 V DC nominal
CURRENT - QUIESCENT	7 mA - No Sounder Circuit active
CURRENT - ZONES IN ALARM	7 mA + Total Sounder Current Output
TIMER	15 settings from 0 to 10 minutes
OPERATING TEMPERATURE	-10ºC to 50ºC
MAX. HUMIDITY	95% RH Non-Condensing
DIMENSIONS	88 (L) x 72.5 (W) x 18 (H) mm
WEIGHT	4 zone - 60 g / 8 zone - 95 g
ORDER CODE	
GFE-MPX-SNDR-4	ORION MULTIPLEXED 4 ZONE SOUNDER CIRCUIT BOARD
GFE-MPX-SNDR-8	ORION MULTIPLEXED 8 ZONE SOUNDER CIRCUIT BOARD

INTERFACES

SELECTION TABLE				
NAME	CODE	USED IN	USED FOR	REQUIRED ACESSORIES
J-NET-ADV-COMS-TCP/IP	619-0000	JUNO-NET MAIN PANELS	PANEL-to-ODYSSEY/ MODBUS COMMUNICATION	J-NET-QUART
J-NET-ADV-COMS-FO	620-0000			J-NET-QUART/ RS232 CONVERTER
J-NET-ADV-COMS-485	618-0000			J-NET-QUART/ FOSTC
J-NET-INT-TCP/IP	617-0000	JUNIOR & JUNO-NET & ORION-PLUS PANELS RANGE	PANEL-to-PANEL NETWORK (REPEATERS/ SUB-PANELS/ NET-PRINTER)	NONE
J-NET-INT-FO	616-0000			
CHAMELEON-485-DTLOOP	614-C000			
GFE-TCP-WEB	617-W000		WEB-BROWSER	
GFE-TCP-ODY	617-0000	JUNIOR V4	PANEL-to-ODYSSEY	
ORION-INT-232	615-0000	ORION PANEL RANGE	ORION-to-ORION REPEATER CONNECTION	



GFE-TCP-WEB

Remote access TCP/IP interface

GFE-TCP-WEB is a new interface for TCP/IP communication, which will bring new functionalities to JUNIOR V4, JUNO NET and ORION-PLUS panels. It uses our data-loop protocol and an external web-server to send and receive information from panel. In this way, supervision over individual systems via web browser can be achievable easily. Panel status and operation is accomplished via an HTML5 webpage hosted in server provided by GFE in several languages and remainder customization options.

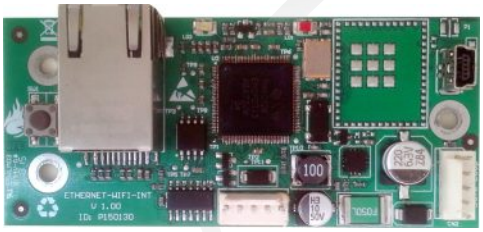
Network and web-server configurations are stored via available USB connector. Drivers, webpage and configuration manual are all available in our website.

Installers, end-users and maintenance providers will benefit the most of this new tool as it will increase responsiveness to any event reported by the system.

Key Features

- No port forwarding
- Free web-server account
- 24/7 panel monitoring
- Compatible with majority of web-browsers
- Easy remote technical support

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	20 to 30 V DC
SUPPLY CURRENT	28 mA
CONFIGURATION	USB mini
COMMUNICATION CONNECTOR	RJ45
INPUT	Restart switch
CONFIGURATION OPERATING SYSTEM	Windows XP/7/8/10, Mac OS, Linux, Android, IOS
OPERATING TEMPERATURE	-10ºC a 50ºC
DIMENSIONS	90 (L) x 40 (W) mm
WEIGHT	24 g
ORDER CODE	
GFE-TCP-WEB	REMOTE ACCESS TCP/IP INTERFACE



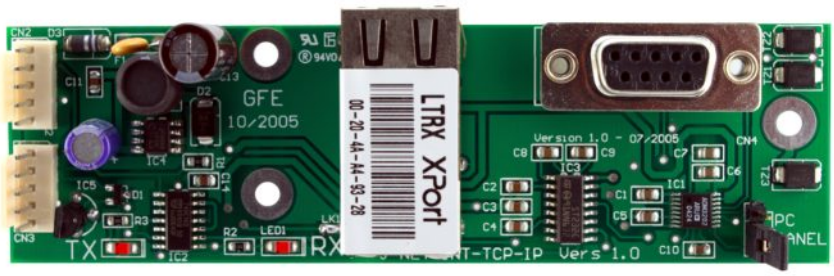
GFE-TCP-ODY

TCP/IP communication interface

GFE-TCP-ODY is a new interface for TCP/IP communication, for integration of JUNIOR V4 and ORION-PLUS panels into ODYSSEY XL software. It uses our advanced communication protocol to send and receive information from panel, enabling complete supervision over the most complex fire detection systems.

Network configurations are stored into interface through available USB connector.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	24 V DC
SUPPLY CURRENT	28 mA
CONFIGURATION	USB mini
COMMUNICATION CONNECTOR	RJ45
INPUT	Restart switch
COMPATIBLE PANELS	JUNIOR V4; ORION-PLUS (TBA)
COMPATIBLE OPERATING SYSTEM	Windows XP / 7 / 8 / 10
OPERATION TEMPERATURE	-10ºC to 50ºC
DIMENSIONS	90 (L) x 40 (W) mm
WEIGHT	24 g
ORDER CODE	
GFE-TCP-ODY	TCP/IP INTERFACE FOR ODYSSEY SOFTWARE



J-NET-INT-TCP/IP

TCP/IP Data Loop Interface

Global Fire Equipment produces a range of interfaces that allow its range of panels, both conventional and analogue addressable panels to communicate with repeaters and sub-panels.

Four different interfacing technologies are available, namely:

- RS232 (ORION Conventional Panel only)
- RS485
- Fibre Optics
- TCP/IP

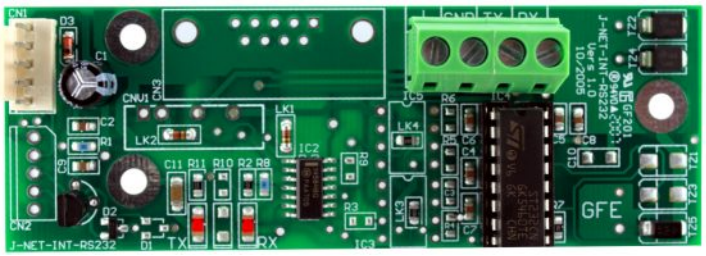
The J-NET-INT-TCP/IP interface is used when connecting any of GFE's range of Fire Detection panels to Repeaters or Sub-Panel, using TCP/IP protocol within a Local Area Network (LAN). Please note that sub-panels can only be interfaced to JUNO NET panels.

Both 10/100 Mbps speeds are supported by this device and communication rate is automatically set depending on the type of network to which the device is connected.

Interface is easily configured using LAN communications using Telnet. Alternatively the interface can also be configured using terminal emulation software via the serial port provided in the form of a D-Type 9 pin miniature connector.

Two Red LEDs on the interface board will assist the user when monitoring the system communication status.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	28 V DC nominal
SUPPLY CURRENT	45 mA
NETWORK	10 / 100 Mbit Ethernet - Auto-Sensing
CONFIGURATION	Network - Telnet Serial Port / Terminal Emulator
MAX. HUMIDITY	95% RH Non-Condensing
OPERATING TEMPERATURE	-10ºC to 50ºC
DIMENSIONS	120 (L) x 35.2 (W) x 18.4 (H) mm
WEIGHT	40 g
ORDER CODE	
J-NET-INT-TCP/P	DATA LOOP TCP/IP INTERFACE



ORION-INT-RS232

Orion Repeater Interface

The ORION-INT-RS232 interface module allows GFE's ORION Conventional Panels to be interfaced to ORION MINI-REPS and ORION REPS using a 4-core data communication cable suitable for serial data transmission.

This interface is compatible with the following panels and repeaters:

- ORION Conventional Panel 2, 4 and 8 zones - version 1.5 and above
- ORION REP and ORION MINI-REP

The maximum distance between panel and repeater is 100 m.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	28 V DC nominal - range 17 to 30 V DC
SUPPLY CURRENT	5 mA
SOFTWARE & HARDWARE COMPATIBILITY	ORION Conventional Panel-version 1.5 and above ORION MINI-REP and ORION REP
MAX. HUMIDITY	95% RH Non-Condensing
OPERATING TEMPERATURE	-10ºC to 50ºC
DIMENSIONS	100.3 (L) x 35 (W) x 18 (H) mm
WEIGHT	20 g
ORDER CODE	
ORION-INT-RS232	ORION RS232 REPEATER INTERFACE

DOOR HOLDERS

GFE-DHC

Conventional Magnetic Door Retainer

Conventional magnetic door retainer GFE-DHC, is the correct choice for increased magnetic force requirements or conventional system integration.

This module requires one addressable output module and 24V DC supply to be fully integrated into our addressable systems.

Regarding conventional system integration, zone activation is acheived through our GFE-MPX-REL module or conventional panel Fire relay for general activation.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	24 V DC
POWER	1.6 W
MAGNETIC FORCE	400 N
DIMENSIONS (MAGNET)	112.5 (H) x 84.2 (W) x 46.8 (D) mm
DIMENSIONS (KEEPER)	55 (H) x 55 (W) x 50 (D) mm
WEIGHT	139 g (keeper); 580 g (magnet w/ module); 746 g (complete boxed)
ORDER CODE	
GFE-DHC	CONVENTIONAL MAGNETIC DOOR RETAINER

POWER SUPPLY UNITS

GFE-BCM-3

PSU with Battery Charger Module

This unit is a fully EN54-4 compliant PSU incorporating a battery charger that can be used with all of GFE's addressable and conventional panels. It will monitor all fault conditions including: charger fault, charger voltage level, input voltage supply fault and supply removal. It is supplied boxed in an ABS plastic enclosure, including a 28 V DC @ 1.7 or 2.4 Amp PSU.

Key Features

- Battery Charger Monitored
- Fault Relay Output
- Low Battery Voltage Shutdown
- Reverse Polarity Protection
- Battery Charger Current Regulated
- LED indicators: AC ON, Battery & Charger Fault
- Boxed Unit inc. PSU and Battery Compartment
- Fully Compliant with EN54-4

TECHNICAL SPECIFICATIONS	
SUPPLY INPUT	230 V AC (+10% -15%) - Monitored
SUPPLY OUTPUT	1.7 A or 2.4 A @ 28 V DC nominal
BATTERY CHARGER - CURRENT O/P	1 A max.
BATTERY TYPE	Max. 2 x 12 V 7 AH - Lead Acid VRLA
BATTERY FUSE	3 A
FAULT RELAY	Changeover-30 V DC 1 A Resistive
OPERATING TEMPERATURE	-10ºC to 50ºC
HUMIDITY	Max. 95% no condensation
PROTECTION	IP21
DIMENSIONS	273 (L) x 107 (W) x 404 (H) mm
WEIGHT	1.7 Kg - 7 Kg inc. 2 x 7 AH Bat.
ORDER CODE	
GFE-BCM-3 (1.7 A)	BATTERY CHARGER MODULE - 28 V DC 1.7 A PSU - BOXED
GFE-BCM-3 (2.4 A)	BATTERY CHARGER MODULE - 28 V DC 2.4 A PSU - BOXED

Global Fire Equipment S.A.

Sítio dos Barrabés, Armazém Nave Y, Caixa Postal 908-Z
8150-016 São Brás de Alportel
PORTUGAL
TEL: +351 289 896560
sales@globalfire.pt
www.globalfire.pt

AUSTRALASIA

GLOBAL FIRE EQUIPMENT PHILIPPINES CO. LTD.
PHILIPPINES
sales@globalfire.ph
www.globalfire.ph

CAUCASUS

GFE BINA KONTROL SISTEMLERI LTD.
TURKEY
satis@gfe.com.tr
www.globalfire.com.tr

MIDDLE EAST & NORTH AFRICA

GLOBAL FIRE EQUIPMENT LTD. (FZC)
JORDAN
sales.mina@globalfireequipment.pt
www.globalfire.pt

SOUTHEAST ASIA

GLOBAL FIRE EQUIPMENT (S.E.A) SDN BHD
MALAYSIA
sales@globalfire.my
www.globalfire.pt

MANUFACTURERS OF FIRE DETECTION EQUIPMENT