PRODUCTS CATALOGUE

MANUFACTURERS OF FIRE DETECTION EQUIPMENT

GLOBAL
FIRE EQUIPMENT

PANELS

EN54-2 and EN54-4
CERTIFIED
1328-CPR-0160

JUNO NET

Networkable Fire Detection System

JUNO NET is a powerful Analogue Addressable Fire Alarm Control System with networking capabilities that facilitate the configuration of complex Wide Area Fire Detection Systems. Modular construction and distributed intelligence allow systems of up to 96 Loops to be constructed. With a high level of built-in redundancy and emergency back-up features, the JUNO NET is fully equipped to control the most complex installations.

Using its wide array of interfacing capabilities the **JUNO NET** is ideally placed to provide an efficient and effective solution to the logistics of protecting large institutions. **JUNO NET** is available as a standalone system of up to 13 Loops in a single cabinet and can be expanded to up to **96 Loops** via a networked array of sub-panels which can be supplied in a blank box version or combined with a repeater to allow remote display and control of the system. Networking is done by a monitored, redundant, double RS422/RS485, Fibre optic loop or TCP/IP network.

The **JUNO NET** networking capabilities are further enhanced by a wide range of programming options which provide the capability to customise the system according to the needs of the customer. Flexible cause and effect programming of I/O devices and warning devices ensure that Fire or Fault warnings trigger the appropriate response.

An interactive graphic representation of the system can be displayed on the users' computer via the **ODYSSEY** graphical software (optional). All the devices on the system can be displayed on a building plan showing their status in real time. In the event of fire or fault the customer can control the system and access all the necessary information with a few mouse-clicks.

Automatic device detection at start up reduces time spent at the commissioning stage. In Installation mode the **JUNO NET** detects and recognises addressed and connected devices with the system being fully operational in less than two minutes. The default programming ensures that the system is ready to detect Fire/Fault alerts from the moment that power is applied.

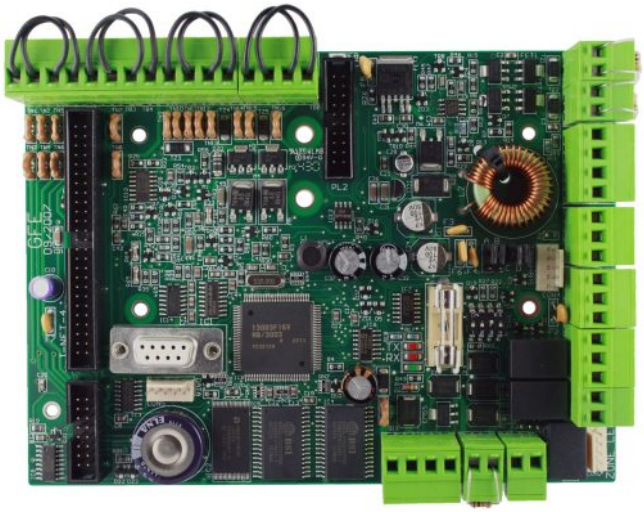
Additional programming, to customise the system can be implemented via the onboard keypad, IR programmer, PS/2 keyboard or with a laptop PC running the **GFE Connector** software which is available free of charge on the Global Fire website.

JUNO NET

Key Features

- Fully expandable system from 1-96 Loops with distributed intelligence for added security
- 125 Device addresses per loop
- Up to 96 Loop sounders with 32 individually programmable addresses per Loop
- 96 VULCAN 2 (addressable) ultra low current sounders or beacons per Loop. Only 64 of these units should be installed per loop when combined sounder beacons are being used. This number includes addressable, shadow, auxiliary and detector-sounder/beacon versions of these units
- Compatible with major analogue addressable communications protocols
- 2 Fire output changeover relays and 1 Fault output relay (NC)
- Open collector outputs for Fire, Fault and pre-alarm remote indication
- 2 Fully monitored conventional sounder outputs on main panel and each sub panel
- Repeaters with optional integrated Sub-Panels (J-NET-REP + Loop Card)
- 384 Programmable zones
- 512 Fully programmable sounder and I/O groups
- Event Log 2000 entries FIFO
- Backlit LCD display 4 row x 40 characters
- Programming options: onboard keypad, Remote IR (optional), PS2 Keyboard and GFE Connector Software
- PC Graphics package ODYSSEY for alarm management and reporting (optional)
- Multiple Language support (menu selectable)
- MODBUS (ASCII & RTU) and BMS support

TECHNICAL SPECIFICATIONS		1 - 4 LOOPS	4 - 13 LOOPS
LOOPS		1 to 4 loops - Max 275 mA per loop	4 to 13 loops - Max 275 mA per loop
SOUNDER OUTPUTS		2 at 28 V DC / 500 mA each	4/6/8 24 V DC / 500 mA each
AUX. RELAYS FIRE		2 rated 50 VAC / DC 1A resistive	2 rated 50 VAC / DC 1A resistive
AUX. RELAY FAULT		1 rated 50 VAC / DC 1A resistive	1 rated 50 VAC / DC 1A resistive
AUX SUPPLY OUTPUT		28 V DC; 2x230 mA	28 V DC; 2x230 mA
ADDITIONAL OUTPUTS		Multiplexed up to 384 Zones	Multiplexed up to 384 Zones
PRIMARY SUPPLY		230 +10% -15% V AC	230 +10% -15% V AC
SECONDARY SUPPLY		28 V DC Nominal	28 V DC Nominal
POWER SUPPLY RATING		65 W (1-3 Loop) - 150 W (4 Loop)	150 W (4-6 Loop) - 200 W (7-13 Loop)
QUIESCENT CURRENT (NO DEVICES)		130 mA (1-3 Loop) - 180 mA (4 Loop)	130 mA + 90 mA / sub-panel
BATTERIES (INTERNAL)		2 x 12 V 12 AH	2 x 12 V 12 AH
OPERATING TEMPERATURE		-10ºC to 50ºC	-10ºC to 50ºC
STORAGE TEMPERATURE		-10ºC to 50ºC	-10ºC to 50ºC
HUMIDITY		Max 95% no condensation	Max 95% no condensation
PROTECTION		IP21	IP21
DIMENSIONS		375 (L) x 345 (W) x 139 (H) mm	420 (L) x 550 (W) x 127 (H) mm
WEIGHT		5,1 Kg (no batteries)	8,1 Kg (no batteries)
COLOUR		White or Red	White or Red
ORDER CODE			
J-NET-EN54-SC-001	1328-CPR-0160	1 LOOP - PSU 2.4A	
J-NET-EN54-SC-002	1328-CPR-0160	2 LOOPS - PSU 2.4A	
J-NET-EN54-SC-003	1328-CPR-0160	3 LOOPS - PSU 2.4A	
J-NET-EN54-SC-004		4 LOOPS - PSU 5A	
J-NET-EN54-SC-004-L			LARGE BOX - 4 LOOPS - PSU 5A
J-NET-EN54-SC-005			LARGE BOX - 5 LOOPS - PSU 5A
J-NET-EN54-SC-006			LARGE BOX - 6 LOOPS - PSU 5A
J-NET-EN54-SC-007			LARGE BOX - 7 LOOPS - PSU 7.5A
J-NET-EN54-SC-008			LARGE BOX - 8 LOOPS - PSU 7.5A
J-NET-EN54-SC-009			LARGE BOX - 9 LOOPS - PSU 7.5A
J-NET-EN54-SC-010			LARGE BOX - 10 LOOPS - PSU 7.5A
J-NET-EN54-SC-011			LARGE BOX - 11 LOOPS - PSU 7.5A
J-NET-EN54-SC-012			LARGE BOX - 12 LOOPS - PSU 7.5A
J-NET-EN54-SC-013			LARGE BOX - 13 LOOPS - PSU 7.5A



J-NET-CON-SP1

Juno Net Main Connector Board inc. 1 Loop Expansion Sub-Panel

The introduction of the J-NET-CON-SP1, brings in a new level of flexibility and competitiveness to our customers.

By including a single loop sub-panel in the J-NET-CON board, we were able to pack **4 loops** into our standard box. The new range of self contained JUNO NET panels covers all variants in steps of 1 from **1 to 13 loops**. Using this new board the JUNO NET panel can be provided in the standard box from 1 to 4 loops and on the larger enclosure from 4 to 13 loops.

The **J-NET-CON-SP1** is compatible with all models of interface cards used either when interfacing the JUNO NET Main Panel to other Sub-Panels and/or Repeaters or when connecting JUNO NET Systems to GFE's graphical software **ODYSSEY**, BMS or MODBUS.

TECHNICAL SPECIFICATIONS	
LOOPS	1 loop - Max 275 mA per loop
SOUNDER OUTPUTS	2 rated at 28 V DC 500 mA each
AUX. RELAYS FIRE	2 - Changeover C-NO-NC rated @ 50 VAC / DC 1A resistive
AUX. RELAY FAULT	1 - Normally Closed rated @ 50 VAC / DC 1A resistive
AUX POWER OUTPUT	2 rated @ 28 V DC 300 mA / output
ADDITIONAL OUTPUTS	Multiplexed up to 384 Zones
QUIESCENT CURRENT (NO DEVICES)	80 mA
DIMENSIONS	120 (L) x163 (W) x 27 (H) mm
WEIGHT	240 g
OPERATING TEMPERATURE	-10ºC to 50ºC
STORAGE TEMPERATURE	-10ºC to 50ºC
ORDER CODE	
J-NET-CON-SP1	JUNO NET MAIN CONNECTOR BOARD INC. 1 LOOP EXP. SUB-PANEL

NODE

Expansion board

The NODE allows expansion of the system in groups of either 1, 2 or 3 loops. When supplied in an enclosed cabinet with independent primary and secondary power supplies up to 9 Loops may be installed in each cabinet which also contains a 2.4 A PSU/ Charger unit and space for standby rechargeable batteries. One RS422/RS485, Fibre Optic or TCP/IP interface is required per cabinet to enable networking with the rest of the system.

Each NODE board controls up to 3 Analogue Addressable Detection Loops via its own independent processor. In the event of communication failure with the main control unit, the sub panel is capable of operating independently, detecting Fire/ Fault events and activating its own sounders and relays.

TECHNICAL SPECIFICATIONS	NODE STAND ALONE	NODE (BOXED)
LOOPS	1, 2 or 3 loops - Max. 275 mA/ Loop	1, 2 or 3 loops - Max. 275 mA/ Loop
SOUNDER OUTPUTS / sub-panel	2 at 28 V DC / 500 mA each	2 at 28 V DC / 500 mA each
AUX. RELAYS FIRE / sub-panel	2 rated 50 VAC / DC 1A resistive	2 rated 50 VAC / DC 1A resistive
AUX. RELAY FAULT / sub-panel	1 rated 50 VAC / DC 1A resistive	1 rated 50 VAC / DC 1A resistive
AUX POWER OUTPUT	28 V DC 400 mA	28 V DC 400 mA
PRIMARY SUPPLY	N/A	85-265 V AC, 50/60 Hz
SECONDARY SUPPLY	28 V DC Nominal	28 V DC Nominal
POWER SUPPLY RATING	N/A	64.8 W
QUIESCENT CURRENT (NO DEVICES)	80 mA	80 mA
BATTERIES (INTERNAL)	N/A	2 x 12 V 12 AH
OPERATING TEMPERATURE	0ºC to 40ºC	0ºC to 40ºC
STORAGE TEMPERATURE	-10ºC to 50ºC	-10ºC to 50ºC
HUMIDITY / PROTECTION	N/A	Max 85% No condensation / IP21
DIMENSIONS	113 (L) x 180 (W) x 26 (H) mm	375 (L) x 345 (W) x 139 (H) mm
WEIGHT (NO BATTERIES)	0,3 Kg	4,5 Kg
ORDER CODE		
NODE-MB	NODE MOTHERBOARD	
NODE-1L	NODE W/ 1 LOOP	
NODE-2L	NODE W/ 2 LOOPS	
NODE-3L	NODE W/ 3 LOOPS	
J-NET-SPX-001-NODE		1 LOOP - 2.4 A PSU
J-NET-SPX-002-NODE		2 LOOP - 2.4 A PSU
J-NET-SPX-003-NODE		3 LOOPS - 2.4 A PSU
J-NET-SPX-004-NODE		4 LOOPS - 2.4 A PSU
J-NET-SPX-005-NODE		5 LOOPS - 2.4 A PSU
J-NET-SPX-006-NODE		6 LOOPS - 2.4 A PSU
J-NET-SPX-007-NODE		7 LOOPS - 2.4 A PSU
J-NET-SPX-008-NODE		8 LOOPS - 2.4 A PSU
J-NET-SPX-009-NODE		9 LOOPS - 2.4 A PSU

J-NET-EN54-REP

Juno Net Repeater

The Juno Net Repeater Panel, J-NET-EN54-REP, fully replicates the control panel information and control facilities allowing multiple operating points within the system. The J-NET-EN54-REP communicates with the Master Control Panel via an RS422/RS485, Fibre Optic or TCP/IP network. Sub-Panels can be integrated into the repeater panel to allow the connection of up to 3 additional detection loops, per sub-panel, to the system.

J-NET-EN54-REP is ideal for multiple building complexes where display and control of the system is required in various locations. Depending on control panel loading, power for the **J-NET-EN54-REP** can be supplied from the control panel's auxiliary power output, an external 24 Volt power supply or an optional complete built-in 24 V, 2,4 A or 5 A power supply unit. If a sub-panel is installed in the repeater housing, then a 5 A power supply unit is required.

TECHNICAL SPECIFICATIONS	NO LOOP CARD	WITH LOOP CARD
LOOPS	N/A	1, 2 or 3 loops - Max. 275 mA per loop
SOUNDER OUTPUTS	2 at 28 V DC / 500 mA each	2 - 28 V DC / 500 mA each
AUX. RELAYS FIRE	2 rated 50 VAC / DC 1 A resistive	2 rated 50 VAC / DC 1A resistive
AUX. RELAY FAULT	1 rated 50 VAC / DC 1 A resistive	1 rated 50 VAC / DC 1A resistive
AUX SUPPLY OUTPUT	28 V DC, 2x230 mA	28 V DC, 2x230 mA
ADDITIONAL OUTPUTS	Multiplexed up to 384 Zones	Multiplexed up to 384 Zones
PRIMARY SUPPLY	N/A	230 +10% -15% V AC
SECONDARY SUPPLY	28 V DC Nominal	28 V DC Nominal
POWER SUPPLY RATING	N/A	65 W
QUIESCENT CURRENT (NO DEVICES)	110 mA	130 mA no loop devices fitted
BATTERIES (INTERNAL)	2 x 12 V 12 AH	2 x 12 V 12 AH
OPERATING TEMPERATURE	-10ºC to 50ºC	-10ºC to 50ºC
STORAGE TEMPERATURE	-10ºC to 50ºC	-10ºC to 50ºC
HUMIDITY	Max 95% no condensation	Max 95% no condensation
PROTECTION	IP21	IP21
COLOUR	White or Red	White or Red
DIMENSIONS	375 (L) x 345 (W) x 139 (H) mm	375 (L) x 345 (W) x 139 (H) mm
WEIGHT (NO BATTERIES)	4,5 Kg (no batteries)	5,1 Kg (no batteries)
ORDER CODE		
J-NET-EN54-REP	JUNO NET EN54 REPEATER	

EN54-2 and EN54-4
CERTIFIED
1328-CPR-0179

JUNIOR V4

Single Loop Analogue Addressable Control Panel Expandable to 2 Loops

The Global Fire JUNIOR V4 is a single loop Analogue addressable control panel which can be expanded to 2 loops. It provides a cost effective solution for small to medium sized installations. The JUNIOR V4 can support up to 125 addressable devices on each loop which are compatible with major analogue addressable communications protocols.

Using Global Fire's advanced communications mechanism, up to **32 individually addressed Loop sounders** can be connected to each of the JUNIOR V4 detection Loops. The JUNIOR V4 also supports Shadow and Auxiliary Sounder/ Beacons together with GFE's new VULCAN 2 addressable Sounder-Beacon-Isolator along with all other GFE Interface devices.

The panel is equipped with a backlit LCD display of 4 rows each with 40 characters to give clear textual indications of Fire/ Fault occurrences to the end user. There are also **16 Zone Fire LED indicators**.

Junior Repeaters and Mini-Repeaters can be connected via an RS422/RS485, Fibre Optic or TCP/IP interface to facilitate remote display and control of the system.

An interactive graphic representation of the system can be displayed on the users' computer via the **ODYSSEY** graphical software (optional). All the devices on the system can be displayed on a building plan showing their status in real time. In the event of fire or fault the customer can control the system and access all the necessary information with a few mouse-clicks.

Automatic Device Detection at start up reduces time spent at the commissioning stage. In Installation mode the JUNIOR V4 detects and recognises addressed and connected devices with the system being fully operational in less than 2 minutes.

The default programming ensures that the system is ready to detect Fire/ Fault alerts from the moment that power is applied. Additional programming, to customise the system can be implemented using a laptop PC running the GFE Connector software which is available free of charge on GFE's website.

JUNIOR V4

Key Features

- Single loop panel - Expandable to two Loops using JNR-V4-Card
- Supports connection to Mini-repeaters via RS422/RS485, Fibre Optic or TCP/IP interfaces
- 125 Device addresses per loop
- 32 Individually programmable sounder addresses per Loop
- 96 VULCAN 2 (addressable) ultra low current sounders or beacons per Loop. Only 64 of these units should be installed per loop when combined sounder beacons are being used. This number includes addressable, shadow, auxiliary and detector-sounder/ beacon versions of these units
- 2 Fire output relays (change-over) and 1 Fault relay (normally closed)
- 2 Conventional alarm outputs (individually programmable)
- 384 Fully programmable zones
- 512 Fully programmable sounder groups together with 512 Input/Output groups
- Event log (rolling, 2000 entries)
- Compatible with GFE's range of Analogue Addressable Devices
- Backlit LCD display with 4 rows of 40 characters
- PC Programming using Upload/Download GFE Connector Software
- PC Graphics package ODYSSEY for alarm management and reporting (optional)
- Multiple language support (menu selectable)
- Integrated 16 zone LED fire zone indication

TECHNICAL SPECIFICATIONS	
PRIMARY SUPPLY VOLTAGE - INPUT	230 +10% -15% V AC
PRIMARY SUPPLY VOLTAGE - OUTPUT	28.5 V DC nominal
PRIMARY SUPPLY CURRENT - OUTPUT	2.4 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	1.6 Amp Maximum @ 20°C
INTERNAL BATTERY CAPACITY - MAXIMUM	2 x 12 V 7Ah Sealed VRLA Lead Acid Batteries
LOOP CURRENT DRIVE	275 mA/Loop
AUXILIARY RELAY OUTPUTS	2 Fire (COM-NC-NO) - 1 Fault (COM-NC) non-supervised
CONVENTIONAL SOUNDER CIRCUITS	2 - 400 mA Max. current drive per circuit - Fully monitored
HUMIDITY	Max 95% RH Non-Condensing
PROTECTION	IP30
OPERATING TEMPERATURE	-10ºC to 50ºC
WEIGHT	2.0 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	
JNR-V4-1 1328-CPR-0179	JUNIOR V4, 1 LOOP EXPANDABLE TO 2 LOOPS, PSU 2.4 A
JNR-V4-2 1328-CPR-0179	JUNIOR V4, 2 LOOPS, PSU 2.4 A
JNR-V4-CARD	JUNIOR V4 LOOP CARD EXPANSION FROM 1 TO 2 LOOP

JUNIOR REP

Junior Repeater Panel

The JUNIOR REP will provide remote control, system status display and monitoring functions for any of GFE's Analogue Addressable Fire Detection Panels. All Fire, Fault, Test and Disabled conditions are displayed. User is able to control all functions at access Level's 1, 2 (authorized user level) and 3 (installer/programming level). Compliant with EN54-2. Display and Control Functions are replicated and shown in the same manner as on any of GFE's Analogue Addressable Fire Detection Panel. Access to Levels 2 and 3 is via the same code as programmed for the associated panel.

This unit uses the same plastic enclosure as the JUNIOR V4 panel and is available in 2 colours: **white and red.**

It includes as standard an RS485 interface.This unit is also compatible with all of GFE's standard data loop interfaces allowing the JUNIOR REP panel to be interfaced to both JUNIOR and JUNO NET addressable panels using RS485, Fibre Optic or TCP/IP.

A maximum of **4 JUNIOR REP** panels can be connected to a single Addressable Panel if powered directly from the Control Panel's Auxiliary Supply Output. This number is always dependent on maximum current.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	28 V DC nominal derived from panel's Aux. Supply O/P
SUPPLY CURRENT	80 mA
CONNECTIONS	+Supply, -Supply plus interface connections
REPEATER NETWORK	RS485, Fibre Optics, TCP/IP
NOTE	4 units max. when powered from aux. supply o/p from panel
HUMIDITY	Max 95% RH Non-Condensing
OPERATING TEMPERATURE	-10°C to 50°C
DIMENSIONS	273 (L) x 107 (W) x 404 (H) mm
WEIGHT	1.6 Kg
COLOUR	White or Red
ORDER CODE	
JUNIOR REP	JUNIOR REPEATER PANEL - NO LOOPS - INCLUDES 1 X RS485 INTERFACE

JUNIOR MINI-REP

Junior Mini-Repeater Panel

The JUNIOR MINI-REP will provide remote control, system status display and monitoring functions for any of GFE's Analogue Addressable Fire Detection Panels. All Fire, Fault, Test and Disabled conditions are displayed. User is able to control all functions at access Level's 1, 2 (authorized user level) and 3 (installer/programming level). Compliant with EN54-2. Display and Control Functions are replicated and shown in the same manner as on any of GFE's Analogue Addressable Fire Detection Panel. Access to Levels 2 and 3 is via the same code as programmed for the associated panel. This unit is available in 2 colours: white and red.

It includes as standard an RS485 interface. This unit is also compatible with all of GFE's standard data loop interfaces allowing the JUNIOR MINI-REP panel to be interfaced to both JUNIOR and JUNO NET addressable panels using RS485, Fibre Optic or TCP/IP.

A maximum of **4 JUNIOR MINI-REP** panels can be connected to a single Addressable Panel if powered directly from the Control Panel's Auxiliary Supply Output. This number is always dependent on maximum current.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	28 V DC nominal derived from panel's Aux. Supply O/P
SUPPLY CURRENT	80 mA
CONNECTIONS	+Supply, -Supply plus interface connections
REPEATER NETWORK	RS485, Fibre Optics, TCP/IP 4 units max. when powered from aux. supply o/p from panel
HUMIDITY	Max 95% RH Non-Condensing
OPERATING TEMPERATURE	-10ºC to 50ºC
DIMENSIONS	194 (L) x 256 (W) x 75 (H) mm
WEIGHT	1.5 Kg
COLOUR	White or Red
ORDER CODE	
JUNIOR-MINI-REP	JUNIOR MINI REPEATER PANEL - NO LOOPS INCLUDES 1 X RS485 INTERFACE

DETECTORS

ZEOS-AD

Analogue Addressable Fire Detectors

The ZEOS-AD series of Analogue Addressable Detectors have been designed to be fully compatible with the Global Fire Equipment range of intelligent control panels, JUNIOR and JUNO NET.

The ZEOS detector range, in conjunction with JUNIOR and JUNO NET panels, can accommodate several Alarm thresholds and timed options in combined smoke and heat detectors variants.

Certified to **EN54-5 and EN54-7** the ZEOS-AD series detectors are available in optical, heat and combined smoke/heat detector versions. Optionally they can be fitted with a short-circuit loop isolator.

Key Features

- Dual LEDs for 360º visibility
- Advanced detection and communication protocols
- Easy installation and maintenance
- Sleek low-profile housing
- Durable sensor head, no need for replacement
- SMD circuit board design. High quality and reliability guaranteed

TECHNICAL SPECIFICATIONS		
SUPPLY VOLTAGE		Loop Powered 17-30 V DC
CURRENT - QUIESCENT / SURGE		450 uA max.
CURRENT - DEVICE IN ALARM		4 mA - Alarm LED illuminated
SENSITIVITY		According to EN54-5 and EN54-7
CABLE SIZE		0.5-2.5 mm²
RESET/START-UP TIMES		20 seconds max.
SMOKE SENSITIVITY SETTINGS		Low / Normal (default) / High
HEAT ALARM SETPOINTS		55 C / 65 C (default) / 75 C / 85 C
MULTISENSOR MODES		Heat / Smoke / Combined (default)
COLOUR / CASE MATERIAL		White / ABS
NORMAL / TRANSIENT OPERATION TEMPERATURE		0ºC to 50ºC / -10ºC to 85ºC
MAX. HUMIDITY		95% RH Non-Condensing
DIMENSIONS		100 (D) x 50 (H) mm inc. base
WEIGHT		92 g (without base) & 144 g (inc. base)
ORDER CODE		
ZEOS-AD-S	1328-CPR-0521	ANALOGUE ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR
ZEOS-AD-H	1328-CPR-0520	ANALOGUE ADDRESSABLE TEMPERATURE/HEAT DETECTOR
ZEOS-AD-SH	1328-CPR-0519	ANALOGUE ADDRESSABLE COMBINED SMOKE & HEAT DETECTOR
ZEOS-AD-SI	1328-CPR-0607	ANALOGUE ADDRESSABLE PHOTOELECTRIC TEMPERATURE/HEAT DETECTOR WITH ISOLATOR
ZEOS-AD-HI	1328-CPR-0610	ANALOGUE ADDRESSABLE TEMPERATURE/HEAT DETECTOR WITH ISOLATOR
ZEOS-AD-SHI	1328-CPR-0492	ANALOGUE ADDRESSABLE COMBINED SMOKE & HEAT DETECTOR WITH ISOLATOR

ZEOS-AS

Analogue Addressable Fire Detectors with Smart Addressing

The ZEOS-AS series of Analogue Addressable Detectors have been designed to be fully compatible with Global Fire Equipment's range of intelligent control panels, JUNIOR and JUNO NET.

The ZEOS detector range, in conjunction with JUNIOR and JUNO NET panels, can accommodate several Alarm thresholds and timed options in combined smoke and heat detectors variants.

The ZEOS-AS series is certified to **EN54-5 and EN54-7** and consists of combined photoelectric smoke and heat detectors. Optionally they can be fitted with a short-circuit **loop isolator**.

The ZEOS-AS range of fire detectors is not addressed using a D.I.L. switch, it uses instead GFE's proprietary Smart Addressing Mechanism (**SAM**). The address can be set either by using GFE's analogue device programmer or alternatively, when used in conjunction with GFE's range of Intelligent Analogue Addressable Fire Detection Panels, GFE's automatic address setting mode **ASET**.

Key Features

- Dual LEDs for 360º visibility
- Advanced detection and communication protocols
- Easy installation and maintenance
- Sleek low-profile housing
- Durable sensor head, no need for replacement
- SMD circuit board design. High quality and reliability guaranteed

TECHNICAL SPECIFICATIONS		
SUPPLY VOLTAGE		Loop Powered 17-30 V DC
CURRENT - QUIESCENT / SURGE		450 uA max.
CURRENT - DEVICE IN ALARM		4 mA - Alarm LED illuminated
SENSITIVITY		According to EN54-5 or/and EN54-7, EN54-17
CABLE SIZE		0.5-2.5 mm²
RESET/START-UP TIMES		20 seconds max.
SMOKE SENSITIVITY SETTINGS		Low / Normal (default) / High
HEAT ALARM SETPOINTS		55 C / 65 C (default) / 75 C / 85 C
MULTISENSOR MODES		Heat / Smoke / Combined (default)
COLOUR / CASE MATERIAL		White / ABS
NORMAL / TRANSIENT OPERATION TEMPERATURE		0ºC to 50ºC / -10ºC to 85ºC
MAX. HUMIDITY		95% RH Non-Condensing
DIMENSIONS / WEIGHT		100 (D) x 50 (H) mm inc. base / 92 g (without base) & 144 g (inc. base)
ORDER CODE		
ZEOS-AS-S	1328-CPR-0526	ANALOGUE ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR WITH SMART ADDRESSING
ZEOS-AS-H	1328-CPR-0527	ANALOGUE ADDRESSABLE TEMPERATURE/HEAT DETECTOR WITH SMART ADDRESSING
ZEOS-AS-SH	1328-CPR-0525	ANALOGUE ADDRESSABLE COMBINED SMOKE & HEAT DETECTOR WITH SMART ADDRESSING
ZEOS-AS-SI	1328-CPR-0609	ANALOGUE ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR W/ ISOLATOR & SMART ADDRESSING
ZEOS-AS-HI	1328-CPR-0608	ANALOGUE ADDRESSABLE TEMPERATURE/HEAT DETECTOR W/ ISOLATOR & SMART ADDRESSING
ZEOS-AS-SHI	1328-CPR-0524	ANALOGUE ADDR. COMBINED SMOKE & HEAT DETECTOR W/ ISOLATOR & SMART ADDRESSING

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-ZEOS-PROGRAMMER

Portable Programmer

This equipment enables manual address assignment to all self-programmable devices. It should be used during maintenance and installation as an alternative to GFE's addressable panels ASET mode. Additionally it also allows installer to read address of the device and read its analogue value.

A larger battery life is obtained with use of lithium batteries, which can be recharged through available USB port.

LED Status

Green – Programmer is working correctly.

Green Flashing – Battery is charging

Yellow – Selected function in progress.

Red – Internal fault.

Red Flashing – Low battery.

Keypad Operation

OK -> Power ON
OK (2 seconds) -> Power OFF
UP -> Increase Address
DOWN -> Decrease Address
OK -> Program Address
UP & OK -> Read Analogue Value
UP & DOWN -> Read Address
DOWN -> Back

TECHNICAL SPECIFICATIONS	
OPERATING VOLTAGE	3.3 V (DC)
CHARGE CURRENT	100 mA max.
CHARGE VOLTAGE	5 V DC (Mini USB)
CHARGE DURATION	2 hours (max.)
AUTO POWER OFF	After 2 minutes
AUTONOMY	+500 operations
MAX. HUMIDITY	95% RH Non-Condensing
OPERATING TEMPERATURE	0°C to 40°C
DIMENSIONS	86 (D) x 25 (H) mm
WEIGHT	172 g
ORDER CODE	
GFE-ZEOS-PROGRAMMER	PORTABLE PROGRAMMER

GFE-REM-IND-A

Addressable Flashing Remote Indicator

The GFE-REM-IND-A is designed to provide discreet remote indication and is controlled by the addressable control panel, whilst providing the ability to monitor multiple sensors within a zone thereby minimising wiring requirements. The GFE-REM-IND-A is compatible with any of GFE's analogue addressable panels.

The unit can be activated either by any of GFE's analogue addressable fire detectors sharing the same loop address or alternatively by the panel's cause and effect programming and in this particular mode of operation, multiple detectors can be used to activate the device.

The GFE-REM-IND-A is supplied complete with a back box, enabling the device to be surface mounted. It will also fit on to a standard single gang box.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	Loop Powered - 20 V to 30 V DC
LOOP CURRENT - Remote Indicator	0.12 mA (Quiescent) - 2.5 mA (LED ON)
LOOP CURRENT - IO	0.625 mA (Quiescent) - 2.5 mA (LED ON)
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	60 g Boxed
ORDER CODE	
GFE-REM-IND-A	ADDRESSABLE 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

MANUAL CALL POINTS

GFE-MCPE-A

Addressable Manual Call Point

The GFE-MCPE-A is an Analogue Addressable Manual Call Point, designed and manufactured to comply with EN54-11, compatible with all GFE Addressable Control panels. With its enhanced communications mechanism the typical response time, when in alarm, is approximately one second, depending on the number of call points connected to the device loop. There is also a version incorporating a Loop Isolator.

A **bi-colour LED** flashes Green when the unit is interrogated by the control panel and is illuminated Red when in Alarm. The command to illuminate the Red LED is emitted by the control panel in response to activation of the individual call point thus confirming that the Alarm signal has been received at the control panel. The individual address, up to **125**, of each call point is set via an **eight way DIL switch**.

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		Loop Powered 20-30 V DC
CURRENT - QUIESCENT		500 uA - 650 uA for GFE-MCPE-AI
CURRENT - DEVICE IN ALARM		3.1mA - Yellow LED ON only applies to GFE-MCPE-AI
CABLE SIZE		0.5-2.5 mm²
MAX. RECOMMENDED PER LOOP		30 GFE-MCPE-A or 6 GFE-MCPE-AI
COLOUR / CASE MATERIAL		Red / ABS & Clear/ PC - Flame Retardant 94 V0
PROTECTION		IP24D
OPERATING 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-A	1328-CPR-0374	ADDRESSABLE MANUAL CALL POINT
GFE-MCPE-AI	1328-CPR-0375	ADDRESSABLE MANUAL CALL POINT WITH LOOP ISOLATOR

GFE-MCPE-AI-IP67

Addressable Manual Call Point Outdoor Use-IP67

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

With its enhanced communications mechanism, the typical response time, when in alarm, is approximately **one second**, depending on the number of call points connected to the device loop. The individual address, up to **125**, of each call point is set via an **eight way DIL switch**. Each unit is supplied, as standard, with a loop short circuit isolator. A bi-colour LED flashes Green when the unit is interrogated by the control panel and is illuminated Red when in alarm.

The GFE-MCPE-AI-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-AI-IP67 provides an ideal solution for GFE's addressable fire alarm systems. Ideal for all outdoor applications such as oil rigs, ships, factories as well as wash down areas that are sensitive to broken glass.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	Loop Powered 20-30 V DC
CURRENT - QUIESCENT	500 uA
CURRENT - DEVICE IN ALARM	3.5 mA - Alarm LED illuminated
MAX. CABLE SIZE	0.5-2.5 mm²
MAX. RECOMMENDED PER LOOP	30
COLOUR / CASE MATERIAL	Red / ABS & Clear/ Polycarbonate - Flame Retardant 94 V0
PROTECTION	IP67
OPER. TEMPERATURE / MAX. HUMIDITY	-10ºC to 50ºC / 95% RH Non-Condensing
DIMENSIONS	111.9 (H) x 111.9 (W) x 81.3 (D) mm
ORDER CODE	
GFE-MCPE-AI-IP67 1328-CPR-0376	IP67 RATED ADDRESSABLE CALL POINT

SOUNDERS & BEACONS

EN54-3 Type A
CERTIFIED
1328-CPR-0286

VALKYRIE AS

Addressable Wall Mount Sounder/ Beacon

The VALKYRIE AS is a Wall Mounted Addressable Sounder/ Beacon with low power consumption. Up to 32 individually addressed sounders can be installed per loop occupying address 94 to 125. The address is set using switches 1 to 5 of the 8 way DIL switch. Four different tones are available and selected using DIL switches 6 and 7.

When individual address reporting is not required, VALKYRIE AS can be configured as a Shadow Sounder. In this case sounders do not occupy an address in the loop thus freeing up addresses for more detection devices. Shadow sounders do not report back to the control panel so their presence on the loop is not monitored. Shadow sounders draw current from the loop (10 mA in alarm) and must be included in loop load calculations.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	Loop: 20 V to 30 V DC
LOOP CURRENT - QUIESCENT	0.5 mA
LOOP CURRENT - SOUNDER/ BEACON ACTIVE	10 mA - 280 mW @ 28 V DC inc. isolator
MAXIMUM SOUNDER OUTPUT	100 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 AS	1328-CPR-0286	ADDRESSABLE WALL SOUNDER
VALKYRIE ASB	1328-CPR-0286	ADDRESSABLE WALL SOUNDER/ BEACON
VALKYRIE ASI	1328-CPR-0286	ADDRESSABLE WALL SOUNDER WITH ISOLATOR
VALKYRIE ASBI	1328-CPR-0286	ADDRESSABLE WALL SOUNDER/ BEACON WITH ISOLATOR

EN54-3 Type B
CERTIFIED
1328-CPR-0299

VALKYRIE AS IP65

Addressable Wall Mount Sounder/ Beacon Outdoor Use-IP65

The VALKYRIE AS IP65 is a Wall Mounted Addressable Sounder/ Beacon with low power consumption. It is specifically designed to be used outdoors. Up to 32 individually addressed sounders can be installed per loop occupying address 94 to 125. The address is set using switches 1 to 5 of the 8 way DIL switch. Four different tones are available and selected using DIL switches 6 and 7.

When individual address reporting is not required, VALKYRIE AS IP65 can be configured as a Shadow Sounder. In this case sounders do not occupy an address in the loop thus freeing up addresses for more detection devices. Shadow sounders do not report back to the control panel so their presence on the loop is not monitored. Shadow sounders draw current from the loop (10 mA in alarm) and must be included in loop load calculations.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	Loop: 20 V to 30 V DC
LOOP CURRENT - QUIESCENT	0.5 mA
LOOP CURRENT - SOUNDER/ BEACON ACTIVE	10 mA - 280 mW @ 28 V DC inc. isolator
MAXIMUM SOUNDER OUTPUT	108 dB (@ 1 meter - 30 V DC)
MAX. CABLE SIZE	2.5 mm²
OPERATING TEMPERATURE	-25°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 ASI IP65 1328-CPR-0299	ADDRESSABLE WALL SOUNDER WITH ISOLATOR - IP65 RATED
VALKYRIE ASBI IP65 1328-CPR-0299	ADDRESSABLE WALL SOUNDER/ BEACON WITH ISOLATOR - IP65 RATED

VALKYRIE VOX A

Addressable Voice Sounder

The VALKYRIE VOX A is a wall mounted Addressable Voice Sounder which is available in either Red or White housings. The VALKYRIE VOX A voice sounder is based on our successful Horn type sounder and sounder/ beacon. Up to 32 individually addressed sounders can be installed per loop occupying an address in the range 94 to 125, it can be also configured the shadow mode. The address is set using switches 1 to 5 of the 8 way DIL switch.

With message selection directly programmable via the standard sounder programming of the JUNIOR and JUNO NET Panels, the VALKYRIE VOX A, can broadcast up to 5 differentiated pre-loaded messages: Alert, Fire, Evacuation, Test and Silence Message. The desired messages can be downloaded from our own proprietary recording PC application, via a standard USB interface. This product is Loop Controlled and Loop Powered.

Key Features

- Multi-Message. Follows Panel's Sounder Programming
- Multi-Language
- 107 dBA maximum sounder output at 1 m
- Messages easily programmed via USB interface using dedicated software
- Synchronization for fast activation

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	Loop: 20 V to 30 V DC
LOOP CURRENT	0.7 mA (Quiescent) - 7.5 mA Max. (Sounder active or charging)
LOOP CURRENT - ALARM BEACON	1.4 mA
SOUNDER OUTPUT @ 1 METER	Tone 104 dBA - Voice Message 107 dBA
MAX. CABLE SIZE	2.5 mm²
COLOUR / CASE MATERIAL	Red or White / ABS and PC
OPERATING TEMPERATURE / MAX. HUMIDITY	-10°C to 55°C / 95% RH Non-Condensing
PROTECTION	IP21C - Type A - Indoor use
DIMENSIONS	110 (D) x 83.6 (H) mm
WEIGHT	270 g / 325 g - inc. mounting base
ORDER CODE	
VALKYRIE VOX A	ADDRESSABLE VOICE SOUNDER
VALKYRIE VOX AB	ADDRESSABLE VOICE SOUNDER WITH BEACON

VALKYRIE VOX A IP65

Addressable Voice Sounder/ Beacon Outdoor Use-IP65

The VALKYRIE VOX A IP65 is a wall mounted Addressable Voice Sounder which is available in Red housings. It is specifically designed to be used outdoors. Up to 32 individually addressed sounders can be installed per loop occupying an address in the range 94 to 125, it can be also configured the shadow mode. The address is set using switches 1 to 5 of the 8 way DIL switch.

With message selection directly programmable via the standard sounder programming of the JUNIOR and JUNO NET Panels, the VALKYRIE VOX A IP65, can broadcast up to 5 differentiated pre-loaded messages: Alert, Fire, Evacuation, Test and Silence Message. The desired messages can be downloaded from our own proprietary recording PC application, via a standard USB interface. This product is Loop Controlled and Loop Powered.

Key Features

- Multi-Message. Follows Panel's Sounder Programming
- Multi-Language
- 107 dBA maximum sounder output at 1 m
- Messages easily programmed via USB interface using dedicated software
- Synchronization for fast activation

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	Loop: 20 V to 30 V DC
LOOP CURRENT	0.7 mA (Quiescent) - 7.5 mA Max. (Sounder active or charging)
LOOP CURRENT - ALARM BEACON	1.4 mA
SOUNDER OUTPUT @ 1 METER	Tone 104 dBA - Voice Message 107 dBA
MAX. CABLE SIZE	2.5 mm²
COLOUR / CASE MATERIAL	Red or White / 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	333 g / 400 g - inc. packaging
ORDER CODE	
VALKYRIE VOX AS IP65	ADDRESSABLE VOICE SOUNDER IP65 RATED
VALKYRIE VOX ASB IP65	ADDRESSABLE VOICE SOUNDER WITH BEACON IP65 RATED

VALKYRIE AB

Addressable Beacon

The VALKYRIE AB is a Wall Mounted Addressable Beacon with low power consumption. Up to 32 individually addressed beacons can be installed per loop occupying address 94 to 125. The address is set using switches 1 to 5 of the 8 way DIL switch.

When individual address reporting is not required, VALKYRIE AB can be configured as a Shadow Beacon. In this case sounders do not occupy an address in the loop thus freeing up addresses for more detection devices. Shadow beacons do not report back to the control panel so their presence on the loop is not monitored. Shadow beacons draw current from the loop (3 mA in alarm) and must be included in loop load calculations.

These units are produced using the latest high intensity LED technology and use extremely low levels of current consumption providing a highly visible flash.

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 - Type A - Indoor use
DIMENSIONS	110 (D) x 49.5 (H) mm
WEIGHT	150 g - inc. beacon / 180 g - inc. packaging
ORDER CODE	
VALKYRIE AB	ADDRESSABLE BEACON
VALKYRIE ABI	ADDRESSABLE BEACON WITH ISOLATOR

VALKYRIE ABI IP65

Addressable Wall Mounted Beacon w/ Isolator Outdoor Use-IP65

The VALKYRIE ABI IP65 is a Wall Mounted Addressable Beacon with Isolator and low power consumption. It is specifically designed to be used outdoors. Up to 32 individually addressed beacons can be installed per loop occupying address 94 to 125. The address is set using switches 1 to 5 of the 8 way DIL switch.

When individual address reporting is not required, VALKYRIE ABI IP65 can be configured as a Shadow Beacon. In this case sounders do not occupy an address in the loop thus freeing up addresses for more detection devices. Shadow beacons do not report back to the control panel so their presence on the loop is not monitored. Shadow beacons draw current from the loop (3 mA in alarm) and must be included in loop load calculations.

These units are produced using the latest high intensity LED technology and use extremely low levels of current consumption providing a highly visible flash.

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	-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 ABI IP65	ADDRESSABLE WALL MOUNTED BEACON WITH ISOLATOR - IP65 RATED

EN54-3 Type A
CERTIFIED
1328-CPR-0288

VULCAN 2 A

Addressable Low-Profile Sounder/ Beacon

The addressable VULCAN 2 A is available as an Addressable Sounder/ Beacon which may be field configured to operate in either SHADOW or AUXILIARY modes. There are also versions available incorporating a loop isolator. Up to 64 VULCAN 2 A Sounder/ Beacon devices can be connected to a single Loop depending on Loop Loading. All VULCAN 2 A devices have dip-switch Address setting while Tone and Mode selection is via a jumper. There is also a potentiometer which may be used to adjust the sound level if required. Normally the VULCAN 2 A will be used in conjunction with a detector however a lid is available as an option for the VULCAN 2 A.

Shadow Sounder/ Beacon: A Shadow Sounder/ Beacon does not have an individual address thus freeing up addresses for more detection devices. Shadow Sounder/ Beacons do not report back to the control panel so their presence on the Loop is not monitored.

Auxiliary Sounder/ Beacon: When the VULCAN 2 A is configured as an Auxiliary device, it shares the same address as the detector with which it is co-located. When operating in this mode the VULCAN 2 A monitors the Address loop for the command from the control Panel to the detector to illuminate its LED. When this command is received the VULCAN 2 A is also activated. If a Fire is confirmed the remaining sounders may be activated using the Evacuate command. This reduces the inconvenience to other guests in the event of a false alarm while at the same time giving early warning to the occupant of the room in the case of an actual Fire event. Pressing Sounder silence at the panel silences all active sounders. The maximum number of Auxiliary Sounder/ Beacons is 63 and they can be allocated between address 1 and 63.

TECHNICAL SPECIFICATIONS		
SUPPLY VOLTAGE		Loop Powered - 20 V to 30 V DC
LOOP CURRENT - QUIESCENT		0.5 mA
LOOP CURRENT - BEACON		Beacon 2.5 mA - Beacon with isolator 2.7 mA
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		White or Red / ABS - Transparent PC
DIMENSIONS / WEIGHT		100 (D) x 50 (H) mm / 144 g inc. base
ORDER CODE		
VULCAN 2 AS	1328-CPR-0288	ADDRESSABLE BASE SOUNDER
VULCAN 2 ASI	1328-CPR-0288	ADDRESSABLE BASE SOUNDER WITH ISOLATOR
VULCAN 2 ASB	1328-CPR-0288	ADDRESSABLE BASE SOUNDER WITH BEACON
VULCAN 2 ASBI	1328-CPR-0288	ADDRESSABLE BASE SOUNDER WITH BEACON WITH ISOLATOR
VULCAN 2 AB		ADDRESSABLE BEACON
VULCAN 2 ABI		ADDRESSABLE BEACON WITH ISOLATOR
VULCAN 2 L		OPAQUE LID FOR VULCAN 2
VULCAN 2 LT		TRANSPARENT LID FOR VULCAN 2

VULCAN 2 VOX A

Addressable Voice Sounder

The VULCAN 2 VOX A is a ceilling mounted Addressable Voice Sounder which is available in either White or Red housings. Normally the VULCAN 2 VOX A will be used in conjunction with a detector however a lid is available as an option. Up to 32 individually addressed sounders can be installed per loop occupying an address in the range 94 to 125. It can also be configured as shadow mode. The address is set using switches 1 to 5 of the 8 way DIL switch.

With message selection directly programmable via the standard sounder programming of the JUNIOR and JUNO NET panels, the VULCAN 2 VOX A, can broadcast up to 5 differentiated pre-loaded messages: Alert, Fire, Evacuation, Test and a Silence Message. The desired messages can be downloaded from our own proprietary recording PC application, via a standard USB interface. This product is exclusively loop powered and controlled.

Key Features

- Multi-Message. Follows Panel's Sounder Programming
- Multi-Language
- 94 dBA Maximum Sounder Output at 1m
- Messages easily programmed via USB interface using dedicated software
- Synchronization for fast activation
- Compatible with GFE's range of addressable panels

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	Loop: 20 V to 30 V DC
LOOP CURRENT	0.7 mA (Quiescent) - 7.5 mA Max. (Sounder active or charging)
LOOP CURRENT - ALARM BEACON	1.4 mA
SOUNDER OUTPUT @ 1 METER	Tone 90 dBA - Voice Message 94 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 55ºC / 95% RH Non-Condensing
COLOUR / CASE MATERIAL	White or Red / ABS - Transparent PC
PROTECTION	IP21C - Type A - Indoor use
DIMENSIONS	110 (D) x 29 (H) mm with Lid
WEIGHT	120 g / 140 g with Lid
ORDER CODE	
VULCAN 2 VOX AS	ADDRESSABLE VOICE BASE SOUNDER
VULCAN 2 VOX ASB	ADDRESSABLE VOICE BASE SOUNDER WITH BEACON
VULCAN 2 L	OPAQUE LID FOR VULCAN 2
VULCAN 2 LT	TRANSPARENT FOR VULCAN 2

VULCAN 2 DS

Addressable Detector Sounder/ Beacon

The addressable VULCAN 2 DS is available as a Detector Sounder, Beacon or combined Sounder/ Beacon. This particular device permits a conventional detector to be connected to the addressable loop via the Sounder and/or Beacon. There are also versions available incorporating a loop isolator.

All VULCAN 2 DS devices have dip-switch Address setting while Tone selection is via a jumper. Shadow Sounder and Detector Sounder settings are also achieved using the 8 way dip switch and a jumper respectively. There is also a potentiometer which may be used to adjust the sound level if required.

The number of Detector Sounders/ Beacons connected to each Loop is dependent on Loop loading and in any case the total number/ loop should not exceed 64. If only detector sounders are used then this number may be increased to 96 sounders per loop. This includes normal addressable sounder beacons placed between address 94 and 125. These are fully programmable in sounder groups. Detector Sounders are always placed between address 1 and 63 and cannot be included in sounder groups. Device will report to the panel as either a SMOKE or HEAT detector depending on Mode jumper position.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	Loop Powered - 20 V to 30 V DC
LOOP CURRENT - QUIESCENT	1.1 mA + conventional detector quiescent current
LOOP CURRENT - ALARM - 800 TO 1000 HZ	4 mA sounder only - 5.5 mA inc. Beacon
LOOP CURRENT - ALARM - 2.0 TO 3.0 KHZ	7 mA sounder only - 8 mA inc. Beacon
LOOP CURRENT - ALARM BEACON	2.5 mA
LOOP CURRENT - ISOLATOR	150 uA - added to device quiescent/ alarm current load
DETECTOR - ALARM CURRENT	12 mA - add to addressable device alarm loop current
SOUNDER OUTPUT - LOW / HIGH FREQ.	84 / 88 dB @ 1 m
MAX. CABLE SIZE	2.5 mm²
OPERATING TEMPERATURE	-10°C to 50°C
MAX. HUMIDITY	95% RH Non-Condensing
COLOUR / CASE MATERIAL	White or Red / ABS - Transparent PC - FR rating 94V0
DIMENSIONS	100 (D) x 29 (H) mm - with Lid 37.5 (H) mm
WEIGHT	100 g / 120 g with Lid
ORDER CODE	
VULCAN 2 DS	ADDRESSABLE DETECTOR SOUNDER
VULCAN 2 DSI	ADDRESSABLE DETECTOR SOUNDER - ISOLATOR
VULCAN 2 DSB	ADDRESSABLE DETECTOR SOUNDER/ BEACON
VULCAN 2 DSBI	ADDRESSABLE DETECTOR SOUNDER/ BEACON - ISOLATOR
VULCAN 2 DB	ADDRESSABLE DETECTOR BEACON

GFE-PA-VOX-A

Addressable PA Speaker Amplifier/ Controller

The GFE-PA-VOX-A is an addressable PA Speaker Amplifier/ Controller which is available in either Red or White housings. The GFE-PA-VOX-A is able to provide a maximum of 24 W of sound output to a single PA Speaker. Up to 32 individually addressed controllers can be installed per loop occupying an address in the range 94 to 125. The address is set using switches 1 to 5 of the 8 way DIL switch.

With message selection directly programmable via the standard sounder programming of the JUNIOR and JUNO NET panels, the GFE-PA-VOX-A, can broadcast up to 5 differentiated pre-loaded messages. The desired messages can be downloaded from our own proprietary recording PC application, via a standard USB interface.

This product is loop controlled and externally powered.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	Loop: 17-30 V DC - External Supply: 20-30 V DC
LOOP CURRENT	0.5 mA (Quiescent) - 0.5 mA (Sounder Active)
POWER OUTPUT MAX.	2.0 mA (Quiescent) - 1.0 A (Sounder Active)
EXTERNAL SUPPLY - CURRENT	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-A	ADDRESSABLE PA SPEAKER AMPLIFIER/ CONTROLLER

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

LSC-ISO

Loop Sounder Control Module

(with 1 A monitored output)

The LSC-ISO Module is a fully monitored interface which is used to connect a line of conventional sounders to the GFE's range of Addressable Fire Detection Control Panels via the detection loop. The Green LED will pulse every time the unit is polled by the panel. Three LEDs are provided to indicate module status. The Yellow LED will be ON whenever there is a fault condition in the module and finally the Red LED will be ON when there is an alarm condition in the conventional zone.

The module requires an external 24V DC power supply and can supply up to 1A at the sounder output which is monitored for both open and short circuit faults. A 10 K ohm end of line resistor is connected to the last sounder to provide line monitoring.

The LSC-ISO uses the Global Fire proprietary sounder control protocol and therefore is only compatible with GFE's range of addressable control panels.

The output can be programmed as pulsed or continuous. A maximum of 32 LSC-ISO can be connected to each Loop using address numbers 94 to 125 inclusive.

Also available complete with housing. Address setting is via switches 1 to 5 of the 6 way DIL switch where all off represents address 94.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	17 V to 30 V DC
LOOP CURRENT	1.0 mA (Quiescent or OC/ SC FAULT) - 1.65 mA O/P active
EXT. SUPPLY CURRENT @ 24 V DC	1.2 mA Quiescent - 1 Amp maximum for sounders
MAX. CABLE SIZE	2.5 mm²
OPERATING TEMPERATURE	-10ºC to 50ºC
MAX. HUMIDITY	95% RH Non-Condensing
ENCLOSURE / MATERIAL	White or Red / ABS
DIMENSIONS	100 (D) x 48 (H) mm
WEIGHT - MODULE	24 g
WEIGHT - BOXED	155 g
ORDER CODE	
LSC-ISO	LOOP SOUNDER CONTROL UNIT

MODULES

GFE-GSM-INT

GSM/GPRS Interface Module

The GFE-GSM-INT Modules can interface directly to GFE's range of panels, providing the panel with the capability of event transmission via either voice or SMS messaging. The unit can also be used in standalone mode using the digital inputs and relay outputs provided.

The module interfaces directly to the panel's data loop and SMS messages can be programmed to be sent for each new event. A total of 11 voice messages can also be programmed using the module's configuration software GSM Loader. This software is available for download from GFE's web site. Both SMS and Voice messages can be associated with the following events: Fire, Fault, Acknowledge, Reset, Input and Output Activation.

Standalone operation is obtained using the 3 digital inputs and 3 output relays. Both SMS and Voice messages can be associated to any of the inputs/ outputs available to report change of condition/ operation.

Key Features

- GSM and GPRS Operation
- SMS and Voice Messaging
- Data Loop Connection to GFE's Fire Detection Panels
- 3 Digital Inputs and 3 Relay Outputs for Standalone operation
- Easy to Use Configuration Software GSM Loader

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	20 V to 30 V DC
OUTPUT RELAY CONTACT RATING	2 A 30 V DC / 0.5 A 125 V AC
MAX. CABLE SIZE	2.5 mm²
CASE MATERIAL	ABS
OPERATING TEMPERATURE	-10ºC to 50ºC
MAX. HUMIDITY	95% RH Non-Condensing
DIMENSIONS	90 (L) x 150 (W) x 32 (H) mm
WEIGHT	216 g - boxed
ORDER CODE	
GFE-GSM-INT	GSM/ GPRS INTERFACE MODULE

QUAD ZMU

Addressable QUAD Zone Monitoring Unit

The QUAD-ZMU is a fully monitored interface module which is used to connect up to four individually addressed zones of current-limited conventional detection devices to the Global Fire Addressable control panel via the detection loop.

The module requires an external 24 V DC power supply. Active End of Line Monitoring with BS5839 Detector Removal compliance when Diode bases are used (New Feature).

The detection Zones and their supply voltage are optically isolated from the addressable detection loop which allows the use of a local power supply. If that supply fails, a fault condition is reported at the control panel.

The status of each zone is indicated by two LEDs. A Red LED signals Fire, Yellow indicates Fault on that zone. The normal state is indicated by neither LEDs being illuminated. A Green LED indicates the presence of 24 Volts.

TECHNICAL SPECIFICATIONS		
EXTERNAL SUPPLY VOLTAGE		20 V to 30 V DC
LOOP CURRENT		0.5 mA
EXT. SUPPLY CURRENT @ 24 V DC		5.3 mA Quiescent - per zone OC/ SC/ FIRE - 7/ 33/ 23 mA
MAX. CABLE SIZE		2.5 mm²
CASE MATERIAL		ABS
OPERATING TEMPERATURE		-10°C to 50°C
MAX. HUMIDITY		95% RH Non-Condensing
DIMENSIONS		90 (L) x 150 (W) x 32 (H) mm
WEIGHT		220 g - boxed
ORDER CODE		
QUAD-ZMU 1Z	1328-CPR-0575	ADDRESSABLE 1 CONVENTIONAL ZONE MONITORING UNIT
QUAD-ZMU 2Z	1328-CPR-0579	ADDRESSABLE 2 CONVENTIONAL ZONES MONITORING UNIT
QUAD-ZMU 3Z	1328-CPR-0578	ADDRESSABLE 3 CONVENTIONAL ZONES MONITORING UNIT
QUAD-ZMU 4Z	1328-CPR-0577	ADDRESSABLE 4 CONVENTIONAL ZONES MONITORING UNIT

4 & 8 INPUT

4 & 8 Input Addressable Module

The Addressable 4 or 8 Input Modules are fully monitored devices which permit the interfacing of third party equipment with the Fire Alarm Control panel using normally open dry contact connections.

The connection to each input is monitored for fault (open or short-circuit) and Alarm conditions.

The interface is used to monitor the contacts of an external system which must be interfaced to the Fire Alarm System, for example a Flow Switch in a sprinkler system to indicate if the sprinklers have been activated or extinguishant level monitoring in Gas Extinguishing Systems etc.

A 4 way D.I.L. switch is provided to configure the module's address. This value can be set in the range 1 to 125.

Key Features

- Fast Activation Response
- Loop Powered
- Individual Status LEDs for each Input
- Low Power Consumption
- Plastic Enclosure

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	Loop Powered - 17 V to 30 V DC
LOOP CURRENT - QUIESCENT (I_q)	4 Input 2.6 mA - 8 Input 3.2 mA
LOOP CURRENT - ALARM	IQ+ 0.9 mA for each I/P in alarm
LOOP CURRENT - SHORT-CIRCUIT	IQ+ 0.9 mA for each I/P in short-circuit
LOOP CURRENT - OPEN CIRCUIT	IQ+ 0.5 mA for each I/P in open circuit
MAX. CABLE SIZE	2.5 mm²
CASE MATERIAL	ABS
OPERATING TEMPERATURE	-10°C to 50°C
MAX. HUMIDITY	95% RH Non-Condensing
DIMENSIONS	90 (L) x 150 (W) x 32 (H) mm
WEIGHT	4 Input 205 g / 8 Input 215 g - boxed
ORDER CODE	
4 INPUT	4 INPUT ADDRESSABLE MODULE WITH DUAL GANG BOX
8 INPUT	8 INPUT ADDRESSABLE MODULE WITH DUAL GANG BOX

3 I/O PLUS

Addressable Triple Input/Output Module

The 3 I/O PLUS Modules are fully monitored loop powered devices which permit the interfacing of third party equipment with the Fire Alarm Control panel using normally open dry contact connections. Each module can be fitted with a maximum of 3 inputs and 3 outputs. The connection to each input is monitored for fault (open or short-circuit) and Alarm conditions.

The interface is used to monitor the contacts of an external system which must be interfaced to the Fire Alarm System, for example a Flow Switch in a sprinkler system to indicate if the sprinklers have been activated or extinguishant level monitoring in Gas Extinguishing Systems, etc.

Module is provided with a loop short-circuit isolator and with up to 3 voltage free single pole change over relay outputs. The output relays are always powered directly from the detection loop. It is not required to use an external 24 V DC power supply. Relay operation is confirmed by an onboard Red LED. A 8 way D.I.L. switch is provided to configure the module's address. This value can be set in the range 1 to 125.

The following programmable functions are available: Input Activation Mode, Delayed Input Alarm Activation, Output Delayed Activation.

Key Features

- Fast Activation Response
- Loop Powered
- Status LEDs for each I/O and O/P
- Low Power Consumption
- Module features an integral short-circuit loop isolator

TECHNICAL SPECIFICATIONS		
SUPPLY VOLTAGE		Loop Powered - 17 V to 30 V DC
LOOP CURRENT - QUIESCENT (I_Q)		1.4 mA (1 ch.) - 1.5 mA (2 ch.) - 1.6 mA (3 ch.)
LOOP CURRENT - ALARM		IQ+ 1.2 mA for each I/P in alarm
LOOP CURRENT - SHORT-CIRCUIT		IQ+ 1.4 mA max.
LOOP CURRENT - OPEN CIRCUIT		IQ+ 1.0 mA max.
LOOP CURRENT - OUTPUT		IQ+ 1.1 mA for each O/P activated
OUTPUT RELAY CONTACT RATING		2 A 30 V DC / 0.5 A 125 V AC
MAX. CABLE SIZE		2.5 mm²
CASE MATERIAL		ABS
OPERATING TEMPERATURE		-10ºC to 50ºC
MAX. HUMIDITY		95% RH Non-Condensing
DIMENSIONS		90 (L) x 150 (W) x 32 (H) mm
WEIGHT		216 g - boxed
ORDER CODE		
3 I/O PLUS - 1 CHANNEL	1328-CPR-0542	ADDRESSABLE SINGLE I/O MODULE - W/ ISOLATOR - W/ DUAL GANG BOX
3 I/O PLUS - 2 CHANNEL	1328-CPR-0543	ADDRESSABLE DOUBLE I/O MODULE - W/ ISOLATOR - W/ DUAL GANG BOX
3 I/O PLUS - 3 CHANNEL	1328-CPR-0544	ADDRESSABLE TRIPLE I/O MODULE - W/ ISOLATOR - W/ DUAL GANG BOX

MAINS I/O

1 channel Input/Output Module

The MAINS I/O Modules are fully monitored loop powered devices which permit the interfacing of third party equipment with the Fire Alarm Control panel using normally open dry contact connections.

The connection to the input is monitored for fault (open or short circuit) and Alarm conditions.

The interface is used to monitor the contacts of an external system which must be interfaced to the Fire Alarm System, for example a Flow Switch in a sprinkler system to indicate if the sprinklers have been activated or extinguishant level monitoring in Gas Extinguishing systems, etc.

Module is provided with a loop short-circuit isolator and with a voltage free single pole change over mains rated output. The output relay is always powered directly from the detection loop. It is not required to use an external 24V DC power supply. Relay operation is confirmed by an onboard red LED.

A 8 way D.I.L. switch is provided to configure the module's address. This value can be set in the range 1 to 125.

The following programmable functions are available: Input Activation Mode, Delayed Input Alarm Activation, Output Delayed Activation.

Key Features

- Fast Activation Response
- Loop Powered
- Five Status LEDs provided
- Low Power Consumption
- Module features an integral short-circuit loop isolator
- Single mains rated relay contact

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	Loop Powered - 17 V to 30 V DC
LOOP CURRENT - QUIESCENT (I_Q)	1.3 mA
LOOP CURRENT - ALARM	2.9 mA
LOOP CURRENT - FAULT	2.9 mA (SC) - 2.6 mA (OC)
LOOP CURRENT - OUTPUT ACTIVE	2.8 mA
OUTPUT RELAY CONTACT RATING	8A 250 VAC/ 30 V DC
MAX. CABLE SIZE	2.5 mm²
CASE MATERIAL	ABS
OPERATING TEMPERATURE	-10°C to 50°C
MAX. HUMIDITY	95% RH Non-Condensing
DIMENSIONS	90 (L) x 150 (W) x 32 (H) mm
WEIGHT	210 g - boxed
ORDER CODE	
MAINS I/O 1328-CPR-0545	1 CHANNEL INPUT/OUTPUT - W/ MAINS RATED RELAY W/ ISOLATOR - W/ DUAL GANG BOX

CCPI

Conventional Control Panel Interface

The Conventional Control Panel Interface provides 8 individually addressed normally open inputs and 3 pre-defined outputs. The interface permits the connection of a Conventional Fire Alarm Control Panel with up to 8 Zones to the Global Fire Analogue Addressable Fire Control Panel via the detection loop.

The outputs are pre-defined as Silence, Reset and Evacuation and allow these functions on the conventional panel to be executed from the Addressable System. An external 24 V DC supply is required to power the onboard relays. This supply is optically isolated from the detection Loop. The silence, reset and evacuation relay operations are indicated by 3 Red LEDs.

Each CCPI occupies 8 addresses on the Loop even when not all inputs are used. Each INPUT should be fitted with an end-of-line resistor (22 K Ohm) and open short circuit fault conditions are also individually monitored.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	Loop Powered - 17 V to 30 V DC
LOOP CURRENT - QUIESCENT (I_Q)	3.2 mA
LOOP CURRENT - ALARM	I_Q+ 0.9 mA for each I/P in alarm
LOOP CURRENT - SHORT-CIRCUIT	I_Q+ 0.9 mA for each I/P in short-circuit
LOOP CURRENT - OPEN CIRCUIT	I_Q+ 0.5 mA for each I/P in open circuit
EXT. SUPPLY CURRENT @ 24 V DC	5 mA Quiescent - 21 mA Max.
END OF LINE RESISTOR (E.O.L.)	22 K Ohm
INPUT - SHORT CIRCUIT	Short Circuit < 2.2 K Ohms
INPUT - OPEN CIRCUIT	Open Circuit > 47 K Ohms
INPUT - OK - NO ALARM OR FAULT	8.2 K Ohms < OK < 47 K Ohms
INPUT - FIRE	2.2 K Ohms < FIRE < 8.2 K Ohms
MAX. CABLE SIZE	2.5 mm²
OPERATING TEMPERATURE	-10°C to 50°C
MAX. HUMIDITY	95% RH Non-Condensing
DIMENSIONS	90 (L) x 150 (W) x 32 (H) mm
WEIGHT	220 g inc. packaging
ORDER CODE	
CCPI	CONVENTIONAL CONTROL PANEL INTERFACE

INPUT

Addressable Input Module

The Addressable Input Module is a fully monitored device which permits the interfacing of third party equipment with the Fire Alarm Control panel using normally open dry contact connections. The Green LED will pulse every time the unit is polled by the panel and the Red LED will be ON whenever there is an alarm condition at the module's input.

The connection to the input is monitored for Fault (open or short circuit) and Alarm conditions. The interface is used to monitor the contacts of an external system which must be interfaced to the Fire Alarm System, for example a Flow Switch in a sprinkler system to indicate if the sprinklers have been activated or extinguishant level monitoring in Gas Extinguishing systems etc.

An 8 way DIL switch is provided to configure the module's address. This value can be set in the range 1 to 125.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	Loop Powered - 17 V to 30 V DC
LOOP CURRENT - QUIESCENT	I/P. OK 0.46 mA - FLT OC 0.33 mA - FLT SC 0.79 mA
LOOP CURRENT - ALARM LED ILLUMINATED	2.0 mA
MAX. CABLE SIZE	2.5 mm²
OPERATING TEMPERATURE	-10ºC to 50ºC
MAX. HUMIDITY	95% RH Non-Condensing
ENCLOSURE / MATERIAL	White or Red / ABS
DIMENSIONS	100 (D) x 48 (H) mm
WEIGHT - MODULE	22 g
WEIGHT - BOXED	123 g
ORDER CODE	
INPUT	ADDRESSABLE INPUT MODULE

IO-ISO

Addressable Input/Output Module

The Addressable Input/Output Module is a fully monitored device which permits the interfacing of third party equipment with the Fire Alarm Control panel using normally open dry contact connections while also providing a changeover output relay to control ancillary equipment. The Green LED will pulse every time the unit is polled by the panel. The Yellow LED will be ON whenever there is a fault condition in the module and finally the Red LED will be ON when there is an alarm condition at the module's input.

The connection to the input is monitored for Fault (open or short circuit) and Alarm conditions. The output relay can be powered from the detection loop. Relay operation is confirmed by an onboard Yellow LED. The interface is used to monitor the contacts of an external system which must be interfaced to the Fire Alarm System, for example a Flow Switch in a sprinkler system to indicate if the sprinklers have been activated or extinguishant level monitoring in Gas Extinguishing Systems etc.

The output relay can be programmed to close fire doors, activate smoke removal systems etc. The factory default setting is for the relay to receive its operating power from the loop.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	Loop Powered - 17 V to 30 V DC
LOOP CURRENT - QUIESCENT	I/P: OK 0.46 mA - FLT OC 0.33 mA - FLT SC 0.79 mA
LOOP CURRENT - ALARM LED ILLUMINATED	2.0 mA +9.8 mA with Relay Active
MAX. CABLE SIZE	2.5 mm²
PROTECTION	IP43
OPERATING TEMPERATURE	-10°C to 50°C
MAX. HUMIDITY	95% RH Non-Condensing
ENCLOSURE / MATERIAL	White or Red / ABS
DIMENSIONS	100 (D) x 48 (H) mm
WEIGHT - MODULE	29 g
WEIGHT - BOXED	134 g
ORDER CODE	
IO-ISO	ADDRESSABLE INPUT/OUTPUT MODULE

ZMU

Addressable Zone Monitoring Unit

The ZMU is a fully monitored interface module, which is used to connect a number of current limited conventional detectors to the Global Fire Addressable control panel via the detection loop. These detectors are then seen as one address at the addressable control panel.

The module can be either powered from the Loop or an external power supply. The detector line can be monitored by a bipolar electrolitic capacitor. This will reduce considerably the quiescent current load on the loop. Alternatively a resistor can be used as an end of line device. Three LEDs are provided in order to monitor the operational status of the module.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	Loop Powered - 20 V to 30 V DC
LOOP CURRENT - LOOP POWERED	1.8 mA (Quiescent) - 3.2 mA (Zone OC) 25 mA (FIRE) - 38 mA (Zone Short-Circuit)
LOOP CURRENT - EXTERNAL SUPPLY	0.5 mA
CURRENT - EXTERNAL SUPPLY	4.5 mA (Quiescent) - 4.5 mA (Zone OC) @ 28 V DC nominal 29 mA (FIRE) - 44 mA (Zone Short-Circuit) @ 28V DC nominal
MAX. CONVENTIONAL DEVICES/ ZONE	32
MAX. NO. OF MODULES/ LOOP	20
MAX. CABLE SIZE	2.5 mm²
OPERATING TEMPERATURE	-10ºC to 50ºC
MAX. HUMIDITY	95% RH Non-Condensing
ENCLOSURE / MATERIAL	White or Red / ABS
DIMENSIONS	100 (D) x 48 (H) mm
WEIGHT - MODULE	19 g
WEIGHT - BOXED	109 g
ORDER CODE	
ZMU	ADDRESSABLE ZONE MONITORING UNIT

EN54-17:2005 + AC:2007
CERTIFIED
1328-CPR-0538

GFE-AD-ISO

Standalone Loop Isolator

The GFE-AD-ISO is a standalone negative switching loop isolator, designed to isolate short circuits on the addressable detection loop of a Global Fire Equipment JUNO NET or JUNIOR control panel.

Up to 32 detection devices may be connected between two isolators as per EN54.

The GFE-AD-ISO is loop powered and polarity sensitive and care must be taken to follow the indications on the PCB. Also as two LEDs are fitted to facilitate “Loop in” and “Loop out” identification a consistent approach should be taken to wiring the isolator in this respect.

TECHNICAL SPECIFICATIONS	
LOOP OPERATING VOLTAGE	17 V to 40 V
LOOP CURRENT - QUIESCENT	0.25 mA @ 28 V DC nominal
LOOP CURRENT - ISOLATED LED ON	6.2 mA @ 28 V DC nominal
MAXIMUM SERIES IMPEDANCE (Zcmax)	28 mOhm
MAX LEAKAGE CURRENT (iLmax)	2.7 mA
MAX RATED SWITCHING CURRENT (Is max)	1 A
MAX. CABLE SIZE	2.5 mm²
OPERATING TEMPERATURE	-10°C to 50°C
MAX. HUMIDITY	95% RH Non-Condensing
ENCLOSURE / MATERIAL	White or Red / ABS
DIMENSIONS	100 (D) x 48 (H) mm
WEIGHT	105 g - 142 g including packaging
ORDER CODE	
GFE-AD-ISO 1328-CPR-0538	STANDALONE LOOP ISOLATOR

MAM

Manually Addressed Module

The MAM allows the connection and addressing of Conventional Detectors, Call Points, Micro Input, Micro Output and Conventional Sounder/ Beacon.

With its small physical size and convenient 8 way DIL switch for address setting and configuration, the MAM provides the facility to upgrade all the components of a conventional system to a full addressable system, making it an ideal solution for retrofitting installations. The MAM is fully compatible with all our standard addressable modules, addressable sounders, addressable manual call points and GFE detectors facilitating extensions to existing systems.

To assist easy identification the MAM is supplied in 3 coloured plastic housings:

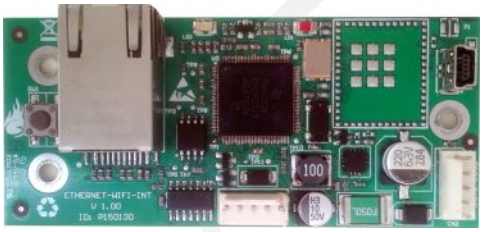
- **Red -** Manual Call Point interface/ Micro Input Module
- **Yellow -** Micro Output Module/ Loop Sounder/ Beacon Controller
- **White -** Smoke/ Heat Detector interface.

Device type selection is by means of switch 8 on the DIL. Additionally the MAM-LSC can be set as a sounder or beacon driver using switch 7. In Sounder mode the output is removed when a Silence Alarm signal is received from the control panel. In Beacon mode the output remains active until the system is reset.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	Loop Powered - 17 V to 30 V DC
LOOP CURRENT - QUIESCENT	1.1 mA
LOOP CURRENT - ALARM	12 mA
ADDRESS RANGE	1-125 (Detectors, MCP, I/O) 94-125 (Sounder/ Beacons)
MAX. CABLE SIZE	2.5 mm²
MAX. HUMIDITY	95% RH Non-Condensing
OPERATING TEMPERATURE	-10°C to 50°C
DIMENSIONS	48 (L) x 24 (W) x 12 (H) mm
WEIGHT	18 g
ORDER CODE	
MAM-RED	MANUALLY ADDRESSED MODULE FOR CALL POINT OR INPUT
MAM-WHITE	MANUALLY ADDRESSED MODULE FOR SMOKE OR HEAT DETECTOR
MAM-YELLOW	MANUALLY ADDRESSED MODULE FOR LSC OR OUTPUT

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.

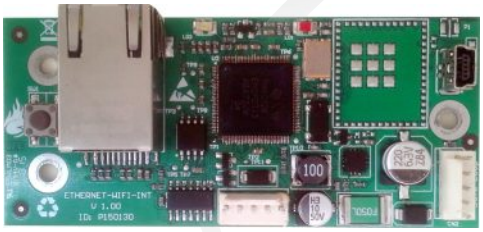
Network and web-server configurations are stored via available USB connector. Drivers, webpage and configuration manual are all available in our website.

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-FO

Fibre Optics Data Loop Interface

The J-NET-INT-FO interface modules allow GFE's range of panels to be interfaced to repeaters and/or sub-panels using Fibre Optic cable using a common data communication loop in a ring topology. These units also use a double-redundant data communication loop for extra security and reliability.

These interfaces can be used in parallel with other similar modules using other interface technologies such as RS485 and TCP/IP, providing the installer with the tools to interface and create a network of panels, repeaters and sub-panels using mixed data communication technologies, catering for the most demanding applications and networking requirements.

Each panel, repeater and sub-panel will require one of these interface modules. The maximum fiber length between panels is 2500m

Fibre Optic cables to be used in conjunction with these modules should be multi-mode 62.5/125um and terminated using the industry standard ST connectors.

Custom made versions of these modules can be produced for connection to GFE's proprietary MPX protocol to connect LEDs, mimic displays, relays and conventional sounder circuits to GFE's extensive range of conventional and analogue addressable panels.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	28 V DC nominal - range 17 to 30 V DC
SUPPLY CURRENT	15 mA
CONNETOR TYPE (FO)	ST Connectors
FIBRE OPTICS CABLE	Multi-mode 62.5 / 125 um
SOFTWARE & HARDWARE COMPATIBILITY	JUNO NET Panel & Repeater - Sub-Panel JUNIOR Panel V 2,3 and 4, Mini-Rep and Junior Repeaters ORION Conventional Panel (version 1.5) and Orion Repeaters
MAX. HUMIDITY	95% RH Non-Condensing
OPERATING TEMPERATURE	-10ºC to 50ºC
DIMENSIONS	135 (L) x 35.6 (W) x 20 (H) mm
WEIGHT	32 g
ORDER CODE	
J-NET-INT-FO	FIBRE OPTICS DATA LOOP INTERFACE

CHAMELEON-485-DTLOOP

RS422/485 DATA LOOP INTERFACE

The CHAMELEON-485-DTLOOP interface allows GFE's range of addressable main panels to be interfaced to Repeaters, boxed Sub-Panels and/or NODES-SP panels using a 4-core data communication cable suitable for RS-485 data transmission using a common data communication loop in a ring topology.

These units can also use a double-redundant data communication loop for extra security and reliability when used in conjunction with a JUNO NET, JUNIOR main panel by creating a bidirectional communication flow. In this case, if the JUNO NET or JUNIOR main panel is unable to communicate with networked panels/repeaters due to a cable cut or short circuit, it will try to establish communication via the 2nd loop. A communication fault will be signalled by the JUNO NET main panel when communication is lost with any networked panel equipped with a loop card. Please note that JUNIOR main panels can only be interfaced with Mini-Repeaters.

This interface is used in the fire alarm control panel to provide a communication for the following:

1) A JUNIOR, analogue addressable panel, and its Mini-Repeater(s)
2) A JUNO NET panel and Juno Net Repeater(s), Mini-Repeater(s), Sub-Panel(s) and NODE-SP(s)

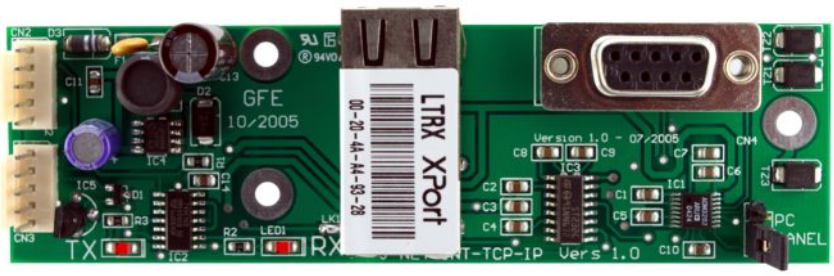
This interface is compatible with the following panels:

1) JUNIOR, 1 & 2 Loop analogue addressable main panel
2) Mini-Repeater (JNR MINI-REP)
3) JUNO NET, expandable analogue addressable main panel
4) Juno Net Repeater (J-NET-REP)
5) NODE-SP's & boxed sub-panels (J-NET-SPX)

This interface can be used with other interface technologies such as Fibre Optics and TCP/IP, providing the installer with the tools to interface and create a network of panels using mixed data communication technologies, catering for the most demanding applications and networking requirements.

Each panel, Repeater, Sub-panels and NODE-SP require one of these interface module. The maximum distance between two interfaces is 1.2 Km including the return path to the main panel.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	28 V DC nominal - range 17 to 30 V DC
SUPPLY CURRENT	14 mA
SOFTWARE & HARDWARE COMPATIBILITY	JUNO NET Panel & Repeater – boxed Sub-Panel & NODE-SP JUNIOR Panel V2, 3 and 4, Mini-Rep and Junior Repeaters
MAX. HUMIDITY	95% RH Non-Condensing
OPERATING TEMPERATURE	-10ºC to 50ºC
DIMENSIONS	90 (W) x 40 (L) x 20 (H) mm
WEIGHT	33 g
ORDER CODE	
CHAMELEON-485-DTLOOP	RS422/485 DATA LOOP INTERFACE



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

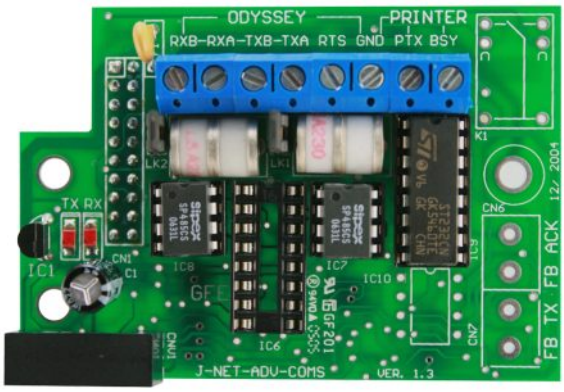
The J-NET-INT-TCP/IP interface is used when connecting any of GFE's range of Fire Detection panels to Repeaters or Sub-Panel, using TCP/IP protocol within a Local Area Network (LAN). Please note that sub-panels can only be interfaced to JUNO NET panels.

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



J-NET-ADV-COMS-485

JUNO NET - ODYSSEY RS232/RS485 Interface

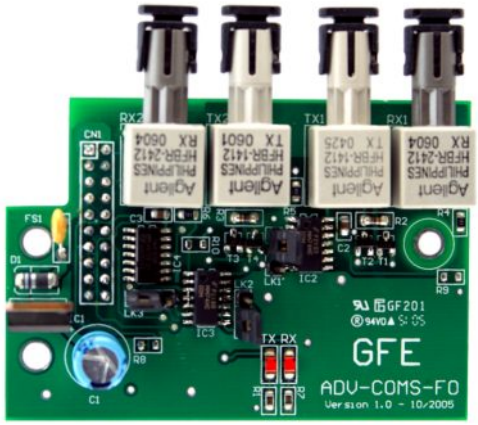
Global Fire Equipment produces a range of interfaces that allow the JUNO NET Analogue Addressable Fire Detection Panel to be interfaced to GFE's graphical monitoring software ODYSSEY.

Four different interfacing technologies are available, namely:

- RS232
- RS485
- Fibre Optics
- TCP/IP

The J-NET-ADV-COMS-485 is used when connecting a JUNO NET Main Panel to GFE's ODYSSEY software, BMS or MODBUS using either RS232 or RS485. This interface is also used when an external serial printer is linked to the panel. In either case the QUART chip has to be fitted on the JUNO NET Main Board.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	28 V DC nominal
SUPPLY CURRENT	14 mA
SOFTWARE & HARDWARE COMPATIBILITY	JUNO NET Main Panel all versions
MAX. HUMIDITY	95% RH Non-Condensing
OPERATING TEMPERATURE	-10ºC to 50ºC
DIMENSIONS	74.3 (L) x 51.1 (W) x 24 (H) mm
WEIGHT	36 g
ORDER CODE	
J-NET-ADV-COMS-485	JUNO NET - ODYSSEY RS485 INTERFACE



J-NET-ADV-COMS-FO

Juno Net - ODYSSEY Fibre Optics Interface

Global Fire Equipment produces a range of interfaces that allow the JUNO NET Analogue Addressable Fire Detection Panel to be interfaced to GFE's graphical monitoring software ODYSSEY.

Four different interfacing technologies are available, namely:

- RS232
- RS485
- Fibre Optics
- TCP/IP

The J-NET-ADV-COMS-FO is used when connecting JUNO NET Main Panels (maximum of 64 panels) to GFE's ODYSSEY software, BMS or MODBUS using a fibre optic link. In this case the QUART chip has to be fitted on the Panel's Main Board. Double channel multi-mode 62.5/125 optical fibre should be used. Fibre terminations used with this type of interface are industry standard ST connectors.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	28 V DC nominal
SUPPLY CURRENT	15 mA
CONNECTOR TYPE (FO)	ST Connectors
FIBRE OPTICS CABLE	Multi-mode 62.5/125 um
SOFTWARE & HARDWARE COMPATIBILITY	JUNO NET Main Panel all versions
MAX. HUMIDITY	95% RH Non-Condensing
OPERATING TEMPERATURE	-10ºC to 50ºC
DIMENSIONS	74.3 (L) x 51.1 (W) x 24 (H) mm
WEIGHT	30 g
ORDER CODE	
J-NET-ADV-COMS-FO	JUNO NET - ODYSSEY FIBRE OPTICS INTERFACE

J-NET-ADV-COMS-TCP/IP

Juno Net - ODYSSEY TCP/IP Interface

Global Fire Equipment produces a range of interfaces that allow the JUNO NET Analogue Addressable Fire Detection Panel to be interfaced to GFE's graphical monitoring software ODYSSEY.

Four different interfacing technologies are available, namely:

- RS232
- RS485
- Fibre Optics
- TCP/IP

The J-NET-ADV-COMS-TCP/IP interface is used when connecting JUNO NET Main Panels (maximum of 64) to GFE's ODYSSEY software, BMS or MODBUS using TCP/IP protocol within a Local Area Network (LAN).

Both 10/100 Mbps speeds are supported by this device and the communication rate is automatically set depending on the type of network to which the device is connected. JUNO NET panels linked to ODYSSEY, BMS or MODBUS, will also need to be equipped with a QUAD-UART chip (J-NET-QUART).

This interface is easily configured using LAN communications with provided software, Internet browser or 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 (Internet Browser, Telnet, Device Installer) Serial Port / Terminal Emulator
MAX. HUMIDITY	95% RH Non-Condensing
OPERATING TEMPERATURE	-10ºC to 50ºC
DIMENSIONS	74.3 (L) x 51.1 (W) x 24 (H) mm
WEIGHT	40 g
ORDER CODE	
J-NET-ADV-COMS-TCP/P	JUNO NET - ODYSSEY TCP/IP INTERFACE

GFE-NET-PRINTER

External Line Thermal Printer

The GFE-NET-PRINTER is an external thermal line printer which is used to obtain a hardcopy of all recorded events from a JUNIOR or JUNO NET panel. The GFE-NET-PRINTER can be connected either via the JUNO NET panel's printer output or alternatively via the data loop using RS232, RS485, Fiber Optics or TCP/IP J-NET-INT interfaces. JUNIOR panels can only be connected via the data loop.

All recorded events are referenced by date and hour and saved in the panel's NVRAM (non-volatile memory).

Note: When connecting GFE-NET-PRINTER to the JUNO NET panel via the panel's printer output, the J-NET QUART chip is required to be inserted in the appropriate IC socket located on the panel's main PCB board. For more details please refer to the panel's installation manual. This type of connection is not available for the JUNIOR panel.

Key Features

- Easy installation and maintenance
- Sleek low-profile housing
- SMD circuit board design. High quality and reliability guaranteed
- Remote installation anywhere across the building

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	20 to 30 V DC
SUPPLY VOLTAGE with PSU 0.5 fitted	230 +10% -15% V AC / 50 Hz
SUPPLY CURRENT	Standby: 43mA max. / Printing: 500 mA max.
INTERFACE RS232	J-NET-ADV-COMMS-485 (1200, 8, N, 1)
DATA LOOP INTERFACES	J-NET-INT-485 or J-NET-INT-FO or J-NET-INT-TCP/IP (38400, 8, E, 1)
CONNECTIONS	5 way molex (flat cable provided)
PAPER	57.5+/-0.5 mm (with) Max. diameter 36 mm (aprox. 12 metres)
MAX. CABLE SIZE	2.5 mm²
MAX. R. HUMIDITY	95% RH Non-Condensing
OPERATING TEMPERATURE	-10ºC to 50ºC
DIMENSIONS	256 (L) x 194 (W) x 75 (H) mm
WEIGHT	633g - 1.0 Kg inc. PSU 0.5
ORDER CODE	
GFE-NET-PRINTER	NETWORK PRINTER WITH PLASTIC ENCLOSURE
PSU 0.5	0.5 AMP POWER SUPPLY - BOARD ONLY

J-NET-IP

Juno Net Internal Printer

This 40 column internally mounted thermal printer provides a hardcopy of the JUNO NET panel log containing all relevant events occurring in the system.

All events are date and time stamped and are backed by a 2000 events deep rolling log kept in the panel's non-volatile memory.

Note: in order for the printer to work properly it is necessary that the J-NET-QUART chip be installed on the JUNO NET Panel Main Board. Please refer to the panel's installation manual for full details.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	5 V DC nominal - Does not require external supply
CURRENT CONSUMPTION	50 mA - standby / 250 mA - printing @ 25oC
INTERFACE	TTL logic levels @ 1200 baud, 8 data bits, 1 stop bit, no parity Hardware handshake - Printer Busy Signal
CONNECTOR TYPE	5-way straight polarised Molex type connector Flat cable assembly provided with mechanism
MAX. HUMIDITY	95% RH Non-Condensing
OPERATING TEMPERATURE	-10ºC to 50ºC
DIMENSIONS	145 (W) x 45 (D) x 65 (H) mm
WEIGHT	121 g Printer Assembly - 208 g inc. paper roll
ORDER CODE	
J-NET-IP	JUNO NET - INTERNAL THERMAL PRINTER - 40 COLUMN

J-NET-QUART

Juno Net QUART

The J-NET-QUART chip should be installed on the JUNO NET Panel Main Board when panel is fitted with an internal and/or external printer and when panel is connected to GFE's graphical software package ODYSSEY, 3rd party BMS systems or MODBUS via one of GFE's J-NET-ADV-COMS interface boards.

ORDER CODE	
J-NET-QUART	JUNO NET QUART IC (QUAD-UART)

DOOR HOLDERS

GFE-DHA-ISOLATOR

Addressable Magnetic Door Holder

The unit is a loop powered addressable magnetic door release. It does not require external supply as it is directly powered from the loop. Activation of the unit is achieved using cause and effect programming as used for I/O units.

If power is removed or communication with the panel is lost, the unit will release automatically after approximately 20 seconds.

A built in loop isolator is provided. When a short condition exists in either side of the loop connections, a Yellow LED will be turned ON. Its operation will be reset after fault condition is removed.

Module is fitted with 3 status leds. The Green LED will flash every time the device is polled by the addressable panel. The Red LED when ON indicates that the door release has been activated. This LED is OFF after panel power up or reset. Finally the Yellow LED will indicate a fault in the module. The activation of the module can be achieved as part of the cause and effect programming of the panel and it operates in the same way as an I/O unit. This unit should normally be assigned to either a specific device or zone. Up to a maximum of 20 of these units can be fitted on a particular loop.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	Loop Powered - 17 V DC to 30 V DC
ADDRESS RANGE	1-125
LOOP CURRENT - QUIESCENT / CHARGING	800 uA (650 uA module + 150 uA isolator) / 7 mA
ISOLATOR - LOOP LINE RESISTANCE	60 mOhms
CHARGE UP TIME / FAIL SAFE RELEASE TIME (1)	25 s / 20 s
MANUAL RELEASE	Push Button - Normally Open
MAX. CABLE SIZE	2.5 mm^2
MAX. HUMIDITY	95% RH Non-Condensing
OPERATING TEMPERATURE	0ºC to 50ºC
MAGNET HOLDING FORCE	200 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-DHA-ISOLATOR	ADDRESSABLE MAGNETIC DOOR HOLDER

1) Fail Safe Release Time is defined as the time taken to release door after removal of loop power or loss of communication with control panel is detected.

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

GFE-BCM-3-IO

Battery Charger Module with Loop Interface

This unit is a fully EN54-4 compliant PSU incorporating a battery charger that can be used with all of GFE's addressable fire detection 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 by Addressable Panel
- Fault Relay Output
- Relay O/P Remotely Controlled by Addressable Panel
- 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
I/O UNIT - LOOP CURRENT	1.7 mA Quiescent - 2.4 mA Fault
FAULT RELAY	Changeover - 30 V DC 1 A Resistive
I/O CONTROLLED RELAY	Changeover - 240 V AC 10 A Resistive
OPERATING TEMPERATURE	-10ºC to 50º
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-I/O (1.7 A)	BATTERY CHARGER MODULE - I/O INCLUDED - 28 V DC 1.7 A PSU - BOXED
GFE-BCM-3-I/O (2.4 A)	BATTERY CHARGER MODULE - I/O INCLUDED - 28 V DC 2.4 A PSU - BOXED

GFE-BCM-5 / GFE-BCM-10 (BOXED)

Battery Charger Module with Input/Output

This unit is a fully EN54-4 compliant PSU incorporating a battery charger that can be used with all of GFE's addressable fire detection 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 Aluminium enclosure, including a 28 V DC @ 5.6 A or 11.7 A PSU.

Key Features

- Battery Charger Monitored by Addressable Panel
- Fault Relay Output
- Relay O/P Remotely Controlled by Addressable Panel
- 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 +10% -15% V AC - Monitored
SUPPLY OUTPUT	5.6 A or 11.7 A @ 28 V DC nominal
BATTERY CHARGER - CURRENT O/P	4 A max.
BATTERY TYPE	Max. 2 x 12 V 12 AH - Lead Acid VRLA
BATTERY FUSE	5 A / 10 A
I/O UNIT - LOOP CURRENT	1.4 mA Quiescent - 1.8 mA Fault
FAULT RELAY	Changeover - 30 V DC 1 A Resistive
I/O CONTROLLED RELAY	Changeover - 240 V AC 10 A Resistive
OPERATING TEMPERATURE	-10ºC to +50ºC
HUMIDITY	Max. 95% no condensation
PROTECTION	IP21
DIMENSIONS	375 (L) x 345 (W) x 139 (H) mm
WEIGHT	3.5 Kg - 11.5 Kg inc 2 x 12 AH Bat. / 4Kg - 12 Kg inc 2 x 12 AH Bat.
ORDER CODE	
GFE-BCM-5-BOXED	BOXED 5 AMP BATTERY CHARGER MODULE WITH I/O
GFE-BCM-10-BOXED	BOXED 10 AMP BATTERY CHARGER MODULE WITH I/O

GFE-BCM-10

Battery Charger Module with Loop Interface

This unit is a fully EN54-4 compliant battery charger which also incorporates, a loop interface that can be used with all of GFE's addressable panels. It will monitor all fault conditions including: charger fault, charger voltage level, input voltage supply fault and supply removal. It is supplied as a standalone module. This unit has a 10 A current rating and is supplied complete with heat dissipation.

Key Features

- Battery Charger Monitored by Addressable Panel
- Fault Relay Output
- Relay O/P Remotely Controlled by Panel
- Low Battery Voltage Shutdown
- Reverse Polarity Protection
- Battery Charger Current Regulated
- LED indicators: AC ON, Battery & Charger Fault
- Fully Compliant with EN54-4

TECHNICAL SPECIFICATIONS	
SUPPLY INPUT	28.5 V DC - Monitored
SUPPLY OUTPUT	10 A max. @ 28 V DC nominal
BATTERY CHARGER - CURRENT O/P	4 A max.
BATTERY TYPE	N/A
BATTERY FUSE	10A
I/O UNIT - LOOP CURRENT	1.7 mA Quiescent - 2.4 mA Fault
FAULT RELAY	Changeover - 30 V DC 1A Resistive
I/O CONTROLLED RELAY	Changeover - 240 V AC 10 A Resistive
OPERATING TEMPERATURE	-10°C to 50°C
HUMIDITY	N/A
PROTECTION	N/A
DIMENSIONS	131 (L) x 81 (W) x 41 (H) mm
WEIGHT	225 g
ORDER CODE	
GFE-BCM-10	BATTERY CHARGER MODULE- INCLUDING CHASSIS

SOFTWARE

ODYSSEY

Graphical Supervision Software

The ODYSSEY Graphics Display and Alarm Management System allows the connection of up to 64 JUNO NET or JUNIOR fire alarm panels to a PC. Each panel can be displayed on the screen as if the operator were standing in front of it and can be fully controlled from the computer.

ODYSSEY is simple to set up and to operate. Programming is password protected. Once in programming mode, each panel in the system can be enabled, and drawings can easily be imported from a graphics program such as Autocad®.

Detectors and Call Points etc. are then added graphically via the built-in interface. There are no complicated tables to set up. Device descriptions are received directly from the JUNO NET or JUNIOR control panels.

In the event of an alarm or fault, the location of the incident will be displayed on the computer screen, with three levels of zoom available to the operator. The individual device can be viewed and interrogated, and if necessary disabled.

A printer can be connected to the computer to record all alarm, fault and programming activities on the system. Whether or not a printer is connected, a log of all events is kept. This log can be periodically downloaded and printed if required. Other utilities are provided, such as a list of emergency phone numbers, and an operator notepad.

If a second computer is required at another location, this can be connected as a slave via an Ethernet network to the main computer. For longer distances, Fibre Optic cabling can be used. TCP/IP communications can also be used to allow remote access. ODYSSEY is available in several language versions.

The only difference between ODYSSEY and ODYSSEY XL is the maximum supported screen resolution. In result ODYSSEY XL has an increased area to place drawings which is specially suitable for horizontal buildings such as factories. It isn't possible to migrate from ODYSSEY to ODYSSEY XL, however the license is compatible with both versions.

TECHNICAL SPECIFICATIONS	ODYSSEY (v.3)	ODYSSEY XL
HARDWARE	Processor 500 MHz (min.)	Processor 2 GHz (min.)
OPERATING SYSTEM	XP, Vista and Windows 7	Windows 7 and above
MEMORY USAGE	RAM: 256 Mb / Hardisc: 10 Mb (approx.)	RAM: 4 Gb / Hardisc: 100 Mb
SUPPORTED SCREEN RESOLUTION	1280x800 (max.)	1280x800 (min); 2084x1274 (max.)
DOWNLOAD LINK	*globalfire.pt/en/dw/Software/ODYSSEY_20*	*globalfire.pt/en/dw/Software/ODYSSEY_20*
ORDER CODE		
ODYSSEY LICENSE	GRAPHICAL SUPERVISION SOFTWARE	

ODYSSEY

Hardware Accessories

RS422/485

Used at the PC to convert RS485 signal levels to RS232 when connecting JUNO NET panels to ODYSSEY using this interconnection technology. The unit is port powered and hence no external power is required.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	12 V DC nominal - Does not require external supply
CURRENT CONSUMPTION	3 mA + transmission load current
COMMUNICATIONS SETTINGS	Half Duplex - 4 wire 9600 baud - 8 data bits - 1 stop bit - no parity
PROTECTION CATEGORY	IP44
CONNECTOR TYPE	RS232 side DB9 Female - RS485 side DB9 Female
MAX. HUMIDITY	95% RH Non-Condensing
OPERATING TEMPERATURE	-10ºC to 50ºC
DIMENSIONS	78 (L) x 43 (W) x 20 (H) mm
WEIGHT	40 g
ORDER CODE	
RS422/485 CONVERTER	RS232 TO RS422/485 CONVERTER - MODEL 4WSD9R

ODYSSEY

Hardware Accessories

FOSTC

Used at the PC to convert Fiber Optic signal levels to RS232 when connecting JUNO NET panels to ODYSSEY using this interconnection technology. The unit requires an external supply of 12 V DC.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	External Supply - 12 V DC
CURRENT CONSUMPTION	140 mA max.
CONNECTOR TYPE (FO)	ST Connectors
FIBRE OPTICS CABLE	Multi-mode 62.5/125 um
COMMUNICATIONS SETTINGS	9600 baud - 8 data bits - 1 stop bit - no parity
PROTECTION CATEGORY	IP44
MAX. HUMIDITY	95% RH Non-Condensing
OPERATING TEMPERATURE	-10ºC to 50ºC
DIMENSIONS	110 (L) x 59 (W) x 25 (H) mm
WEIGHT	70 g
ORDER CODE	
FOSTC	RS232 TO FIBRE OPTICS CONVERTER

GFE CONNECTOR

Configuration Software

www.globalfire.pt/en/pd/Software/Configuration_45/94/GFE-CONNECTOR

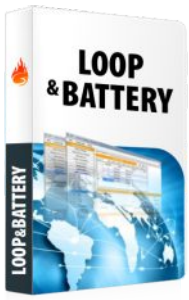
The GFE CONNECTOR configuration software enables the programming of our range of addressable panels. This tool as additional functions such as, online mode that lists the loop populaton of an addressable system, advanced firmware upgrade functions and log file backup.

LOOP & BATTERY

Configuration Software

www.globalfire.pt/en/pd/Software/Configuration_45/91/LOOP-&-BATTERY

As statted by its name, this software makes the calculations of battery requirements according standby and alarm backup time requirements. It also lets you know if the cable lenght and cross-section is adequate to a specific loop population.



VOX LOADER

Configuration Software

www.globalfire.pt/en/pd/Software/Configuration_45/128/VOX-LOADER

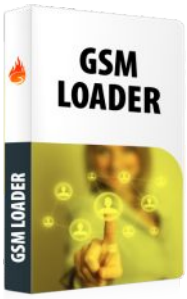
The software VOX LOADER allows the voice message configuration and download to the VOX range of signaling devices. The communication with the device is acomplished via a seamessely USB connection. It will also detect automatically if the connected device is addressale or conventional.

GSM LOADER

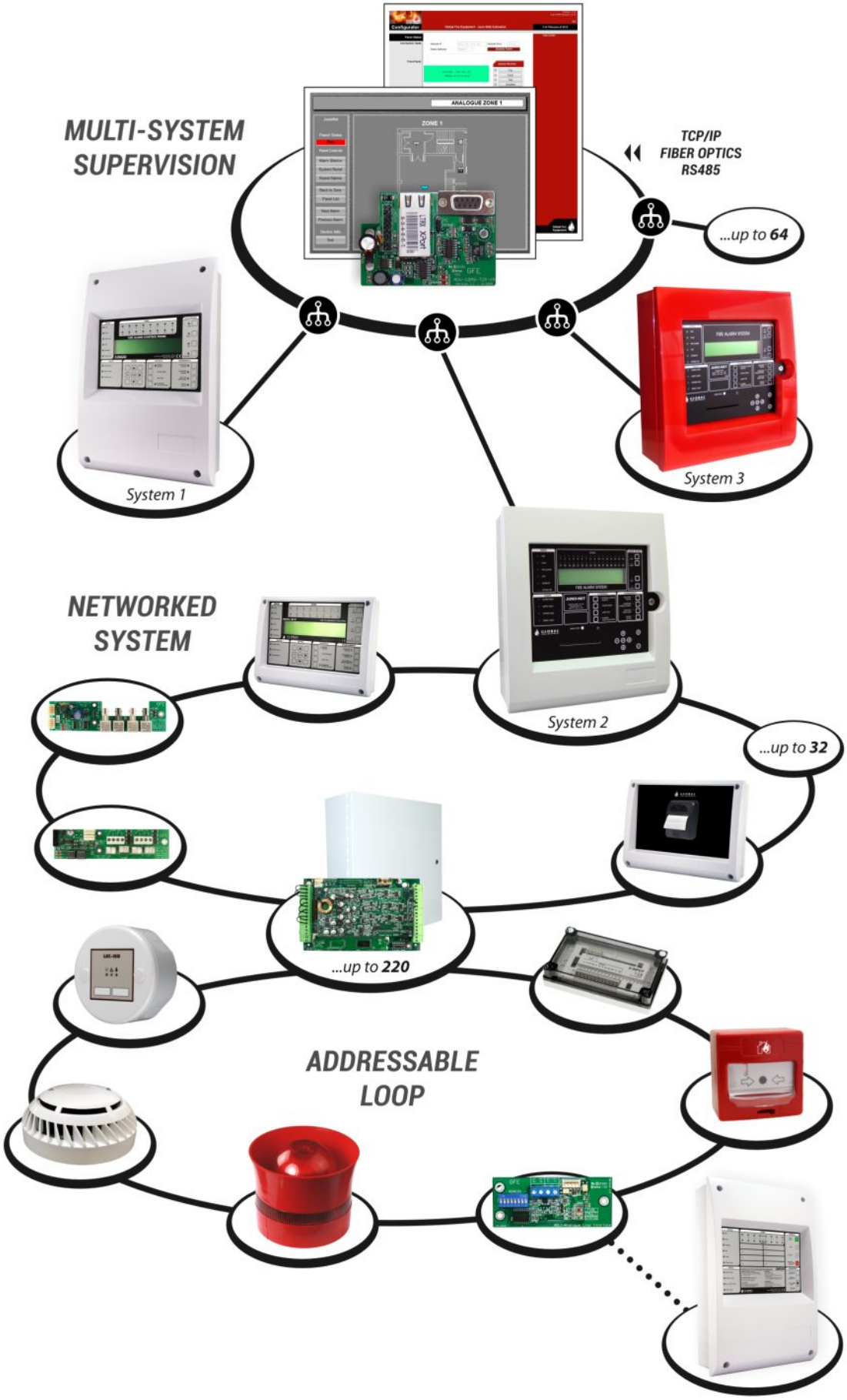
Configuration Software

www.globalfire.pt/en/pd/Software/Configuration_45/157/GSM-LOADER

GSM LOADER software enables GFE-GSM-INT module configuration and download via its USB connection. It's also possible to retrieve module's event log data. A clean user interface requires only a few steps to input all necessary parameters. It can be downloadad directly from our website.



ADDRESSABLE SYSTEM OVERVIEW



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