TEF

GLOBAL
FIRE EQUIPMENT

THE WAY WE LEAD

Building on a long tradition of excellence in the field of Fire Alarm Control Panels, **Global Fire Equipment S.A.**, founded in Denmark by João Paulo Ajami, has experienced a remarkable organic growth both in turnover and customer numbers since 1994 and is now a world player, supplying customers across 75 countries with state of the art equipment, installed in prestige premises ranging from major airports to an Antarctic research base. Based in a modern logistics center in the Algarve region of Portugal, **GFE** designs, manufactures and exports a complete range of Fire Detection Products and puts customer satisfaction at the top of its priorities.

4 PANELS
25 DETECTORS
40 MANUAL CALL POINTS
45 SOUNDERS & BEACONS
66 MODULES
85 INTERFACES
97 DOOR HOLDERS
100 POWER SUPPLY UNITS
105 SOFTWARE
112 ADDRESSABLE SYSTEM OVERVIEW

PANELS

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

ORION

Conventional Fire Detection System

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

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

Operation is extremely intuitive, offering simple control and one-button disablement facilities, as well as the one man test mode which provides simple and efficient testing of the system.

Advanced configuration solutions include the following: a dedicated RS232 communication interface allowing connection of up to 4 remote repeater panels, addressable loop interface modules and multiplexed zonal output relays; giving one of the most highly advanced levels of system integration and compatibility existing on the market at this level.

KEY FEATURES

- 1 to 4 loops panel
- Networkable panel, compatible with OCTO+ and NODE+ range of panels
- Supports connection to Repeaters via RS422, Fibre-Optic or TCP/IP
- 250 devices per loop (125 address limit)
- Up to 95 VULCAN 2 (addressable) ultra low current base sounders (32 address limit)
- 32 individually programmable sounder addresses
- Full Self-Addressable Devices support
- 2 Fire output relays (change-over) and 1 Fault relay (NC - opens on fault)
- 2 conventional alarm outputs (individually programmable)
- Both detection loops monitored for integrity
- 384 fully programmable zones
- 512 fully programmable sounder groups
- 512 I/O groups
- Event log (rolling, 10000 entries)
- Available only with ZEOS protocol
- Compatible with all our own low cost ancillary modules
- Backlit graphical LCD display of 240x64 pixels
- Programming by integrated keypad or Loader PC software
- Multiple language support (menu selectable)
- Integrated 16 zone LED fire zone indication

ORION

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

Key Features

- 2, 4 and 8 Zone non-expandable control panels
- Up to 32 conventional smoke and/or heat detectors per Zone
- Active End of Line monitoring
- Programmable non-latching Zones
- Delay timer programmable on/off per Zone
- Coincidence programmable for adjacent Zones
- One man test
- Supervised auxiliary 24 volt output
- 2 Supervised/ monitored sounder circuits
- 3 Remote inputs used for activation of Class Change, Day/Night mode, and Reset
- 2 Relay outputs fire and fault
- Fully EN54 part 2 and 4 compliant
- Repeater output
- Multiplexed output for LEDs and additional relay outputs per zone (GFE-MPX-REL)
- Multiplexed output for sounders per zone (GFE-MPX-SNDR)
- Addressable Loop Interface card (GFE-ADLI)

TECHNICAL SPECIFICATIONS	
SUPPLY SPECIFICATION	
PRIMARY SUPPLY VOLTAGE - IN	230 +10% -15% V AC
PRIMARY SUPPLY VOLTAGE - OUT	28.5 V DC nominal
PRIMARY SUPPLY CURRENT - OUT	1.7 A @ 28.5 V DC nominal (max.)
SECONDARY SUPPLY VOLTAGE	21.0 min. - 27.2 max. V DC - BAT charger o/p 28 V DC
SECONDARY SUPPLY CURRENT OUTPUT	1.1 Amp Maximum @ 20°C
INTERNAL BATTERY CAPACITY - MAXIMUM	2 x 12V x 7Ah Sealed VRLA Lead Acid Batteries
MAINS FUSE	4 A -250 V Slow Blow - 20 mm
BATTERY FUSE	1.6 Amp - Resettable
DETECTION CIRCUIT SPECIFICATION	
NUMBER OF CIRCUITS	2,4 or 8
ZONE CURRENT - QUIESCENT / ALARM	4 mA / 60 mA - Maximum
MAX. CABLE RESISTANCE / CAPACITANCE	40 Ohms / 0.470 uF
END OF LINE MONITORING	Active EOL - 10uF/50V Bipolar Electrolytic Aluminium Capacitor
BS-5839 DETECTOR REMOVAL COMPLIANT	YES provided diodes are fitted to detector base
DEVICES PER ZONE	32 Maximum - EN54 pt.2
ALARM RESISTANCE VALUE	270 - 1000 Ohms
SOUNDER CIRCUIT SPECIFICATION	
CURRENT OUTPUT	2 outputs w/ 500mA max. current drive per circuit - fully monitored
ALARM VOLTAGE / END OF LINE RESISTOR	27.5 V DC Nominal / 10 K Ohms - 1/4 Watt
AUXILIARY OUTPUTS SPECIFICATION	
AUXILIARY RELAY OUTPUT	1 Fire (COM-NC-NO) - 1 Fault (COM-NC) non-supervised
RELAY CONTACT RATING	50 V DC - 1 Amp resistive loads
REMOTE INPUT SPECIFICATION	
EVACUATION (CC) - DAY/ NIGHT MODE	Non-Latching - Voltage free contact
RESET	Non-Latching - Voltage free contact
MECHANICAL & OPERATING SPEC.	
HUMIDITY	Max 95% RH Non-Condensing
PROTECTION	IP30
OPERATING TEMPERATURE	-10°C to 50°C
WEIGHT	1.7 Kg - 7 Kg (inc. 2 x 7 AH 12 V bat.)
DIMENSIONS	273 (L) x 107 (W) x 404 (H) mm
COLOUR	White or Red
ORDER CODE	
ORION 2 1328-CPR-0224	2 ZONES CONVENTIONAL FIRE DETECTION CONTROL PANEL
ORION 4 1328-CPR-0224	4 ZONES CONVENTIONAL FIRE DETECTION CONTROL PANEL
ORION 8 1328-CPR-0224	8 ZONES CONVENTIONAL FIRE DETECTION CONTROL PANEL

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

ORION MINI-REP

Orion Mini-Repeater Panel

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

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

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

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

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

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

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

GEKKO

Analogue Addressable Control Panel

The GEKKO Fire Alarm Control Panel is the successor of the enormously popular GFE JUNIOR panel.

The GEKKO can have from 1 to 4 addressable loops. It is housed in a functional ABS plastic enclosure, with only two screws
used to close and secure the lid.

The new graphic backlit LCD display can accommodate any type of custom characters or graphic symbols, allowing multi-language support, as well as pictorial and customisable elements.

It can naturally also communicate with our proprietary ODYSSEY Graphics Interface, as well as with third party Building Management Systems through a Modbus output. It is also capable to communicate with a Repeater unit, using any of the
networking interfaces of the CHAMELEON protocol.

Inside the cabinet there is space for installing up to 7 A/H 24 V DC Sealed Lead Acid backup batteries, providing battery supply to the GEKKO and ZEOS associated devices, which boast extremely low current consumption.

The Cause and Effect programming, as well as all customer specific configuration, is introduced in the GEKKO using the
CHAMELEON CONNECTOR software which is then downloaded to the Flash Memory of the unit.

KEY FEATURES

- 1 to 4 loops panel
- Networkable panel, compatible with OCTO+ and NODE+ range of panels
- Supports connection to Repeaters via RS422, Fibre-Optic or TCP/IP
- 250 devices per loop (125 address limit)
- Up to 95 VULCAN 2 (addressable) ultra low current base sounders (32 address limit)
- 32 individually programmable sounder addresses
- Full Self-Addressable Devices support
- 2 Fire output relays (change-over) and 1 Fault relay (NC - opens on fault)
- 2 conventional alarm outputs (individually programmable)
- Both detection loops monitored for integrity
- 384 fully programmable zones
- 512 fully programmable sounder groups
- 512 I/O groups
- Event log (rolling, 10000 entries)
- Available only with ZEOS protocol
- Compatible with all our own low cost ancillary modules

TECHNICAL SPECIFICATIONS	
POWER SUPPLY RATING	90V AC to 220V AC @ 65 W
PRIMARY SUPPLY	28.5V DC @ 2.4 A (Max.)
SECONDARY SUPPLY	21.7V DC to 27.2V DC; BAT charger: 28V DC
BATTERIES (INTERNAL)	2 x 12 V 7 AH
QUIESCENT CURRENT (NO DEVICES)	65 mA (4 Loop)
AUX. POWER OUTPUT	28V DC 300 mA
LOOPS	1 to 4 loops - Max 150 mA per loop
CONVENTIONAL SOUNDER CIRCUITS	2 - 500 mA Max. current drive per circuit - Fully monitored
AUX. RELAYS FIRE	2 rated 2A @ 30V DC resistive / 0.5A @ 120V AC / 0.25A @ 240V AC resistive
AUX. RELAY FAULT	1 rated 2A @ 30V DC resistive / 0.5A @ 120V AC / 0.25A @ 240V AC resistive
OPERATING / STORAGE TEMPERATURE	-10ºC to 50ºC
HUMIDITY	Max. 85% RH Non-Condensing
PROTECTION	Surface Mount: IP30, Recessed Mount: IP65
DIMENSIONS	273 (W) x 404 (H) x 107 (D) mm
WEIGHT	1.6 Kg - 7 Kg
COLOUR	White or Red

ORDER CODE	
GEKKO-1L	1 LOOP - PSU 2.4A
GEKKO-2L	2 LOOP - PSU 2.4A
GEKKO-3L	3 LOOP - PSU 2.4A
GEKKO-4L	4 LOOP - PSU 2.4A

OCTO +

Networkable Fire Detection System

The OCTO+ Fire Alarm Control Panel is built on the pedigree of the worldwide known JUNO NET. Now featuring a fully peer-to-peer, multi-master networking solution. This new "Chameleon Network" solution enables extreme resilience in very large distributed systems.

On a Chameleon Network system, each network NODE+ has, in its internal configuration memory, the whole system information, i.e. in the unlikely event of a communication loss, there is no performance degradation of individual NODE+.

The network layout is usually configured in a closed loop or having physical multi-paths for communications redundancy, which can use either RS422 or Fibre-Optic mediums. It can also use Ethernet interfaces which can use the existing networking infrastructure.

A Chameleon Network can accommodate up to 32 NODE+. Each OCTO+ panel can support from 1 to 4 addressable loops, giving a total of 128 loops in a single system! Naturally, it also supports remote access with our proprietary ODYSSEY Graphics Interface, as well as integration with third party Building Management Systems through a Modbus output.

The graphic backlit LCD display accommodates any type of custom characters or graphic symbols, allowing multi-language support, as well as pictorial and customisable elements.

Housed in an aluminum back box with a reversible plastic lid, it comprises a PSU, a Front End Display for visualisation of the C&I equipment status, a NODE+ unit with the loop card fitted and networking interfaces if necessary. For each 4 loops there is space for installing up to 12 A/H 24V DC Sealed Lead Acid backup batteries, more than enough to provide up to 24 H battery supply to the NODE+ and ZEOS associated devices which boast extremely low current consumption.

Take into account that all networked panels share the complete system knowledge. On a multi OCTO+ networked panels, as far as the network architecture is concerned, if no human-machine Interface is needed at a specific location, instead of using

a complete OCTO+ panel with display built in, a simple NODE+ panel can be used. By having the same 4 Loops available and housed in the same aluminium back box, without the Front End Display built in the lid, the NODE+ offers the possibility to extend the system, keeping the human interface access only available at specific locations.
In addition to this, each NODE+ has provision to communicate with a remote Repeater unit using any of the networking interfaces.

The “Cause and Effect” programming as well as customer specific Configurations, can be uploaded to any OCTO+ panel in the network using the CHAMELEON CONNECTOR software tool. This is done by USB connection. Later the updated panel can broadcast the same configuration to all other Chameleon Network panels.

KEY FEATURES

- **1 to 4 loops panel**
- **Up to 250 devices per loop (125 address limit)**
- **Up to 95 VULCAN 2 (addressable) ultra low current base sounders (32 address limit)**
- **Supports connection to Repeaters via RS422, Fibre-Optic or TCP/IP**
- **Networked system up to 128 loops**
- **Chameleon Peer-to-Peer Advanced Networking Protocol with up to 32 NODE+**
- **32 individually programmable sounder addresses**
- **Support of Non-European languages (Mandarin, Arabic, Hindu, Urdu, Farsi, etc.)**
- **Full Self-Addressable Devices support**
- **Built in Fire & Fault relays**
- **2 conventional alarm outputs (individually programmable)**
- **Detection loops monitored for integrity**
- **384 fully programmable multi loop zones**
- **512 fully programmable sounder groups**
- **512 I/O groups**
- **Event log (rolling, 10000 entries)**
- **Removable Chassis**

TECHNICAL SPECIFICATIONS	
POWER SUPPLY RATING	90V AC to 230V AC @ 65 W
PRIMARY SUPPLY	28.5V DC @ 2.4 A (Max.)
SECONDARY SUPPLY	21.6 Min. - 27.2V DC (Max.) - Battery charger: 27.5V DC
BATTERIES (INTERNAL)	2 x 12V 12 AH (Max.)
QUIESCENT CURRENT (NO DEVICES)	80 mA (4 Loop)

AUX POWER OUTPUT	28V DC 300 mA
LOOPS	1 to 4 loops - Max. 150 mA per loop
CONVENTIONAL SOUNDER CIRCUITS	500 mA Max. current drive for both circuits - Fully monitored
AUX. RELAYS FIRE	2 rated 2A @ 30V DC resistive / 0.5A @ 120V AC resistive/ 0.25A @ 240V AC resistive
AUX. RELAY FAULT	1 rated 2A @ 30V DC resistive / 0.5A @ 120V AC resistive/ 0.25A @ 240V AC resistive
OPERATING / STORAGE TEMPERATURE	-10ºC to 50ºC
HUMIDITY	Max. 85% RH Non-Condensing
PROTECTION	IP30
DIMENSIONS	340 (W) x 370 (H) x 135 (D) mm
WEIGHT	7,5 Kg – 10,5 Kg (inc. 2 x 12 AH 12 V bat.)
COLOUR	White or Red

ORDER CODE	
OCTO+ -1L	1 LOOP - PSU 2.4A
OCTO+ -2L	2 LOOP - PSU 2.4A
OCTO+ -3L	3 LOOP - PSU 2.4A
OCTO+ -4L	4 LOOP - PSU 2.4A

CHAMELEON REP

Chameleon Network Repeater

The CHAMELEON REP is the best solution when you need full control of a networked system.

In a Chameleon Network, the CHAMELEON REPEATER is used as a “System Repeater”. It works as an addressed networked panel (without loops) and has the ability to process and register (Event-log) all “system info”.
For application connections and diagrams, please refer to our Chameleon Network manual available on our website.

The new graphic backlit LCD display can accommodate any type of custom characters or graphic symbols, allowing multi-language support, as well as pictorial and customisable elements.

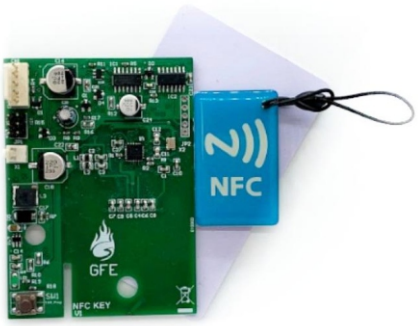
The CHAMELEON REP is supplied without battery management capability. It is intended to be connected to an external power supply.The Cause and Effect programming of the whole system as well as all customer specific configuration can be downloaded or uploaded using the CHAMELEON CONNECTOR software and later broadcast to other networked panels.

MAIN FEATURES

- **Networkable panel, compatible with OCTO+ , NODE+ and GEKKO range of panels**
- **Supports other panels connections via RS422, Fibre-Optic or TCP/IP**
- **Event log (rolling, 10000 entries)**
- **Backlit graphical LCD display of 240x64 pixels**
- **Programming by integrated keypad or Loader PC software**
- **Multiple language support (menu selectable)**

TECHNICAL SPECIFICATIONS	
PRIMARY SUPPLY	28.5V DC nominal (Max.)
QUIESCENT CURRENT	65 mA
OPERATING / STORAGE TEMPERATURE	-10ºC to 50ºC
HUMIDITY	Max. 85% RH Non-Condensing
PROTECTION	Surface Mount: IP30, Recessed Mount: IP65
DIMENSIONS	340 (W) x 370 (H) x 125 (D) mm
WEIGHT	760 g
COLOUR	White or Red

ORDER CODE	
CHAMELEON REP	NETWORK SYSTEM REPEATER



NFC-KEY

Contactless User Acces

The new GFE-NFC-KEY is an easy and fast way to gaincontrol of the panel via theNFC Touchwith accesscard or optionally key fob/tag. The NFC Key is a safe andconvenient way to access your Chameleon fire alarmcontrol panel without the need of entering the password.

By means of NFC Interface it is possible to executea pre-programmed function on any of GFE addressablefire alarm control panels without needing an introduction ofthe access codes. The configurable panel remote inputoptions are:

- Evacuation
- Disable selected detectors
- User access
- Reset
- Disable

MAIN FEATURES

- Up to 5 independent access Cards/fobs
- Programmable functions via control panel
- Contactless access
- Small and compact
- Individual access authorization
- Ideal for “first responders” such as Fire Fightersaccess.

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	20 - 30 VDC
SUPPLY CURRENT	Standby (3,9mA) - Card/TAG detection (8mA)
CONNECTIONS	5 Way molex / 2 Way plug for Panel Remote Input
COMPATIBILITY	OCTO+, GEKKO, G-One and NODE+
ENCODE / NFC	MIFARE RFID 13,56 MHZ
CARD OPERATING	0ºC to 50ºC
TEMPERATURE	

ORDER CODE	
CHAMELEON REP	NETWORK SYSTEM REPEATER

EN54-21 FIRE ALARM TRANSMITTER

EN54-21 Alarm Transmitter

Contactless User Acces

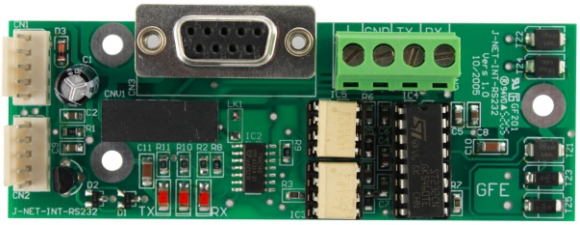
MX03-D-TEF-EN54-LAN (Dual path)The MX03 Fire is an EN54 dual or single path alarm overdrgaer.The alarm dialer is always equipped with 2 e-SIM connection paths. In addition, the Dual-path features a LAN connection so you fully meet all Dual-path requirements.The remote management is easily done via the available portal.

- Evacuation
- Disable selected detectors
- User access
- Reset
- Disable

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	20 - 30 VDC
CURRENT (Standby/Alarm)	Standby (60mA) - Alarm (200mA)
MOB FREQUENCY	LTE CAT-M1 700/850/1700/1900/2100 Mhz
COMPATIBILITY	OCTO+, GEKKO, G-One and NODE+
ESPA INPUT	RS232 TEF-SIA-Protocol
SIZE	63x90x32mm
TEMP/HUMIDITY	0ºC to 50ºC max. 85%

ORDER CODE	
MX03-D-TEF-EN54-LAN	EN54-21 DUAL PATH ALARM TRANSMITTER

INTERFACES



INT-RS232

RS232 COMMUNICATION INTERFACE FOR CHAMELEON NETWORK PANELS

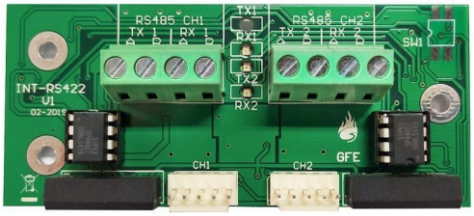
The **INT-RS232**interface offers a serial communicationsolution for the integration of GFE´s intelligent fire alarm control panels and BMS connection. Serial communication over ESPA, MODBUS and ODYSSEY XLP protocols.

KEY FEATURES

- Full electrical Isolation
- MODBUS compatible
- ESPA 4.4.4 compatible
- ODYSSEY XLP compatible
- 100m maximum distance

TECHNICAL SPECIFICATIONS	
POWER SUPPLY RATING	28V DC
SUPPLY CURRENT	5 mA
COMPATIBLE PANELS	OCTO+ / GEKKO / G-One / NODE+
MAXIMUM CABLE DISTANCE	100m per connection
OPERATING / STORAGE TEMPERATURE	-10ºC to 50ºC
HUMIDITY	Max 95% RH Non-Condensing
DIMENSIONS	100.3 (L) x 35 (W) x 18 (H) mm
WEIGHT	20 g

ORDER CODE	
INT-RS232	COMMUNICATION INTERFACE Rs232



INT-RS422-P2P-D/S

RS422 INTERFACE FOR CHAMELEON NETWORK PANELS

The**INT-RS422-P2P-D**interface allows a double peer-to-peerRS422 connection, making it possible to build a closed loop, “daisy-chained” communication network between GFE's CHAMELEON Panels (G-One, GEKKO, OCTO+, NODE+ and CHAMELEON REPEATER).

The**INT-RS422-P2P-S**interface allows one single RS422connection. Mainly used for integration to 3rd party BMS systems or for a single extension connection to a CHAMELEON Display.

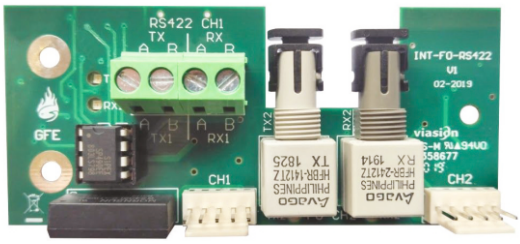
For more detailed information, such as commissioning, network topology options and installation troubleshooting, please refer to the**CHAMELEON Network manual**or contactour Technical Support team.

KEY FEATURES

- Full electrical Isolation between connections
- Independent network paths
- Compatible only with GFE CHAMELEON Panels
- 1200m maximum cable length per interface.

TECHNICAL SPECIFICATIONS	
POWER SUPPLY RATING	24VDC (17V to 30V) 14 mA
SUPPLY CURRENT	Category 5 cable as defined by the EIA/TIA/ANSI 568 specification (<17 pF/ft
RECOMMENDED CABLE	@ 100 ohm) 1200m per connection
MAXIMUM CABLE DISTANCE	-10ºC to 50ºC
OPERATING / STORAGE	Max 85% RH Non-Condensing IP30
TEMPERATURE HUMIDITY	90 (L) x 40 (H) x 20 (W) mm
PROTECTION DIMENSIONS WEIGHT	33 g
COMPATIBILITY	All CHAMELEON Panels (G-One, GEKKO, OCTO+, NODE+, CHAMELEON REP)
-	

ORDER CODE	
INT-RS422-P2P-S or D	COMMUNICATION INTERFACE RS422 Single or Double Network



INT-MIX-FO/RS422-P2P

Mixed RS422 and Fiber Optic Interfaces (for CHAMELEON network)

The **INT-MIX-FO/RS422-P2P** interface allows to mix both Fiber Optic (FO) and RS422 in the same installation. Making it possible to build a closed loop, “daisy-chained” communication network between GFE's **CHAMELEON Panels** (GEKKO, OCTO+, NODE+ and CHAMELEON REPEATER).

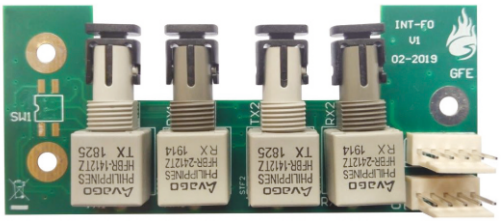
For more detailed information, such as commissioning, network topology options and installation troubleshooting, please refer to the **CHAMELEON Network manual** or contact our Technical Support team.

KEY FEATURES

- **Full electrical Isolation between connections**
- **Compatible with GFE CHAMELEON Panels**
- **1200m maximum cable length for RS422**
- **2500m maximum cable length for Fiber Optic.**

TECHNICAL SPECIFICATIONS	
POWER SUPPLY	24V DC (17V to 30V DC)
SUPPLY CURRENT	15 mA
RECOMMENDED CABLE RS422	CAT5E (<17 pF/ft @ 100 ohm)
MAXIMUM CABLE DISTANCE (Rs422)	1200m per connection
RECOM. CABLE/CONNECTOR (FO)	Multi-mode 62.5/125 µm with ST Connector
MAXIMUM CABLE DISTANCE (FO)	2500m per connection
OPERATING/ STORAGE TEMPERATURE	-10ºC to 50ºC
HUMIDITY	Max 85% RH Non-Condensing
PROTECTION	IP30
DIMENSIONS	90 (L) x 40 (H) x 20 (W) mm
WEIGHT	33 g
COMPATIBILITY	CHAMELEON Panels (GEKKO, OCTO+, NODE+, CHAMELEON-REP)

ORDER CODE	
INT-FO/RS422-P2P-S	COMMUNICATION INTERFACE Network



INT-FO-P2P-D/S

Fiber Optic Interfaces
(for CHAMELEON network)

The **INT-FO-P2P-D** interface allows double peer-to-peer Fiber Optic connection, making possible to build a closed loop, “daisy-chained” communication network between GFE's CHAMELEON Panels (GEKKO, OCTO+, NODE+ and CHAMELEON REPEATER).

The **INT-FO-P2P-S** interface allows one single Fiber Optic connection. Mainly used for integration to 3rd party BMS systems or for a single extension connection to a CHAMELEON Display.

For more detailed information, such as commissioning, network topology 1 options and installation troubleshooting, please refer to the **CHAMELEON Network manual** or contact our Technical Support team.

KEY FEATURES

- **Full electrical Isolation between connections**
- **ndependent network paths**
- **Compatible only with GFE CHAMELEON Panels**
- **2500m maximum cable length between interfaces.**

TECHNICAL SPECIFICATIONS	
POWER SUPPLY RATING	24V DC (17V to 30V DC)
SUPPLY CURRENT	15 mA
RECOMMENDED CABLE / CONNECTOR	Multi-mode 62.5/125 µm with ST Connector
MAXIMUM CABLE DISTANCE	2500m per connection
OPERATING/ STORAGE TEMPERATURE	-10ºC to 50ºC
PROTECTION HUMIDITY	IP30 Max 85% RH Non-Condensing
DIMENSIONS	90 (L) x 40 (H) x 20 (W) mm
COMPATIBILITY	All CHAMELEON Panels (GEKKO, OCTO+, NODE+,
WEIGHT	33 g
ORDER CODE	
INT-FO-P2P-D/S	COMMUNICATION INTERFACE Network

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
- Programmable LED ouput
- 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-SHI	1328-CPR-0492	ANALOGUE ADDRESSABLE COMBINED SMOKE & HEAT DETECTOR WITH ISOLATOR

ZEOS BASE

Standard Detector Base

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

Deep Detector Base

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

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

GFE-BASE

ZEOS detector base w/ buzzer or relay

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

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

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

GFE-REM-IND-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

GFE-REM-IND-C

Conventional Flashing Remote Indicator

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

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

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

UG-4

Duct Smoke Sampling System

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

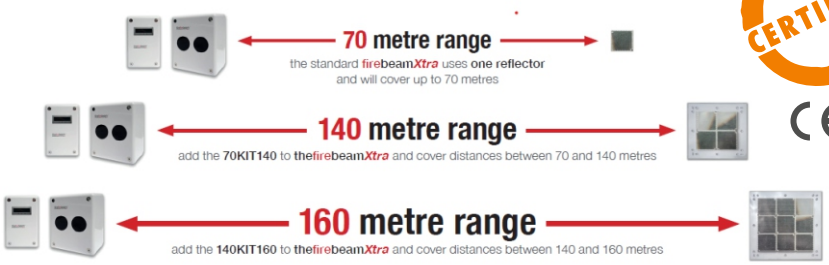
Based in Venturi effect, air sampling it's naturally aspirated because of aerodynamic shape of sampling tube. The venturi tube conducts the air from the duct to the detector housing, which is fitted to the outside of the duct, where a smoke detector detects potential fire particles in the air.

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

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

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

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



FIRE BEAM Blue/Xtra

Reflective Optical Beam Smoke Detector

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

Key Features

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

TECHNICAL SPECIFICATIONS	
ELECTRICAL	
SUPPLY VOLTAGE	10.2 to 40V DC
SUPPLY CURRENT	3 mA (quiescent; alarm; fault)
STATUS INDICATORS	
NORMAL	Green LED's Flashing / Controller Message
FAULT	Yellow LED's Flashing / Change over relay (2A@30VDC)/ Controller Message
ALARM	Red LED's Flashing / Change over relay (2A@30VDC)/ Controller Message
ENVIRONMENTAL	
TEMPERATURE	-10°C to +55°C
HUMIDITY	10 to 95% RH Non-condensing
IP RATING	IP65 when suitably mounted and terminated
MECHANICAL	
BEAM HEAD 7-70M	180 (H) x 155 (W) x 137 (D) mm / Weight 1.1 Kg
CONTROLLER	185 (H) x 120 (W) x 62 (D) mm / Weight 0.55 Kg
70KIT140 MID-RANGE REFLECTOR	293 (H) x 293 (W) x 5 (D) mm / Weight 0.8 Kg
140KIT160 LONG RANGE REFLECTOR	394 (H) x 394 (W) x 5 (D) mm / Weight 1.8 Kg
ADAPTER	270 (H) x 250 (W) x 5 (D) mm / Weight 0.6 Kg (mounts the Beam Head onto unistrut)
ORDER CODE	
FIRE BEAM-BLUE/XTRA	BASIC FIRE BEAM INCL. CONTROLLER + 1 REFLECTOR COVERS DISTANCE OF 5-40 METERS
40KIT80	MID RANGE EXTENSION KIT 40-80 M
80KIT100	LONG RANGE EXTENSION KIT 80-100 M
ADAPTER	HEAD INTERFACE ADAPTER TO MOUNT TO UNISTRUT
ANTI-FOG FIRE BEAM	ANTI FOG FIRE BEAM
40KIT80-AF	ANTI FOG MID RANGE EXTENSION KIT 40-80 M
80KIT100-AF	ANTI FOG LONG RANGE EXTENSION KIT 80-100 M
WINDOW-AF	ANTI FOG WINDOW
REF-AF	SINGLE ANTI FOG REFLECTOR
FOGKIT	ANTI FOG WINDOW FOR HEAD AND SINGLE ANTI FOG REFLECTOR

MANUAL CALL POINTS

GFE-MCPE-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		3.1 mA - 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 GFE-MCPE-AI
COLOUR / CASE MATERIAL		Red / ABS & Clear/ PC - Flame Retardant 94 V0
PROTECTION		IP24D
OPERATING TEMPERATURE		-10°C to 55°C
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

VALKYRIE ASI

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		
ALKYRIE ASI	1328-CPR-0286	ADDRESSABLE WALL SOUNDER WITH ISOLATOR
VALKYRIE ASBI	1328-CPR-0286	ADDRESSABLE WALL SOUNDER/ BEACON WITH ISOLATOR

VALKYRIE ASI 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		-25ºC to 70ºC
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 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 CB

Conventional Beacon

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

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

VALKYRIE 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

VALKYRIE CB IP65

Conventional Wall Mounted Beacon Outdoor Use-IP65

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

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

VULCAN 2 A(SB)I

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 ASI	1328-CPR-0288	ADDRESSABLE BASE SOUNDER WITH ISOLATOR
VULCAN 2 ABI	1328-CPR-0288	ADDRESSABLE BASE BEACON WITH ISOLATOR
VULCAN 2 ASBI	1328-CPR-0288	ADDRESSABLE BASE SOUNDER WITH BEACON WITH ISOLATOR
VULCAN 2 L		OPAQUE LID FOR VULCAN 2
VULCAN 2 LT		TRANSPARENT LID FOR VULCAN 2

MODULES

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

QUAD ZMU

Addressable QUAD Zone Monitoring Unit

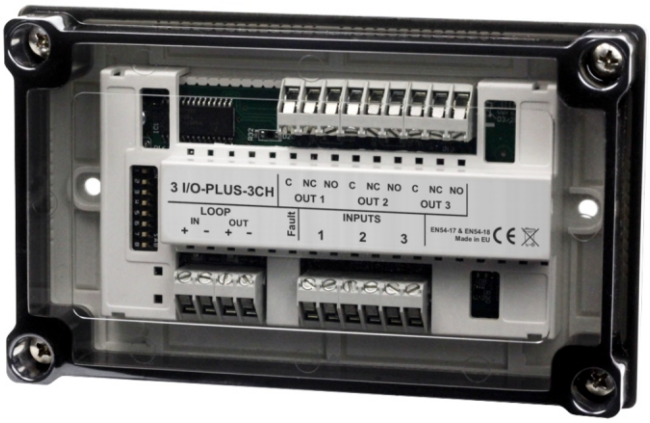
The QUAD-ZMU is a fully monitored interface module which is used to connect up to four individually addressed zones of current-limited conventional detection devices to the Global Fire Addressable control panel via the detection loop.

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		-10ºC to 50ºC
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



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	-10ºC to 50ºC
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

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

GFE-MULTI-IO

Addressable QUAD Zone Monitoring Unit / Triple Sounder / System Relays

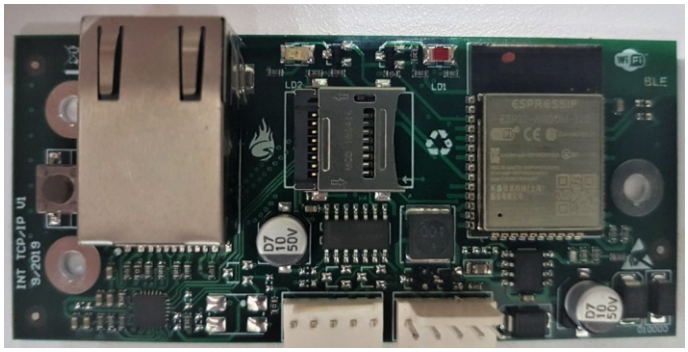
The The MULTI-IO is a fully monitored addressable modulewhich can be used with Global Fire Addressable firealarm control panels. The module provides four Zone Monitor Units, threeSounder Units and two system auxiliary Relays. The module requires an external 24V DC power supply.A Dedicated green LED indicates if a power supplyis present. The module has selectable Active or Resistive Endof Line Monitoring for the Zone Monitor Units. Thestatus of each zone is indicated by two LEDs. A Red LED signals Fire, Yellow indicatesFault on that zone.

KEY FEATURES

*** Loop monitored for Open Circuits / Short Circuits**
*** Maximum 32 devices per Zone**
*** 1A Maximum combined current drive for S1, S2 and S3**
*** Powered from 24V external supply**
*** Four consecutive addresses selection (Zone MonitorUnits)**
*** Seven consecutive addresses selection (Four Zone MonitorUnits + Three Sounder Units)**
*** Active or Resistive end online.**

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE	20V to 30V DC (External Supply)
SUPPLY CURRENT @24V DC	Active EOL: 9.7 mA Quiescent - per zone OC / SC /ALARM -7 / 33 / 23 mA - per sounder OC / SC / ACTIVE - 0 / 1 / 9 mA - per relay Active - 6 mA Resistive EOL: 27 mA Quiescent - per zone OC / SC/ ALARM - 0 / 31.5 / 9 mA - per sounder OC / SC / ACTIVE - 0 / 1 / 9 mA - per relay Active - 6 mA
SOUNDER MAXIMUM CURRENT	1A Maximum current drive for S1, S2 and S3
DEVICES PER ZONE	32
MAX. CABLE SIZE	2.5 mm^2
CASE COLOUR / CASE MATERIAL	White & Transparent / ABS & PC
IP RATING	IP50
OPER. TEMPERATURE	-10ºC to 50ºC
MAX. HUMIDITY	95% RH Non-Condensing
DIMENSIONS	150 (W) x 90 (L) x 32 (H) mm
WEIGHT	210 g - boxed
ZONE END OF LINE CAPACITOR / RESISTOR	10uF 50V Bipolar Electrolytic / 4K7 Ohm ¼ W
SOUNDER END OF LINE	10K Ohm
RELAYS SPECIFICATIONS	2A 30V DC / 0.5A 125V AC
RELAY 1 FUNCTION (REL 1)	Active with any zone with alarm condition (zones “OR”function)
RELAY 2 FUNCTION (REL 2)	Panel Reset Signal (Active for 10s after a panel reset)
ORDER CODE	
GFE-MULTI-IO 1328-CPR-0576	IO MODULE

INTERFACES



INT-TCP/IP-WEB

REMOTE ACCESS TCP/IP INTERFACE

The *INT-TCP/IP-WEB* is an interface adding new advanced features and functionalities to GEKKO, and OCTO+ panels. Its enhanced hardware allows for an easier integration with existing LANs via WiFi or optional Ethernet cable. An SD Card socket permits the interface to hold and store valuable data or simple firmware upgrades when needed.

Now using our proprietary protocol for communication and an external internet server, it is possible to receive "Live" events and monitor the connected panels 24/7. With the new added features and an user friendly dedicated webpage via internet browser, controlling and viewing panel status provides a new level of customer experience.

Network and server parameters are defined through a newly configuration web page via interfaces built in WiFi hardware.

KEY FEATURES

- Ethernet RJ45, WiFi 2,4GHZ
- 24/7 panel monitoring
- Firmware updates via Wi-Fi

TECHNICAL SPECFICATIONS	
SUPPLY VOLTAGE	20 a 30 V DC
SUPPLY CURRENT	28 mA
CONFIGURATION	Remotely via Wifi, web page
COMMUNICATION CONNECTOR	Ethernet RJ45, WiFi 2,4GHZ, BLE (Bluetooth Low Energy)
INPUT	Restart
OPERATING TEMPERATURE	-10ºC a 50ºC
DIMENSIONS	90 © x 40 (A) mm
WEIGHT	24 g
COMPATIBILITY	*Windows XP/7/8/10, MacOS, Linux, Android, IOS*

ORDER CODE	
INT-TCP/IP-WEB	REMOTE ACCESS TCP/IP INTERFACE

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.

GFE-DHC

Conventional Magnetic Door Retainer

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

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

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

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

POWER SUPPLY UNITS

ORION-BCM

Battery/charger module w/integrated sounder circuit

The ORION-BCM is a Self Contained EN54-4 certified Battery Charger Module with a Conventional Sounder Circuit and internal Alarm and Fault relays.

An internal monitoring system continuously checks all circuits, ensuring fault detection and notification, listed below.

- Sounder Circuit Integrity Fault
- Battery Charger Fault (voltage level and charging behaviour)
- Mains Fault (voltage level) and Earth Fault
- Output Supply Voltage Level
- General System Fault (by the means of independent watchdog system).

MAIN FEATURES

- Two inputs for fire relay and sounders direct activation
- One supervised Conventional Sounder Circuit
- Dedicated battery charger (Secondary Supply) for Sounder Circuit and Auxiliary Power
- Two relays output for Fault (NC) and Fire (SPDT) signal - unmonitored
- Supervised 24V Supply Output with 900 mA capability
- EN54-4 certified.

TECHNICAL SPECIFICATIONS

POWER SUPPLY	
MAINS SUPPLY VOLTAGE	230 +10% -15% V AC
INTERNAL POWER SUPPLY	Min. 21V DC - Max. 30V DC (28.5V DC nominal) Max. Ripple 1 Vpp
TOTAL OUTPUT CURRENT	1,7A @ 230V AC
SUPPLY AND BATTERY CHARGER MONITORED	Yes
MONITORED BATTERIES	Yes
BATTERIES MAX. INTERNAL RESISTANCE	1 Ohm
MAX BATTERY SIZE	2 x 12 V 7AH VRLA - Sealed Lead Acid Batteries Min. Voltage 21,0V DC (Vb min) - Max. Voltage 27,2V DC
MAINS FUSE	4 A - 250V Slow Blow - 20 mm
BATTERY FUSE	1.6 Amp Resettable - Electronic Fuse
MAX CURRENT DRAW FROM BATTERY (MAINS FAIL)	1.5 Amp Max. @ Max. Operating Temperature
SOUNDER CIRCUIT	
NUMBER OF CIRCUITS	1
END OF LINE RESISTOR VALUE	10K Ohms
MONITORING	Open and Short Circuit
ALARM VOLTAGE	27.5 V DC
SOUNDER CIRCUIT FUSE	1.1 Amp resettable (Electronic Fuse)
MAX. CURRENT AVAILABLE	900mA @ 27.5V DC Nominal
AUXILIARY OUTPUTS	
DC POWER OUTPUT	27.5 V DC Nominal - Max. Current Drawn 900 mA
FIRE RELAY	Active in Fire condition, 2A @ 30V DC resistive / 0.25A @ 230V AC resistive; SPDT
FAULT RELAY	Active in Fault condition, 2A @ 30V DC resistive / 0.25A @ 230V AC resistive; NC
DIMENSIONS	
SIZE	273 (L) x 107 (W) x 404 (H) mm
WEIGHT	1,7 Kg / 7 kg (inc. 2 x 7 AH 12 V batteries)
OPERATING TEMPERATURE	-10 to +50ºC
MAX RELATIVE HUMIDITY	95% non condensing

ORDER CODE		
ORION-BCM	**1328-CPR-0537**	BATTERY/CHARGER MODULE w/INTEGRATED SOUNDER CIRCUIT

ORION-BCM-LSC

Addressable battery/charger module w/integrated loop sounder circuit (LSC)

The ORION-BCM LSC is a self contained EN54-4 Battery Charger Module with an integrated Loop Sounder Circuit that is controlled and monitored through GFE addressable loop. It also incorporates internal Alarm and Fault relays.

When connected to the analogue detection loop of any of GFE's analogue addressable panels, the ORION-BCM LSC occupies two consecutive addresses in the loop. In addition to the PSU output for powering external devices, it also includes a Conventional Sounder output, which substantially increases its scope of usage. Activation of sounder output can be achieved either by addressable system cause-effect programming as a normal addressable sounder or directly at the ORION-BCM (access code required).

An internal monitoring system continuously checks all circuits, ensuring fault detection and notification, listed below. In addition to local notification, status is also reported to addressable system.

- Sounder Circuit Integrity Fault
- Battery Charger Fault (voltage level and charging behaviour)
- Mains Fault (voltage level) and Earth Fault
- Output Supply Voltage Level
- Communications Fault (On the Addressable Panel)
- General System Fault (by the means of independent watchdog system).

MAIN FEATURES

- Voltage-free dedicated inputs to activate built-in Relay for controlling Door Holders and Sounder Circuit
- One supervised Conventional Sounder Circuit
- Dedicated battery charger (Secondary Supply) for Sounder Circuit and Auxiliary Power
- Addressable Loop Interface with fault report feedback (supervision) and sounder activation acknowledgement /control
- Two relays output for Fault (NC) and Fire (SPDT) signal - unmonitored
- Supervised 24V Supply Output with 900mA
- EN54-4 Approved.

TECHNICAL SPECIFICATIONS

POWER SUPPLY	
MAINS SUPPLY VOLTAGE	230 +10% -15% V AC
INTERNAL POWER SUPPLY	Min. 21V DC - Max. 30V DC (28.5V DC nominal) Max. Ripple 1 Vpp
TOTAL OUTPUT CURRENT	1,7A @ 230V AC
MONITORED SUPPLY & BATTERY CHARGER	Yes
MONITORED BATTERIES	Yes
BATTERIES MAX. INTERNAL RESISTANCE	1 Ohm
MAX BATTERY SIZE	2 x 12V 7AH VRLA - Sealed Lead Acid Batteries Min. Voltage 21,0V DC (Vb min) - Max. Voltage 27,2V DC
MAINS FUSE	4 A - 250V Slow Blow - 20 mm
BATTERY FUSE	1.6 Amp Resettable - Electronic Fuse
MAX CURRENT DRAW FROM BATTERY (MAINS FAILURE)	1.5 Amp Max. @ Max. Operating Temperature
SOUNDER CIRCUIT	
NUMBER OF CIRCUITS	1
END OF LINE RESISTOR VALUE	10K Ohms
MONITORING	Open and Short Circuit
ALARM VOLTAGE	27.5V DC
SOUNDER CIRCUIT FUSE	1.1 Amp resettable (Electronic Fuse)
MAX. CURRENT AVAILABLE	900 mA @ 27.5V DC Nominal
AUXILIARY OUTPUTS	
DC POWER OUTPUT	27.5V DC Nominal - Max. Current Drawn 900 mA
FIRE RELAY	Active in Fire condition, 2A @ 30V DC resistive / 0.25A @ 230V AC resistive; SPDT
FAULT RELAY	Active in Fault condition, 2A @ 30V DC resistive / 0.25A @ 230V AC resistive; NC
DIMENSIONS	
SIZE	273 (L) x 107 (W) x 404 (H) mm
WEIGHT	1,7 Kg / 7 kg (inc. 2 x 7 AH 12 V batteries)
OPERATING TEMPERATURE	-10 to +50ºC
MAX RELATIVE HUMIDITY	95% non condensing
ADDRESSABLE LOOP INTERFACE	
SUPPLY VOLTAGE	17 V to 30V DC
SUPPLY CURRENT	1.2 mA Quiescent - 3 mA Alarm or Fault

ORDER CODE		
ADLI-BCM LSC	ADDRESSABLE MODULE w/INTEGRATED LOOP SOUNDER CIRCUIT (LSC)	
ORION-BCM	**1328-CPR-0537**	BATTERY/CHARGER MODULE w/INTEGRATED SOUNDER CIRCUIT

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

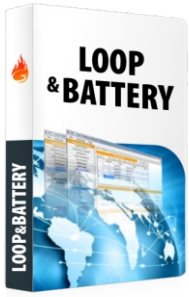
GFE CHAMELEON CONNECTOR

Configuration Software

The GFE CHAMELEON 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



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.

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MANUFACTURERS OF FIRE DETECTION EQUIPMENT

ISO 9001