GLOBAL FIRE EQUIPMENT

Driven by Innovation

Fire Safety Equipment

UK PRODUCT CATALOGUE

ISSUE 1

GSS GROUP

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Built on Innovation

GFE (UK) Fire Ltd, trading as Global Fire Equipment UK, was established in January 2021.

Gaining full backing from Global Fire Equipment's headquarters in Portugal, our company was set up to become the sole importer of all Global Fire Equipment products into the UK fire safety sector. GFE UK aims to provide innovative solutions with the goal of being seen as the system provider of choice.

The UK's fire safety market is one of diverse and ever-changing requirements. We have set our sights on growing the GFE UK brand through the promotion of GFE's evolving product portfolio, and through the excellent relationships we have established with a select group of direct customers.

We are committed to delivering the highest standards of customer service and support.

Working with our authorised key distributors, system installation partners and end users, we provide and deliver high quality and competitively priced systems and solutions to our UK customers.

Keep up to date with GFE UK by following us on:

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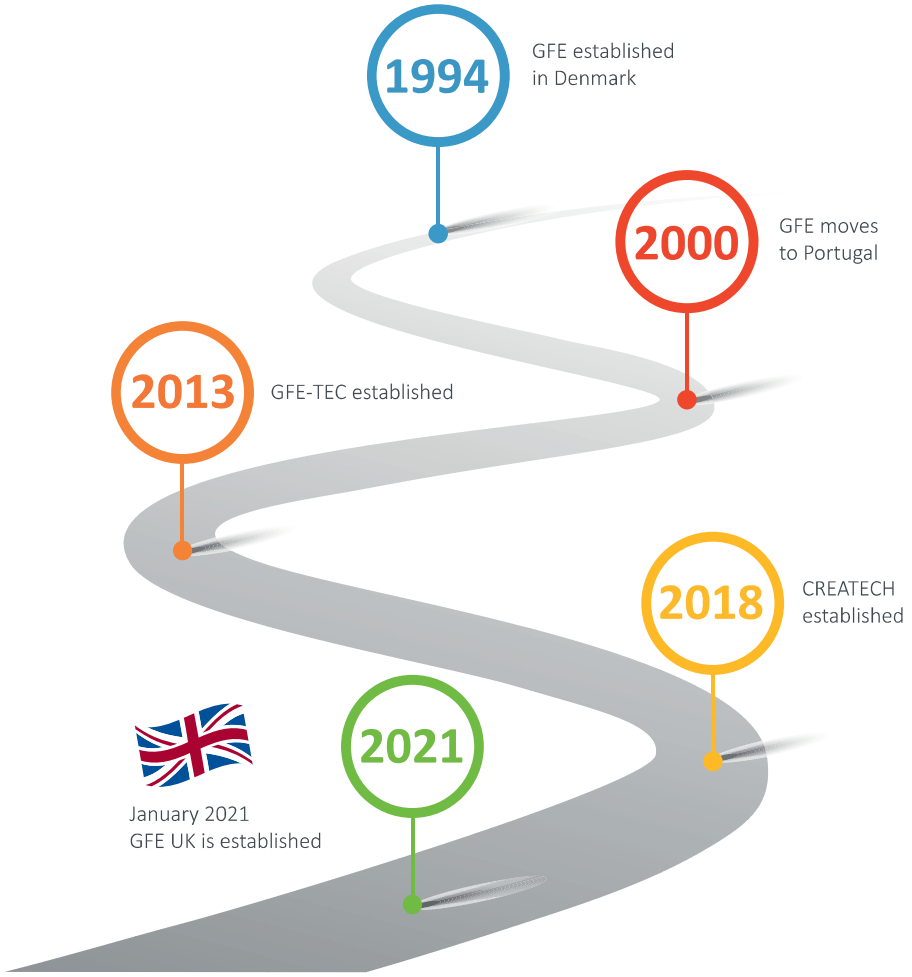
A 'Global' Journey



CHAMELEON

Analogue Addressable Panels

The CHAMELEON range is the next generation of analogue addressable control panels.

The high resolution, high contrast backlit blue graphical LCD display provides a clear and effective user interface which can accommodate any type of custom characters or graphical symbols, allowing multiple language support as well as pictorial and customisable elements.

Designed with high quality and flexibility in mind, the CHAMELEON range combines sophisticated design and powerful features with easy installation, making it an ideal and cost-effective solution for a wide range of applications.

A distributed intelligence network provides a high level of security and resilience, especially when redundancy and backup measures are required.

A unique, installer-friendly and dynamic, automatic self-learn facility bypasses the traditional manually initiated auto-learn process.

The CHAMELEON range of panels has a 'multi-master' approach which means that each independent panel on a network is aware of all system network events, and all panels within the network share the cause and effects as a global system. This works alongside GFE's unique, highly intelligible broadcast feature which will send local configuration to the network, ensuring a high level of redundancy. In simple terms, as long as you have broadcasted the correct and up-to-date configuration across the network, if a panel's main PCB or loop card fails, you can replace it and broadcast from another working panel on the network, and you can get the configuration back at that local panel at the click of a button.

Global Fire Equipment has ensured backward compatibility with its older generation of devices when developing new products.

EN54-2 and EN54-4
1328-CPR-0811

G-ONE

Single Loop
Fire Alarm Control Panel (non-expandable)

The G-ONE is a versatile and compact, single loop analogue addressable fire alarm control panel which can be surface or flush mounted.

Designed with affordability and flexibility in mind, the G-ONE combines sophisticated design with easy installation and intuitive commissioning whilst offering a cost-effective solution for smaller and standalone installations.

With the addition of a network card, the G-ONE panel offers advanced CHAMELEON peer-to-peer multi-master network communication and is capable of being networked with up to 32 control panels from the GFE range.

Each network control panel has its own internal configuration which is backed up along with the entire network configuration, providing the highest level of network security and resilience required for distributed fire detection and alarm systems.

A unique and user-friendly dynamic, automatic self-learn facility bypasses the traditional manually initiated auto-learn process.

EN54-2 and EN54-4
1328-CPR-0811

Key Features:

- ✔ Only available as a single loop panel
- ✔ 16 fire zone LEDs
- ✔ 188 addressable devices per loop with a 125 address limit (max. 250 devices)
- ✔ 900mA per loop
- ✔ Supports GFE and ZEOS protocols
- ✔ When panel is powered on in installation mode, no 'auto-learn' is required at commissioning stage as it will learn all devices within 90 seconds
- ✔ Peer-to-peer network of up to 32 CHAMELEON control panels
- ✔ RS422/Fibre-Optic options for networking communication
- ✔ USB (Type B) port for PC communication
- ✔ 2 conventional sounder circuits
- ✔ 2 fire output relays (changeover) and 1 fault relay (NC)
- ✔ 512 fully programmable alarm (sounder) groups
- ✔ 512 I/O groups
- ✔ 10,000 event memory
- ✔ High resolution, high contrast backlit blue LCD display
- ✔ Each panel backs up the configuration of the entire network

Technical Specifications:

Mains Supply	90V AC to 230V AC 50/60 Hz (+10%, -15% tolerance)
Primary DC Supply	28.5V DC @ 2.4A (max)
Secondary Supply	21.6V DC (min) to 27.2V DC (max) - battery charger: 27.5V DC
Battery Capacity	2 x 12V 7Ah (internally)
Quiescent Current	52mA
Alarm Current	91mA
Aux. Power Output	2 x 24V DC 300mA / 1 x 24V switched output
Loop Output Current (per loop)	900mA alarm peak/165mA quiescent
Conventional Sounder Circuits	2 x 250mA Max current drive - Fully monitored
Aux. Relays (Fire)	2 x rated 2A @ 30V DC resistive/0.5A @ 120V AC resistive/0.25A @ 240V AC resistive
Aux. Relays (Fault)	1 rated 2A @ 30V DC resistive/0.5A @ 120V AC resistive/0.25A @ 240V AC resistive
Operating Temperature	-10°C to 50°C
Humidity	Max. 85% RH Non-Condensing
Ingress Protection	Surface Mount: IP30, Recessed Mount: IP65
Dimensions	273mm (L) x 404mm (H) x 107mm (W)
Weight	1.6Kg (no batteries)
Enclosure Colour	White (RAL 9003) / Anthracite (RAL7016)

GFE Order Code	Part No.	Description
G-ONE	G-ONE	G-ONE 1 Loop Control Panel - Non Expandable

GEKKO

0 &2 Loop
Fire Alarm Control Panel

The GEKKO is the successor to the JUNIOR V4 panel.

It is a versatile and compact analogue addressable fire alarm control panel which is expandable from 0 to 2 loops and can be surface or flush mounted.

Powerful cause and effect programming capabilities along with enhanced system diagnostics performance make the GEKKO panel suitable for a wide range of applications, from small to large buildings or sites with multiple complex areas.

With the addition of a network card, the panel offers advanced CHAMELEON peer-to-peer multi-master network communication and is capable of being networked with up to 32 control panels from the GFE range.

Each network control panel has its own internal configuration which is backed up along with the entire network configuration, providing the highest level of network security and resilience required for distributed fire detection and alarm systems.

A unique and user-friendly dynamic, automatic self-learn facility bypasses the traditional manually initiated auto-learn process.

EN54-2 and EN54-4
1328-CPR-0811

Key Features:

- ✔ Expandable to 2 loops
- ✔ 16 fire zone LEDs
- ✔ 188 addressable devices per loop with a 125 address limit (max. 250 devices)
- ✔ 900mA per loop
- ✔ Supports GFE and ZEOS protocols
- ✔ No 'auto-learn' required at commissioning stage. The panels automatically detect and recognise addressed and connected devices
- ✔ Peer-to-peer network of up to 32 CHAMELEON control panels
- ✔ RS422/Fibre-optic options for networking communication
- ✔ USB (Type B) port for PC communication
- ✔ 2 conventional sounder circuits
- ✔ 2 fire output relays (changeover) and 1 fault relay (NC)
- ✔ 512 fully programmable alarm (sounder) groups
- ✔ 512 I/O groups
- ✔ 10,000 event memory
- ✔ High resolution, high contrast backlit blue LCD display
- ✔ Each panel backs up the configuration of the entire network

Technical Specifications:

	GEKKO-0	GEKKO-2
Mains Supply	90V AC to 230V AC 50/60 Hz (+10%, -15% tolerance)	
Primary DC Supply	28.5V DC @ 2.4A (max)	
Secondary Supply	21.6V DC (min) to 27.2V DC (max) - Battery Charger: 27.5V DC	
Battery Capacity	2 x 12V 7Ah (internally)	
Quiescent Current	52mA	55mA
Alarm Current	92mA	96mA
Aux. Power Output	2 x 24V DC 300mA/1 x 24V switched output	
Loop Output Current (per loop)	900mA alarm peak/165mA quiescent	
Conventional Sounder Circuits	2 x 250mA Max current drive - Fully monitored	
Aux. Relays (Fire)	2 x rated 2A @ 30V DC resistive/0.25A @ 240V AC resistive	
Aux. Relays (Fault)	1 rated 2A @ 30V DC resistive/0.5A @ 120V AC resistive/0.25A @ 240V AC resistive	
Operating Temperature	-10°C to 50°C	
Humidity	Max. 85% RH Non-Condensing	
Ingress Protection	Surface Mount: IP30/Recessed Mount: IP65	
Dimensions	273mm (L) x 404mm (H) x 107mm (W)	
Weight	1.6Kg (no batteries)	
Enclosure Colour	White (RAL 9003)/Anthracite (RAL7016)	

GFE Order Code	Part No.	Description
GEKKO-0	GEKKO - 0 LOOP	GEKKO 0 Loop Control Panel
GEKKO-2	GEKKO - 2 LOOP	GEKKO 2 Loop Control Panel

OCTO+

2-4 Loop
Fire Alarm Control Panel

The OCTO+ is a versatile and compact analogue addressable fire alarm control panel, available in 2-4 loops, which can be surface or flush mounted.

Powerful cause and effect programming capabilities along with enhanced system diagnostics performance make the OCTO+ panel suitable for a wide range of applications, from small to large buildings or sites with multiple complex areas.

With the addition of a network card, the panel offers advanced CHAMELEON peer-to-peer multi-master network communication and is capable of being networked with up to 32 control panels from the GFE range.

Each network control panel has its own internal configuration which is backed up along with the entire network configuration, providing the highest level of network security and resilience required for distributed fire detection and alarm systems.

A unique and user-friendly dynamic, automatic self-learn facility bypasses the traditional manually initiated auto-learn process.

EN54-2 and EN54-4
1328-CPR-0811

Key Features:

- ✔ Available as a 2- 4 loop panel
- ✔ 16 fire zone LEDs
- ✔ 188 addressable devices per loop with a 125 address limit (max. 250 devices)
- ✔ 900mA per loop
- ✔ Supports GFE and ZEOS protocols
- ✔ No 'auto-learn' required at commissioning stage. The panels automatically detect and recognise addressed and connected devices
- ✔ Peer-to-peer network of up to 32 CHAMELEON control panels
- ✔ RS422/Fibre-optic options for networking communication
- ✔ USB (Type B) port for PC communication
- ✔ 2 conventional sounder circuits
- ✔ 2 fire output relays (changeover) and 1 fault relay (NC)
- ✔ 512 fully programmable alarm (sounder) groups
- ✔ 512 I/O groups
- ✔ 10,000 event memory
- ✔ High resolution, high contrast backlit blue LCD display
- ✔ Each panel backs up the configuration of the entire network
- ✔ Optional internal printer

Technical Specifications:

	OCTO-2	OCTO-4
Mains Supply	90V AC to 230V AC 50/60 Hz (+10%, -15% tolerance)	
Primary DC Supply	28.5V DC @ 2.4A (max)	
Secondary Supply	21.6V DC (min) to 27.2V DC (max) - Battery Charger: 27.5V DC	
Battery Capacity	2 x 12V 12Ah (internally)	
Quiescent Current	68	73mA
Alarm Current	117	127mA
Aux. Power Output	2 x 24V DC 300mA/1 x 24V switched output	
Loop Output Current (per loop)	900mA alarm peak/165mA quiescent	
Conventional Sounder Circuits	2 x 250mA Max current drive - Fully monitored	
Aux. Relays (Fire)	2 x rated 2A @ 30V DC resistive/0.5A @ 120V AC resistive/0.25A @ 240V AC resistive	
Aux. Relays (Fault)	1 rated 2A @ 30V DC resistive/0.5A @ 120V AC resistive/0.25A @ 240V AC resistive	
Operating Temperature	-10°C to 50°C	
Humidity	Max. 85% RH Non-condensing	
Ingress Protection	Surface Mount: IP30	
Dimensions	345 (L) x 375 (H) x 139 (W) mm	
Weight	7.5Kg (no batteries)	
Enclosure Colour	White (RAL 9003)	

GFE Order Code	Part No.	Description
OCTO-2	OCTO + / 2 LOOP	OCTO 2
OCTO-4	OCTO + / 4 LOOP	OCTO 4

CHAMELEON Repeater

Full Control Repeater

The CHAMELEON repeater, although a compact design, functions in the same way as a control panel but without the loops and backup batteries.

The CHAMELEON network operates as a true peer-to-peer system of up to 32 control panels.

The repeater has a built-in network card and occupies a network address. It can be wired as fault-tolerant (recommended) or standard network topology.

Technical Specifications:	
Primary Supply	28.5V DC nominal (max)
Quiescent Current	65mA / 22mA
Alarm Current	26mA
Operating Temperature	-10°C to 50°C
Humidity	Max. 85% RH Non-Condensing
Ingress Protection	Surface Mount: IP30, Recessed Mount: IP65
Dimensions	256mm (L) x 194mm (H) x 75mm (W)
Weight	760g
Enclosure Colour	White (RAL 9003)

GFE Order Code	Part No.	Description
CHAMELEON-REP	CHAMELEON MINI REP INT RS422 P2P-D	CHAMELEON Control Repeater

Peripherals

A range of peripherals are available for the CHAMELEON range of panels.

Network Cards

- ✔ Allows the interconnection of up to 32 CHAMELEON network control panels
- ✔ One required per control panel (CHAMELEON repeaters include this as standard)
- ✔ Max. cable length between control panels = 1.2km
- ✔ Max. cable length across network = 1.2km (RS422)/4.5km (Fibre-optic)

GFE Order Code	Part No.	Description
GFE-NETCARD-D	INT RS422 P2P-D	CHAMELEON RS422 Network Communication Card

OCTO+ Internal Printer

Technical Specifications:

Primary Supply	20 - 30V DC
Supply Current	43mA (standby)/500mA (printing)
Operating Temperature	0°C to 50°C
Dimensions	256mm (L) x 194mm (H) x 75mm (W)
Weight	633g

GFE Order Code	Part No.	Description
OCTO-PRINTER	CHAMELEON internal printer	OCTO+ internal printer

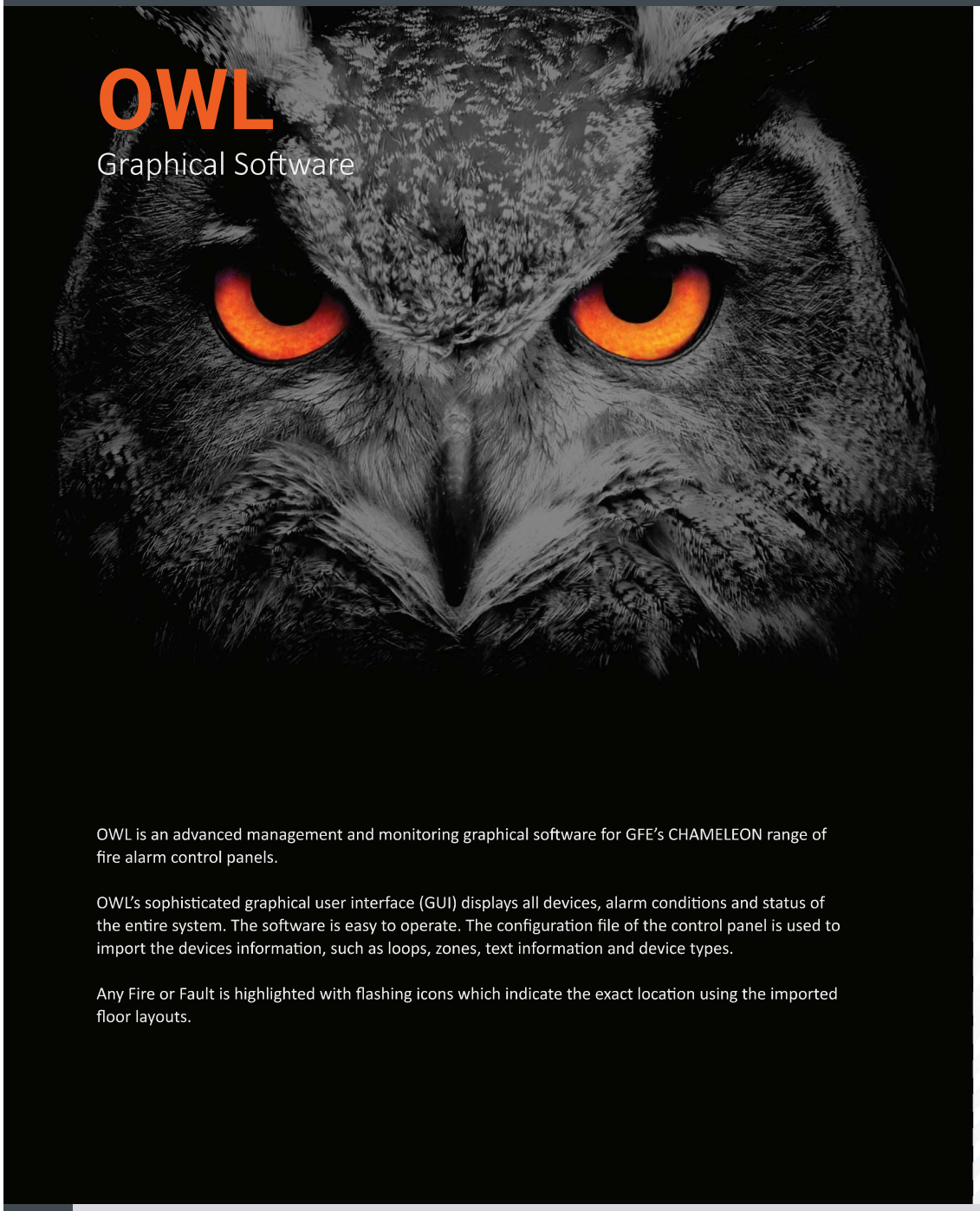
Web Interface

Allows integration with existing LANs via Wi-Fi or optional Ethernet cable

Technical Specifications:

Primary Supply	20 - 30V DC
Supply Current	28mA
Operating Temperature	-10°C to 50°C
Dimensions	90mm (L) x 40mm (H)
Weight	24g

GFE Order Code	Part No.	Description
CHAMELEON-TCP-WEB	INT-TCP-WEB	CHAMELEON Web Interface for Remote Access



OWL

Graphical Software

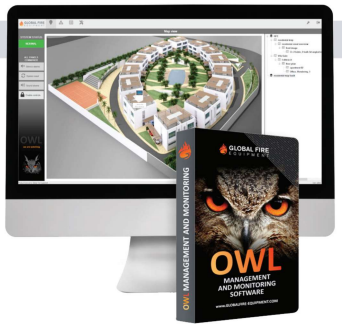
OWL is an advanced management and monitoring graphical software for GFE's CHAMELEON range of fire alarm control panels.

OWL's sophisticated graphical user interface (GUI) displays all devices, alarm conditions and status of the entire system. The software is easy to operate. The configuration file of the control panel is used to import the devices information, such as loops, zones, text information and device types.

Any Fire or Fault is highlighted with flashing icons which indicate the exact location using the imported floor layouts.

Key Features:

- ✔ Drag and drop icon placement for easy mapping
- ✔ Operation from software: Silence/Resound, Enable/Disable, System Reset
- ✔ View real-time device information such as analogue values
- ✔ Max. 5 users simultaneously connected
- ✔ User levels: Admin/Operator
- ✔ Global event log
- ✔ Selectable event notification via Email and SMS
- ✔ Compatible operating system: Windows XP/7/8/10, MacOS, Linux, Android and IO

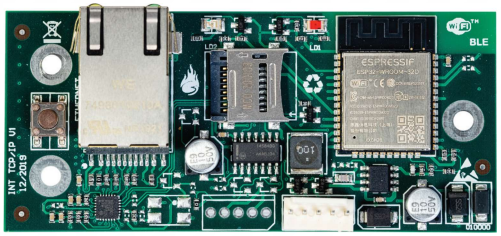


GFE Order Code	Part No.	Description
OWL-1	OWL- 1 PANEL	OWL Graphical Software Licence, 1 Panel
OWL-2-5	OWL - 2 to 5 PANELS	OWL Graphical Software Licence, 2-5 Panels
OWL-6+	OWL - 6+ PANELS	OWL Graphical Software Licence, 6+ Panels

OWL Graphical Interface

One required per network.

Allows integration of CHAMELEON panels into a graphical monitoring software by sending and receiving information about the network from the panel it is connected to.



Technical Specifications:

Primary Supply	24V DC
Supply Current	28mA
Operating Temperature	-10°C to 55°C
Dimensions	90mm (L) x 40mm (H)
Weight	24g

GFE Order Code	Part No.	Description
CHAMELEON-TCP-OWL	INT TCP/IP ODY	CHAMELEON OWL Graphical Interface Card

ZEOS-AD

Analogue Addressable Detectors

The ZEOS-AD series of analogue addressable detectors has been designed to be compatible with the GFE range of fire alarm control panels.

In conjunction with the CHAMELEON panels, the ZEOS-AD detector range contains algorithms that can accommodate several alarm thresholds and timed options in the multi-sensor variant.

Certified to EN 54-5 and EN 54-7, the ZEOS-AD series detectors are available in optical, heat and multisensory detector variants.

These detectors are available in white and black. ZEOS bases guarantee the electrical connection points within detector heads, which is key to ensuring a stable system. A deeper base version is also available.

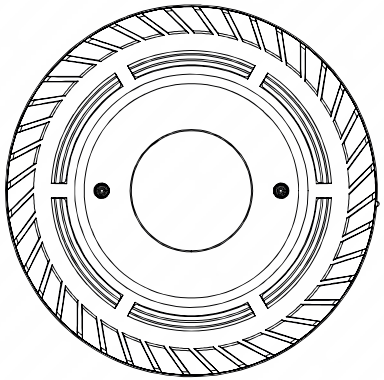
EN54-2 and EN54-4
1328-CPR-0811

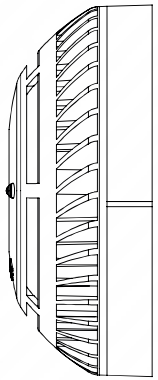
Key Features:

- ✔ EN54-5 & EN54-7 certified
- ✔ DIL switch addressing
- ✔ Dual LEDs for 360° visibility
- ✔ Option of switching off LEDs
- ✔ Sleek, low profile housing
- ✔ Available in White or Black variants

Technical Specifications:

Supply Voltage	17 - 30V DC
Quiescent Current	0.45mA
Alarm Current	4mA (detector LED illuminated)
Smoke Detector Sensitivity	Low/Normal (default)/High
Heat Detector Modes	55°C/65°C (default)/75°C/85°C
Multisensor Modes	Smoke/Heat/Smoke & Heat (default)
Operating Temperature (Normal)	0°C to 50°C
Operating Temperature (Transient)	-10°C to 85°C
Humidity	Max. 95% RH Non-Condensing
Ingress Protection	IP20
Dimensions	100mm (Dia) x 50mm (H) - with base
Weight	92g (without base)/144g (with base)
Colour	White and Black available





Detectors

GFE Order Code	Part No.	Description
ZEOS-AD-S	ZEOS-AD-S (HEAD) - WHITE	ZEOS Addressable Smoke Detector
ZEOS-AD-S(BLK)	ZEOS-AD-S (HEAD) - BLACK	ZEOS Addressable Smoke Detector, Black
ZEOS-AD-H	ZEOS-AD-H (HEAD) - WHITE	ZEOS Addressable Heat Detector
ZEOS-AD-H(BLK)	ZEOS-AD-H (HEAD) - BLACK	ZEOS Addressable Heat Detector, Black
ZEOS-AD-SH	ZEOS-AD-SH (HEAD) - WHITE	ZEOS Addressable Multisensor
ZEOS-AD-SH(BLK)	ZEOS-AD-SH (HEAD) - BLACK	ZEOS Addressable Multisensor, Black

Bases

GFE Order Code	Part No.	Description
ZEOS-BASE	ZEOS-DETECTOR-BASE - WHITE	ZEOS Mounting Base
ZEOS-BASE(BLK)	ZEOS-DETECTOR-BASE - BLACK	ZEOS Mounting Base, Black
ZEOS-DEEPBASE	ZEOS-DEEP-BASE - WHITE	ZEOS Deep Mounting Base
ZEOS-DEEPBASE(BLK)	ZEOS-DEEP-BASE - BLACK	ZEOS Deep Mounting Base, Black

MCPE-A

Addressable Manual Call Points

The MCPE-A series of analogue addressable manual call points, manufactured in compliance with EN54-11, has been designed to be compatible with the GFE range of addressable fire alarm control panels.

As standard, all GFE's addressable manual call points come with a built-in transparent hinged flap. The units also feature an integral short circuit isolator.

The manual call points come with a bi-colour LED, which flashes Green when connected and Red when in alarm.

For flush mount, a low profile mounting adaptor accessory, GFE-MCPE Adaptor Plate is available to enable the installation of the manual call point directly to a single gang electrical box.

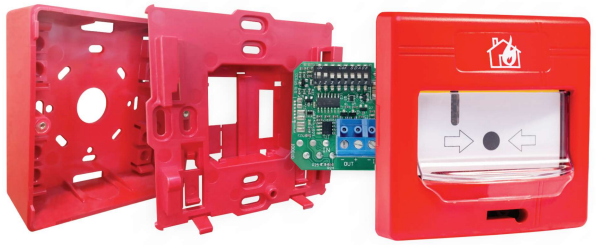
Key Features:

- ✔ Compliance with EN54-11
- ✔ DIL switch addressing
- ✔ Built-in transparent hinged flap
- ✔ Built-in loop short circuit isolator
- ✔ Bi-colour LED - Green (connected) & Red (alarm)

EN54-2 and EN54-4
1328-CPR-0811

Technical Specifications:

	GFE-MCPE-AI	GFE-MCPE-AI-IP67
Supply Voltage	20 - 30V DC	
Quiescent Current	0.65mA	
Alarm Current	3.1mA (red LED illuminated)	
Operating Temperature	-10°C to 55°C	10°C to 50°C
Humidity	Max. 95% RH Non-Condensing	
Ingress Protection	IP24D	IP67
Dimensions	60mm (D) x 93mm (H) x 93mm (W)	81mm (D) x 112mm (H) x 112mm (W)
Weight	152g	262g (includes back box and fixings)
Colour	Red	



Manual Call Points

GFE Order Code	Part No.	Description
GFE-MCPE-AI	GFE-MCPE-AI	GFE Addressable Manual Call Point c/w Isolator incl. Cover
GFE-MCPE-AI-IP67	GFE-MCPE-AI-IP67	GFE Addressable Manual Call Point c/w Isolator, IP67 incl. Cover

Accessories

GFE Order Code	Part No.	Description
GFE-MCPE-ADAPTOR	GFE-MCPE ADAPTOR PLATE	GFE Manual Call Point Adaptor Plate
GFE-MCPE-KEYS	RESET KEYS - 10	GFE Manual Call Point Reset Key (Pack of 10)

Addressable Audio/Visual

VULCAN2-A Base Mount

The addressable base-mounted VULCAN2-A is available in different sounder/beacon variants including as a combined sounder/beacon, which should be configured to operate in auxiliary mode for BS 5839 compliance.

Up to 63 VULCAN2-A devices can be connected per loop, subject to loop loading.

EN54-2 and EN54-4
1328-CPR-0811

Technical Specifications:

	VULCAN2-AS(I)	VULCAN2-AB(I)	VULCAN2-ASB(I)
Supply Voltage	20V - 30V DC		
Quiescent Current	0.65mA with Isolator 0.5mA without Isolator 0.7mA VOX variant	0.65mA with Isolator 0.5mA without Isolator	0.65mA with Isolator 0.5mA without Isolator
Alarm Current	7.15mA with Isolator 7mA without Isolator 7.5mA VOX variant	2.65mA with Isolator 2.5mA without Isolator	8.15mA with Isolator 8mA without Isolator
Max. Sounder Output	97dB @ 1m - 30V DC		
Operating Temperature	-10°C to 55°C		
Humidity	Max. 95% RH Non-Condensing		
Dimensions	50mm (H) x 100mm (Dia)		
Weight	144g (with base)		
Enclosure Colour	White and Black available		

GFE Order Code	Part No.	Description
VULCAN2-ASI	VULCAN 2 ASI	VULCAN 2 Addressable Base Sounder c/w Isolator
VULCAN2-ASI(BLK)	VULCAN 2 ASI - BLACK	VULCAN 2 Addressable Base Sounderc/w Isolator, Black
VULCAN2-ABI	VULCAN 2 ABI	VULCAN 2 Addressable Base Beacon c/w Isolator
VULCAN2-ABI(BLK)	VULCAN 2 ABI - BLACK	VULCAN 2 Addressable Base Beacon c/w Isolator, Black
VULCAN2-ASBI	VULCAN 2 ASBI	VULCAN 2 Addressable Base Sounder Beacon c/w Isolator
VULCAN2-ASBI(BLK)	VULCAN 2 ASBI - BLACK	VULCAN 2 Addressable Base Sounder Beacon c/w Isolator, Black
VULCAN2-LID	VULCAN 2 L	White Lid for VULCAN 2 Base Sounder
VULCAN2-LID(BLK)	VULCAN 2 L - BLACK	Black Lid for VULCAN 2 Base Sounder

GFE Order Code	Part No.	Description
VOX-A-VULCAN2-S	VULCAN 2 VOX - A	VULCAN 2 Addressable Base Voice Sounder, White

VALKYRIE-A
Wall Mount

The addressable wall-mounted VALKYRIE-A is available in different sounder/beacon variants, including as a combined sounder/beacon variant. Up to 32 individually addressed sounders can be installed per loop.

Technical Specifications:

	VALKYRIE-AS(I)	VALKYRIE-AB(I)	VALKYRIE-ASB(I)
Supply Voltage	20V - 30V DC		
Quiescent Current	0.65mA with Isolator 0.5mA without Isolator 0.7mA VOX variant	0.65mA with Isolator 0.5mA without Isolator 0.7mA VOX variant	0.65mA with Isolator 0.5mA without Isolator
Alarm Current	7.65mA with Isolator 7.5mA without Isolator 7.5mA VOX variant	1.55mA with Isolator 1.4mA without Isolator 8.9mA VOX variant	9.05mA with Isolator 8.9mA without Isolator
Max. Sounder Output	100dB @ 1m - 30V DC		
Operating Temperature	-10°C to 55°C		
Humidity	Max. 95% RH Non-Condensing		
Ingress Protection	IP21C Type A Indoor Use/IP65 Type B Outdoor Use		
Dimensions	85mm (H) x 110mm (Dia)		
Weight	254g (with base)		
Enclosure Colour	Red or White available		

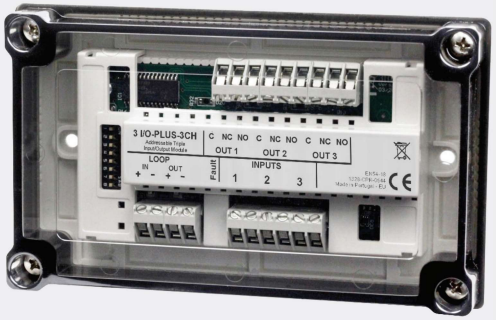
GFE Order Code	Part No.	Description
VALKYRIE-AS	VALKYRIE AS	VALKYRIE Addressable Wall Mount Sounder, Red
VALKYRIE-AS(WHT)	VALKYRIE AS WHT	VALKYRIE Addressable Wall Mount Sounder, White
VALKYRIE-ASI-IP65	VALKYRIE ASI IP65	VALKYRIE Addressable Wall Mount Sounder c/w Isolator, Red, IP65
VALKYRIE-AB	VALKYRIE AB	VALKYRIE Addressable Wall Mount Beacon, Red
VALKYRIE-AB(WHT)	VALKYRIE AB WHT	VALKYRIE Addressable Wall Mount Beacon, White
VALKYRIE ABI-IP65	VALKYRIE ABI IP65	VALKYRIE Addressable Wall Mount Beacon c/w Isolator, Red, IP65
VALKYRIE-ASB	VALKYRIE ASB	VALKYRIE Addressable Wall Mount Sounder Beacon, Red
VALKYRIE-ASB(WHT)	VALKYRIE ASB WHT	VALKYRIE Addressable Wall Mount Sounder Beacon, White
VALKYRIE-ASBI-IP65	VALKYRIE ASBI IP65	VALKYRIE Addressable Wall Mount Sounder Beacon c/w Isolator, Red, IP65

GFE Order Code	Part No.	Description
VOX-A-VALKYRIE-S	VALKYRIE VOX - A	VALKYRIE Addressable Wall Mount Voice Sounder, Red
VOX-A-VALKYRIE-S(WHT)	VALKYRIE VOX - A WHITE	VALKYRIE Addressable Wall Mount Voice Sounder, White
VOX-A-VALKYRIE-S-IP65	VALKYRIE VOX A - IP65	VALKYRIE Addressable Wall Mount Voice Sounder, Red, IP65
VOX-A-VALKYRIE-B	VALKYRIE VOX - AB	VALKYRIE Addressable Wall Mount Voice Beacon, Red
VOX-A-VALKYRIE-B(WHT)	VALKYRIE VOX - AB WHITE	VALKYRIE Addressable Wall Mount Voice Beacon, White
VOX-A-VALKYRIE-B-IP65	VALKYRIE VOX AB - IP65	VALKYRIE Addressable Wall Mount Voice Beacon, Red, IP65

Interfaces

GFE-IO
Input/Output Interfaces

GFE's Input/Output device allows interfaces of third-party equipment with the fire alarm control panel using normally open dry contacts. The connection to each input is monitored for Fault and Alarm conditions.



EN54-2 and EN54-4
1328-CPR-0811

The interfaces are available in 1, 2 and 3 voltage-free, single pole changeover relay outputs.

The units feature status LEDs and integral short circuit isolators.

GFE-MIO
Mains Switching Input/Output Interface

The Mains Input/Output interface is similar to GFE-IO but is available in 1 voltage-free, single pole changeover mains rated output.

Technical Specifications:

	GFE-IO-1	GFE-IO-2	GFE-IO-3	GFE-MIO
Supply Voltage	17 - 30V DC			
Quiescent Current (IQ)	1.4mA	1.5mA	1.6mA	1.3mA
Alarm Current	3.7mA	6.1mA	8.5mA	2.9mA
Current - Short Circuit	IQ + 1.4mA			
Current - Open Circuit	IQ + 1mA			
Current - Output	IQ + 1.1mA for each output in alarm			
Output Relay Contact Rating	30V DC max, 2A			240V AC max, 8A
Operating Temperature	-10°C to 50°C			
Humidity	Max. 95% RH Non-Condensing			
Dimensions	90mm (L) x 32mm (H) x 150mm (W)			
Weight	216g (boxed)			210g (boxed)

GFE Order Code	Part No.	Description
GFE-IO-1	3 I/O - PLUS - 1 CHANNEL	GFE Addressable 1-Channel I/O Module c/w Isolator
GFE-IO-2	3 I/O - PLUS - 2 CHANNELS	GFE Addressable 2-Channel I/O Module c/w Isolator
GFE-IO-3	3 I/O - PLUS - 3 CHANNELS	GFE Addressable 3-Channel I/O Module c/w Isolator
GFE-MIO	MAINS I/O	GFE Mains Switching I/O Module c/w Isolator

GFE-ZMU
Zone Monitoring Unit Interface

The Zone Monitoring Unit Interface is used to connect conventional zones to the fire alarm control panel and is available in 1 or 2 zone variants. This module requires an external 24V DC power supply.

Technical Specifications:

	GFE-ZMU-1	GFE-ZMU-2
Supply Voltage	20 - 30V DC	
Loop Current	1.6mA	
Quiescent Current	5.3mA	
Alarm Current	23mA	46mA
Current - Short Circuit	33mA	66mA
Current - Open Circuit	7mA	14mA
Operating Temperature	-10°C to 50°C	
Humidity	Max. 95% RH Non-Condensing	
Dimensions	90mm (L) x 32mm (H) x 150mm (W)	
Weight	220g (boxed)	

GFE Order Code	Part No.	Description
GFE-ZMU-1	QUAD ZMU - 1 ZONE	GFE Addressable 1 Zone Monitoring Module
GFE-ZMU-2	QUAD ZMU - 2 ZONES	GFE Addressable 2 Zone Monitoring Module

MAM
Manually Addressed Module

With its compact size, the MAM allows the connection and addressing of conventional detectors, manual call points and conventional audio/visual devices on a loop.

Technical Specifications:

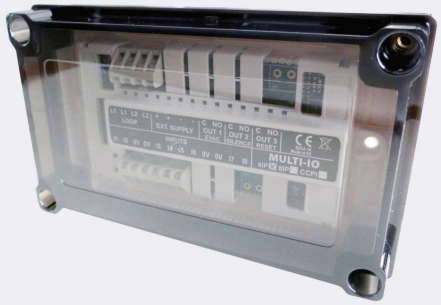
Supply Voltage	17V - 30V DC
Quiescent Current	1.1mA
Alarm Current	12mA
Operating Temperature	-10°C to 50°C
Humidity	Max. 95% RH Non-Condensing
Dimensions	48mm (L) x 12mm (H) x 24mm (W)
Weight	18g

GFE Order Code	Part No.	Description
MAM(WHT)	MAM - WHITE	Manually Addressed Module for Conventional Smoke / Heat Detectors
MAM(RED)	MAM - RED	Manually Addressed Module for Conventional Manual Call Points
MAM(YEL)-VAD	MAM - YELLOW VAD	Manually Addressed Module for Conventional VADs

GFE-MULTI
Multi Interface

The MULTI Interface Unit provides four zone monitor units, three sounder units and two system auxiliary relays.

The interface has selectable active or resistive end of line monitoring for the Zone Monitor Units. The status of each zone is indicated by two LEDs. A Red LED signals a Fire and a Yellow LED indicates a Fault on that zone.



EN54-2 and EN54-4
1328-CPR-0811

Technical Specifications:

Supply Voltage	20 - 30V DC (external supply)	
	Active EOL	**Resistive EOL**
Quiescent Current (IQ)	9.7mA	27mA
Alarm Current	23mA per zone	9mA per zone
	9mA per sounder	9mA per sounder
	6mA per active relay	6mA per active relay
Current - Open Circuit	7mA per zone	-
Current - Short Circuit	33mA per zone	31.5mA per zone
	1mA per sounder	1mA per sounder
Sounder Current	1A max. (combined S1, S2 and S3)	
Zone EOL	10uF 50V Bipolar Electrolytic Capacitor / 4K7 Ohm ¼W Resistor	
Sounder EOL	10K Ohm	
Relays Specification	30V DC 2A	
Relay 1 Function	Active with any zone with alarm condition (zones 'OR' function)	
Relay 2 Function	Panel reset signal (active for 10s after panel reset)	
Operating Temperature	-10°C to 50°C	
IP Rating	IP50	
Humidity	Max. 95% RH Non-Condensing	
Dimensions	90mm (L) x 32mm (H) x 150mm (W)	
Weight	210g	

GFE Order Code	Part No.	Description
GFE-MULTI	MULTI-IO	GFE Multi I/O Module - 4 x ZMU + 3 x LSC + 2 x Aux. Relays

Software

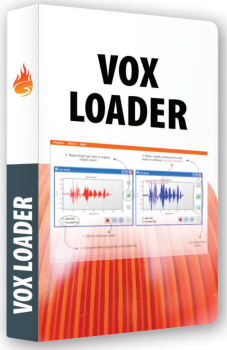
CHAMELEON Connector

The CHAMELEON Connector configuration software enables the programming of the Chameleon range of panels.

VOX Loader

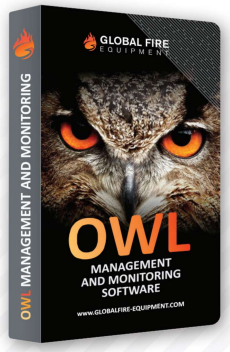
The VOX Loader software allows the configuration and download of voice messages to the VOX range of audio/visual devices.

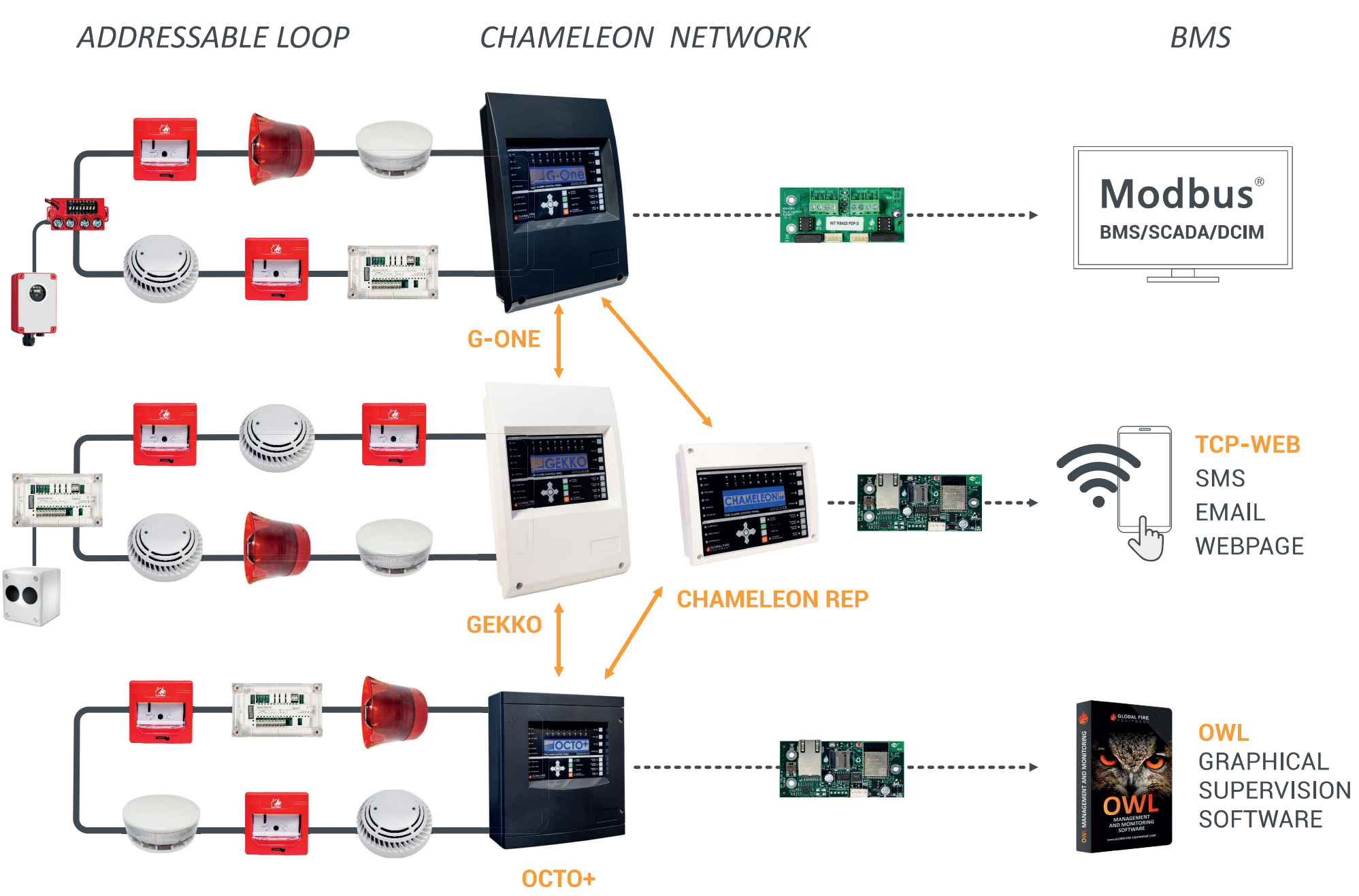
The VOX Loader automatically detects whether the connected device is addressable or conventional.



OWL

OWL is a fire alarm management and graphical monitoring software that works with the CHAMELEON range of panels.




ADDRESSABLE LOOP
CHAMELEON NETWORK
BMS
G-ONE
GEKKO
OCTO+
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Modbus®
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TCP-WEB
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GRAPHICAL
SUPERVISION
SOFTWARE

ORION

Conventional Fire Alarm Control Panel

Easy to install and housed in a plastic ABS enclosure, the ORION conventional control panel range offers a creatively designed and aesthetically pleasing solution for smaller, cost-conscious installations that demand simplicity of operation. The range features 2, 4 and 8 Zone variants.

Operation is extremely intuitive, offering simple control and one-button disablement facilities, as well as the Walk (one-man) Test mode, which enables simple and rapid testing of the system during commissioning and maintenance.

A wide range of engineering functions are also provided, including selectable zone delays, coincidence and non-latching zone facilities. Comprehensive test and fault-finding facilities are also provided.

Optional repeaters, relay expansion boards and EN 54-13 system compliance devices are also available.

EN54-2 and EN54-4
1328-CPR-0811

Key Features:

- ✔ Compliance with EN54-2/4
- ✔ 2, 4 and 8 zone (non-expandable) variants
- ✔ Up to 32 conventional devices per zone
- ✔ Active end of line monitoring
- ✔ Programmable non-latching zones (selectable for each zone)
- ✔ Programmable sounder delay timer
- ✔ Programmable delay operation for each zone
- ✔ Programmable non-latching zones
- ✔ Day/night function
- ✔ Coincidence (programmable for adjacent zones)
- ✔ Walk-Test feature
- ✔ Auxiliary 24V supply output
- ✔ 2 monitored sounder circuits
- ✔ 3 remote inputs (Class Change, Remote Reset and Day/Night operation)
- ✔ 2 on-board relays (Fire and Fault)
- ✔ Optional repeater and conventional peripherals available

Technical Specifications:

	ORION-2	ORION-4	ORION-8
Mains Supply	230V AC (+10%, -15% tolerance)		
Mains Supply Fuse	4A 250V		
Primary DC Supply	28.5V DC @ 1.7A (max)		
Secondary Supply	21.0V DC (min) to 27.2V DC (max) - Battery Charger: 28V DC		
Battery Capacity	2 x 12V 7Ah (internally)		
Aux. Relays (Fire)	50V DC 1A resistive		
Aux. Relays (Fault)	50V DC 1A resistive		
Quiescent Current	52mA	52mA	55mA
Alarm Current	91mA	91mA	96mA
Aux. Power Output	2 x 24V DC 300mA / 1 x 24V switched output		
Loop Output Current (per loop)	900mA alarm peak/165mA quiescent		
Conventional Sounder Circuits	2 x 250mA Max		
Operating Temperature	-10°C to 50°C		
Humidity	Max. 95% RH Non-Condensing		
Ingress Protection	IP30		
Dimensions	273mm (L) x 404mm (H) x 107mm (W)		
Weight	1.7Kg (no batteries)		
Enclosure Colour	White		

GFE Order Code	Part No.	Description
ORION-2	ORION 2	ORION 2 Zone Panel
ORION-4	ORION 4	ORION 4 Zone Panel
ORION-8	ORION 8	ORION 8 Zone Panel

ZEOS-C

Conventional Detectors

The ZEOS-C series of fire alarm detectors has been designed to be exclusively compatible with GFE's range of conventional detection zones available in the following equipment:

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

Certified to EN54-5 and EN54-7, the ZEOS-C series detectors are available in Smoke, Heat and Combined Smoke/Heat versions.

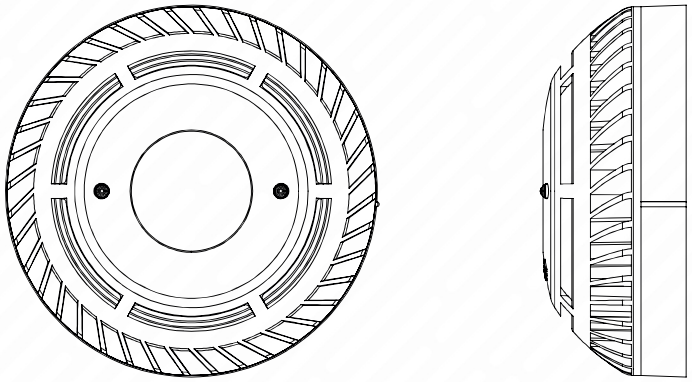
EN54-2 and EN54-4
1328-CPR-0811

Key Features:

- ✔ EN54-5 & EN54-7 certified
- ✔ DIL switch addressing
- ✔ Dual LEDs for 360° visibility
- ✔ Option of switching off LED's
- ✔ Sleek, low profile housing
- ✔ Available in White or Black variants

Technical Specifications:

SUPPLY VOLTAGE	17-30V DC
CURRENT - QUIESCENT / SURGE	Heat: 7uA/Smoke: 33uA/Smoke & Heat: 35uA
CURRENT - DEVICE IN ALARM	24 mA - Alarm LEDs illuminated
SENSITIVITY	According to EN54-5 or/and EN54-7
CABLE SIZE	0.5-2.5 mm²
RESET/START-UP TIMES	20 seconds max.
IP RATING / COLOUR / CASE MATERIAL	IP20/White/ABS
MAX. HUMIDITY	95% RH Non-Condensing
NORMAL / TRANSIENT OPER. TEMPERATURE	0°C to 50°C/-10°C to 85°C
DIMENSIONS	100 (D) x 50 (H) mm included base
WEIGHT	92g and 144g inc. base
COMPATIBILITY	ORION, ORION MINI, ORION EX, ORION-PLUS, QUAD-ZMU and ZMU



Detectors

GFE Order Code	Part No.	Description
ZEOS-C-S	1328-CPR-0705	PHOTOELECTRIC SMOKE DETECTOR
ZEOS-C-H	1328-CPR-0706	FIXED TEMPERATURE/HEAT DETECTOR
ZEOS-C-SH	1328-CPR-0704	MULTISENSOR SMOKE & HEAT DETECTOR

Bases

GFE Order Code	Part No.	Description
ZEOS-DIODEBASE	ZEOS-DETECTOR-DIODE BASE	ZEOS Diode Base

MCPE-C

Conventional Manual Call Points

The MCPE-C series of conventional manual call points, manufactured in compliance with EN 54-11, has been designed to be compatible with GFE's range of conventional fire alarm control panels.

All GFE's conventional manual call points come with a flexible element and a built-in transparent hinged flap as standard.

The manual call points come with a bi-colour LED, which flashes Green when connected and Red when in alarm.

For flush mount, a low-profile mounting adaptor accessory, GFE-MCPE ADAPTOR PLATE, is available to enable the installation of the manual call point directly to a single gang electrical box.

EN54-2 and EN54-4
1328-CPR-0811

Key Features:

- ✔ Compliance with EN54-11
- ✔ Flexible element
- ✔ Built-in transparent hinged flap
- ✔ Bi-colour LED - Green (connected) & Red (alarm)
- ✔ Available in Red, Yellow, Green, Blue and White variants

Technical Specifications:

	GFE-MCPE-C	GFE-MCPE-C-IP67
Supply Voltage	15 - 30V DC	
Quiescent Current	0.2mA	
Alarm Current	50mA (red LED illuminated) @ 24V DC	
Operating Temperature	-10°C to 55°C	
Humidity	Max. 95% RH Non-Condensing	
Ingress Protection	IP24D	IP67
Dimensions	60mm (D) x 93mm (H) x 93mm (W)	81mm (D) x 112mm (H) x 112mm (W)
Weight	152g	262g (includes back box and fixings)
Colour	Red / Yellow / Green / Blue / White available	

Manual Call Points

GFE Order Code	Part No.	Description
GFE-MCPE-C	GFE-MCPE-C	GFE Conventional Manual Call Point, Red incl. Cover
GFE-MCPE-C(YEL)	GFE-MCPE-C YELLOW	GFE Conventional Manual Call Point, Yellow incl. Cover
GFE-MCPE-C(GRN)	GFE-MCPE-C GREEN	GFE Conventional Manual Call Point, Green incl. Cover
GFE-MCPE-C(BLU)	GFE-MCPE-C BLUE	GFE Conventional Manual Call Point, Blue incl. Cover
GFE-MCPE-C(WHT)	GFE-MCPE-C WHITE	GFE Conventional Manual Call Point, White incl. Cover
GFE-MCPE-C-IP67	GFE-MCPE-C-IP67	GFE Conventional Manual Call Point, Red, IP67 incl. Cover

Accessories

GFE Order Code	Part No.	Description
GFE-MCPE-ADAPTOR	GFE-MCPE ADAPTOR PLATE	GFE Manual Call Point Adaptor Plate
GFE-MCPE-KEYS	RESET KEYS - 10	GFE Manual Call Point Reset Key (Pack of 10)

GFE-REM-IND-C

Conventional Flashing Remote Indicator

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

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

Available in white as standard or in black if required (as seen).

GFE Order Code	Part No.	Description
GFE-C-REM-IND	GFE-REM-IND-CE	Conventional flashing Remote Indicator

Conventional Audio/ Visual

VULCAN2-C

Base Mount

The conventional base-mounted VULCAN 2-C is available in different sounder/beacon variants.

The audibility level can be adjusted if required using the potentiometer.

EN54-2 and EN54-4
1328-CPR-0811

Technical Specifications:

	VULCAN2-CS	VULCAN2-CB	VULCAN2-CSB
Supply Voltage	20V - 30V DC		
Alarm Current	7.5mA 28-65mA VOX variant	2.5mA	8.9mA
Max. Sounder Output	97dB @ 1m - 30V DC		
Operating Temperature	-10°C to 55°C		
Humidity	Max. 95% RH Non-Condensing		
Dimensions	38mm (H) x 110mm (Dia)		
Weight	149g (with Lid		
Enclosure Colour	White		

GFE Order Code	Part No.	Description
VULCAN2-CS	VULCAN 2 CS	VULCAN 2 Conventional Base Sounder c/w Lid
VULCAN2-CB	VULCAN 2 CB	VULCAN 2 Conventional Base Beacon c/w Lid
VULCAN2-CSB	VULCAN 2 CSB	VULCAN 2 Conventional Base Sounder Beacon c/w Lid

GFE Order Code	Part No.	Description
VOX-C-VULCAN2-S	VULCAN 2 VOX - CB	VULCAN 2 Conventional Base Voice Sounder, White

VALKYRIE-C

Wall Mount

The conventional wall-mounted VALKYRIE-C is available in different sounder/beacon variants.

EN54-2 and EN54-4
1328-CPR-0811

Technical Specifications:

	VALKYRIE-CS	VALKYRIE-CB	VALKYRIE-CSB
Supply Voltage	20V - 30V DC		
Alarm Current	7.5mA 28-65mA VOX variant	1.4mA 8.9mA VOX variant	8.9mA
Max. Sounder Output	98dB @ 1m - 30V DC		
Operating Temperature	-10°C to 55°C		
Humidity	Max. 95% RH Non-Condensing		
Ingress Protection	IP21C Type A Indoor Use / IP65 Type B Outdoor Use		
Dimensions	85mm (H) x 110mm (Dia) / 50mm (H) x 110mm (Dia) - VALKYRIE-CB only		
Weight	254g (with base) / 150g (with base) - VALKYRIE-CB only		
Enclosure Colour	Red or White available		

GFE Order Code	Part No.	Description
VALKYRIE-CS	VALKYRIE CS	VALKYRIE Conventional Wall Mount Sounder, Red
VALKYRIE-CS(WHT)	VALKYRIE CS WHT	VALKYRIE Conventional Wall Mount Sounder, White
VALKYRIE-CS-IP65	VALKYRIE CS IP65	VALKYRIE Conventional Wall Mount Sounder, Red, IP65
VALKYRIE-CB	VALKYRIE CB	VALKYRIE Conventional Wall Mount Beacon, Red
VALKYRIE-CB(WHT)	VALKYRIE CB WHT	VALKYRIE Conventional Wall Mount Beacon, White
VALKYRIE CB-IP65	VALKYRIE CB IP65	VALKYRIE Conventional Wall Mount Beacon, Red, IP65
VALKYRIE-CSB	VALKYRIE CSB	VALKYRIE Conventional Wall Mount Sounder Beacon, Red
VALKYRIE-CSB(WHT)	VALKYRIE CSB WHT	VALKYRIE Conventional Wall Mount Sounder Beacon, White
VALKYRIE-CSBI-IP65	VALKYRIE CSBI IP65	VALKYRIE Conventional Wall Sounder Beacon, Red, IP65

GFE Order Code	Part No.	Description
VOX-C-VALKYRIE-S	VALKYRIE VOX - C	VALKYRIE Conventional Wall Mount Voice Sounder, Red
VOX-C-VALKYRIE-S(WHT)	VALKYRIE VOX - C WHITE	VALKYRIE Conventional Wall Mount Voice Sounder, White
VOX-C-VALKYRIE-S-IP65	VALKYRIE VOX C - IP65	VALKYRIE Conventional Wall Mount Voice Sounder, Red, IP65
VOX-C-VALKYRIE-B	VALKYRIE VOX - CB	VALKYRIE Conventional Wall Mount Voice Beacon, Red
VOX-C-VALKYRIE-B(WHT)	VALKYRIE VOX - CB WHITE	VALKYRIE Conventional Wall Mount Voice Beacon, White
VOX-C-VALKYRIE-B-IP65	VALKYRIE VOX CB - IP65	VALKYRIE Conventional Wall Mount Voice Beacon, Red, IP65

Power Supply Units

Certified to EN 54-4, the ORION-BCM is a powerful self-contained 1.7a EN 54-4 Power Supply Unit (PSU). The ORION BCM enclosure is designed for indoor use and can be either surface or semi-recessed mounted. Cable gland entry points are provided at the top and back of the housing.

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

- 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 an independent watchdog system)

EN54-4
1328-CPR-0537
CERTIFIED

Key Features:

- ✔ One single-pole voltage free relay output for remote fault conditions monitoring
- ✔ Supervised 24V DC Supply Output with 900mA capability
- ✔ Certified to EN54-4
- ✔ Multiple visual status indicators - mains supply present, supply fault, battery fault and auxiliary supply fault

Technical Specifications:

MAINS SUPPLY VOLTAGE	90V to 253V AC @ 50 Hz
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 12V DC 7AH VRLA - Sealed Lead Acid Batteries Min. Voltage 21V DC (Vb min) - Max. Voltage 27.2V DC
MAINS FUSE	4A - 250V Slow Blow - 20 mm
BATTERY FUSE	1.6A Resettable - Electronic Fuse
MAX CURRENT DRAW FROM BATTERY (MAINS FAIL)	1.5A Max. @ Max. Operating Temperature
FAULT RELAY	Active in Fault condition, 2A @ 30V DC resistive / 0.25A @ 230V AC resistive; NC
DC POWER OUTPUT	27.5V DC Nominal - Max. Current Draw 900mA
SIZE	273 (L) x 142 (W) x 404 (H) mm
WEIGHT	1.7 Kg / 7 kg (including 2 x 12AH 12V DC batteries)
OPERATING TEMPERATURE	-10ºC to +50ºC
MAX RELATIVE HUMIDITY	95% non condensing
IP RATING	For indoor use. Surface Mounted: IP30, Semi- Recessed Mounted
ENCLOSURE COLOUR	White (RAL 9001)

Order Code

GFE Order Code	Part No.	Description
ORION-BCM	1328-CPR-0537	24V DC 1.7A PSU with Battery Charger, EN54, Max. 2 x 7Ah Batteries

Authorised Distributor Network

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E: enquiries@acornfiresecurity.com

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Ashford Road
Fordingbridge
Hampshire
SP6 1BD
T: 01425 658 239
E: sales@detectionsupplies.co.uk

firesense ltd
FIRE DETECTION EQUIPMENT

Unit 5 Orchard Business Centre
North Farm Road
Tunbridge Wells
Kent
TN2 3XF
T: 01892 481 100
E: sales@firesense.co.uk

Illumino Ignis Ltd
LIGHTING & FIRE DESIGN, SUPPLY & SUPPORT

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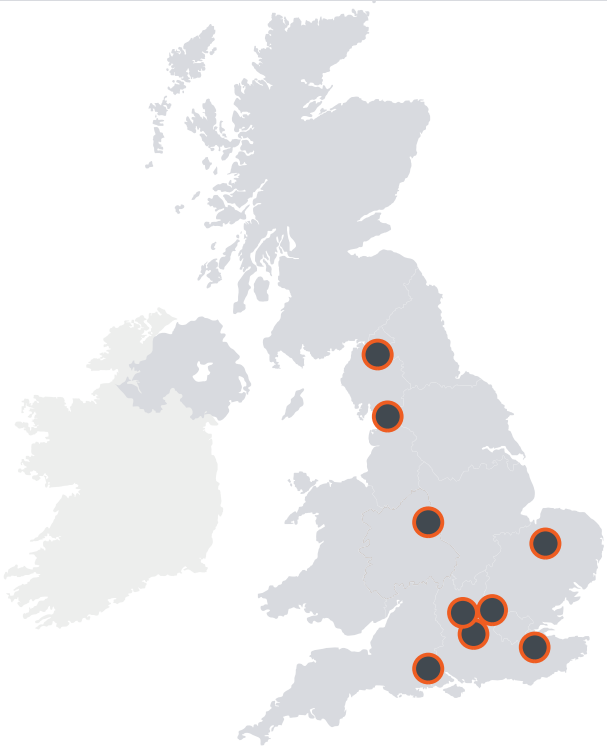

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Astra Electrical Ltd info@astra-elec.co.uk		01634 291079
Beacon Fire & Security Ltd info@beacon-ni.co.uk	www.beacon-ni.co.uk/	02892 676622
Fire & Security Solutions Ltd enquiries@fassl.co.uk	www.fassl.co.uk	01234 766121
Fisk Group info@fisk.group	www.fisk.group	01245 244399
Highland Alarms Ltd kenny.duncan@highlandalarms.com	www.highlandalarms.com	03442 643118
I.C Service & Maintenance Ltd sales@icservice.uk.com	www.icservice.uk.com	01634 290300
MC Enginered Solutions Ltd matthew.obrien@mcengineeredsolutions.co.uk		07730 869997
Lightning Safety Systems Ltd sales@lfltd.co.uk	www.lfltd.co.uk	02392 268 999
Lloret Group hello@lloret.co.uk	www.lloret.co.uk	0208 410 4600
Millwood Servicing Ltd matthew.wood@millwood.co.uk	www.millwood.co.uk	0208 669 0080
Property Fire Protection Ltd sales@propertyfire.co.uk	www.propertyfire.co.uk	01306 710131
Retail Fire Ltd sales@retailfire.co.uk	www.retailfire.co.uk	01892 337228
Safetech Systems Ltd sales@safetechUK.com	www.safetechUK.com	020 8848 6000
Technical Alarm Systems Ltd sales@technicalalarmsystems.co.uk	www.technicalalarmsystems.co.uk	0333 358 3456
Tecserv UK Ltd website@tecservuk.com	www.tecservuk.com	01773 764626
Walker Fire (UK) Ltd uk@walkerfire.com	www.walkerfire.com	01772 693777

Notes

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GSS GROUP