



# GEKKO

## 1 - 4 Loop EN54 Fire Alarm Control Panel



EN54-2 and EN54-4  
1328-CPR-0737  
CERTIFIED

The GEKKO is a versatile compact addressable Fire Alarm Control Panel which can be expandable from 1 to 4 loops and can be surface or recess mounted. The powerful cause and effect programming capabilities along with enhanced system diagnostics performance makes this control panel suitable for a wide range of applications from small to large buildings or sites with complex multiple areas.

With the addition of a network card the GEKKO incorporates the advanced peer-to-peer, multi-master Chameleon Networking communications protocol. The Chameleon Network can accommodate up to 32 networked fire alarm control panels (NODE's). Each control panel (NODE) has its own internal configuration along with the entire Network configuration backed up, which provides a high level of networking security and resilience required for distributed fire detection and alarm systems.

The GEKKO fire alarm control panel uses either RS 422 or Fibre Optic communications for the network, which is usually wired in a fault-tolerant loop configuration, providing multi-path system integrity for high speed monitoring and data communication. Additional ethernet interfaces provide further networking options allowing the system to communicate over other infrastructures. The control panel also has the provision to connect to CHAMELEON repeater control panels, using any of the networking interfaces on the CHAMELEON Networking protocol.

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.

The GEKKO can be securely accessed remotely via our proprietary ODYSSEY Graphics Interface or our TCPIP-WEB monitoring platform. Integration with third-party Building Management Systems (BMS) is provided via a dedicated Modbus output.

The system programming can easily be programmed on-site via the onboard navigation keypad or by using the powerful PC CHAMELEON CONNECTOR configuration software which is downloaded to the control panel or broadcasted to the network via a USB connection.





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### KEY FEATURES

- Expandable from 1 to 4 loops
- 900mA single loop (digital communication) addressable fire alarm control panel
- Up to 32, GEKKO, G-One, OCTO+ and NODE+ panels can be networked
- Connection to the repeater panels 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-Addressing Device support
- 2 Fire output relays (change-over) and 1 Fault relay (NC )
- 2 conventional alarm outputs (individually programmable)
- High integrity loop communication and device monitoring
- 384 fully programmable network zones
- 512 fully programmable sounder groups
- 512 I/O groups
- Event log (10000 events)
- Compatible with ZEOS, GFE and Apollo™ digital analogue addressable protocols
- Compatible with all GFE manufactured digital addressable ancillary modules
- High resolution, high contrast backlit blue graphical LCD display (240 x 64 pixels)
- Programming by integrated tactile keypad or Loader PC software
- 16 integrated programmable fire zone LED's
- SMS and EMAIL notification by means of TCP IP-WEB interface
- Installer friendly self auto-learn facility
- Certified to EN54 parts 2 and 4





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### TECHNICAL SPECIFICATIONS

|                                 |  |
|---------------------------------|--|
| MAINS POWER SUPPLY RATING       | 90V AC to 230V AC  |
| PRIMARY DC SUPPLY               | 28.5V DC @ 2.4 A (Max)   |
| SECONDARY SUPPLY                | 21.6 Min. - 27.2V DC (Max) - Battery charger: 27.5V DC                                   |
| BATTERY CAPACITY (INTERNAL)     | 2 x 12V 9AH (Max)  |
| QUIESCENT CURRENT (NO DEVICES)  | 60 mA  |
| AUX POWER OUTPUT                | 2 x 24V DC 300mA / 1 x 24V switched out  |
| MAXIMUM LOOP OUTPUT CURRENT     | 1 - 4 loops 900mA alarm peak/165mA quiescent per loop                                    |
| LOOP TOPOLOGY                   | Class A (loop) or Class B (radial)   |
| LOOP CABLE                      | Fire resistant 2 x 1.5mm (max 1200m) or 2 x 2.5mm (max 2000m)                            |
| CONVENTIONAL SOUNDER CIRCUITS   | 2 x 500 mA Max. current drive for both circuits - Fully monitored                        |
| AUX. RELAYS FIRE                | 2 x 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     |
| GRAPHICAL LCD DISPLAY           | High definition, high contrast blue backlit 240 x 64 pixels                              |
| COMMUNICATION CHANNELS          | 2 x configurable communications ports  |
| BMS OUTPUT                      | ODYSSEY (Graphical software), TCP IP-WEB (remote web monitoring), MODBUS RTU, ESPA 4.4.4 |
| SOFTWARE CONNECTION             | USB type B   |
| EVENT LOG                       | 10,000 events  |
| OPERATING / STORAGE 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                          | 1,6 Kg (no batteries)  |
| ENCLOSURE COLOURS               | White (RAL 9003) and Red (RAL 3001)  |

### ORDER CODE

|          |               |                   |
|----------|---------------|-------------------|
| GEKKO-1L | 1328-CPR-0737 | 1 LOOP - PSU 2.4A |
| GEKKO-2L | 1328-CPR-0737 | 2 LOOP - PSU 2.4A |
| GEKKO-3L | 1328-CPR-0737 | 3 LOOP - PSU 2.4A |
| GEKKO-4L | 1328-CPR-0737 | 4 LOOP - PSU 2.4A |

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#### Global Fire Equipment SA

Sítio dos Barrabés, Armazém Nave Y, Caixa Postal 908-Z  
8150-016 São Brás de Alportel. PORTUGAL

Telephone: (00351) 289 896 560 / Email: info@globalfire-equipment.com / Web: www.globalfire-equipment.com



**GSS GROUP**