



NGA-800 PLUS

1 - 4 Loop EN54 Fire Alarm Control Panel

The NGA-800 PLUS 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 NGA-800 PLUS incorporates the advanced peer-to-peer, multi-master NGARA 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 NGA-800 PLUS fire alarm control panel uses either RS422 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 NGARA-800 PLUS control panels, using any of the networking interfaces on the NGARA 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 NGA-800 PLUS can be securely accessed remotely via our proprietary NGA-905 Graphics Interface or our TCP/IP-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 NGARA CONNECTOR configuration software which is downloaded to the control panel or broadcasted to the network via a USB connection.

▶ Key Features

- ▶ Expandable from 1 to 4 loops
- ▶ 900mA single loop (digital communication) addressable fire alarm control panel
- ▶ Up to 32, NGA-800 PLUS, NGA-101 PLUS, NGA-600 PLUS and NGA-NODE-600 PLUS 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 NG-505 (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 digital analogue addressable protocols
- ▶ Compatible with all NORTECH 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

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	NGA-905 (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

NGA-801 PLUS	1 LOOP - PSU 2.4A
NGA-802 PLUS	2 LOOP - PSU 2.4A
NGA-803 PLUS	3 LOOP - PSU 2.4A
NGA-804 PLUS	4 LOOP - PSU 2.4A