



## NGA-101 PLUS

### Single Loop Fire Alarm Control Panel

The NGA-101 PLUS is a versatile compact addressable Fire Alarm Control Panel which 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-101 PLUS incorporates the advanced peer-to-peer, multi-master NGARA Networking communications protocol. The NGARA 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-101 PLUS 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 NGARA-800 PLUS panels, using any of the networking interfaces of 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-101 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 done 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 broadcast to the network via a USB connection.



## ▶ Key Features

- ▶ 900mA single loop (digital communication) addressable fire alarm control panel
- ▶ Up to 32 NGA-101 PLUS, NGA-800 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) per loop.
- ▶ 32 individually programmable sounder addresses
- ▶ Full Self-Addressing device support
- ▶ 2 Fire output relays (change-over) and 1 Fault relay (NC)
- ▶ 2 Non-addressable (conventional) alarm outputs (individually programmable)
- ▶ High integrity loop communication and device monitoring
- ▶ 384 fully programmable network zones
- ▶ 512 fully programmable alarm (sounder) groups
- ▶ 512 I/O groups
- ▶ Event log (10,000 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 USB Loader PC software
- ▶ Multiple menu selectable language support
- ▶ 16 integrated programmable fire zone LED's
- ▶ SMS and EMAIL notification by means of TCP IP-WEB interface
- ▶ Installer friendly automatic self-learn facility
- ▶ CPR Certified to EN54-2 and EN54-4

**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 (INTERNA)	2 x 12V 9AH SLA
QUIESCENT CURRENT (NO DEVICES)	55 mA
AUX POWER OUTPUT	2 x 24V DC 300mA / 1 x 24V switched output
MAXIMUM LOOP OUTPUT CURRENT	1 loop - 900mA alarm peak/165mA quiescent
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 250 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 communication 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) or Red (RAL 3001)

**Order Code****NGA-101 PLUS**

1 LOOP - PSU 2.4A