

## NGA-600

Analogue Addressable Fire Alarm Control Panel



### OVERVIEW

NGA-600 is a powerful Analogue Addressable Fire Alarm Control Panel with networking capabilities that facilitate the configuration of complex Wide Area Fire Detection Systems. Modular construction and distributed intelligence allow systems of up to 96 loops to be constructed. With a High level built-in redundancy and emergency back-up features, the NGA-600 is fully equipped to control the most complex installations.



Using its wide array of interfacing capabilities the NGA-600 is ideally placed to provide an efficient and effective solution to the logistics of protecting large institution. NGA-600 is available as a standalone system of up to 13 loops in a single cabinet and can be expanded to up to 96 loops via a networked array of sub-panels which can be supplied in a blank box version or combined with a repeater to allow remote display and control of the system. Networking is done by a monitored, redundant, double RS422/RS485, Fibre optic loop or TCP/IP network.

NGA-600 networking capabilities are further enhanced by a wide range of programming options which provides the capabilities to customise the system according to the needs of the customer. Flexible cause and effect programming of I/O devices and warning devices ensure that fire or fault warnings trigger the appropriate response.

An interactive graphic representation of the system can be displayed on the users' computer via the NGA-905 graphical software (optional). All the devices on the system can be displayed on a building plan showing their status in real time. In the event of fire or fault the customer can control the system and access all the necessary information with a few mouse-clicks.

Automatic device detection at start up reduces time spent at the commissioning stage. In Installation mode, NGA-600 detects and recognises addressed and connected devices with the system being fully operational in less than two minutes. The default programming ensures that the system is ready to detect Fire/ Fault from the moment that power is applied.

Additional programming, to customise the system can be implemented via the on-board keypad, IR programmer, PS 2 keyboard or with laptop PC running the NGA-900 connector software.

## PRODUCT DATA SHEET

### FEATURES

- ▶ Fully expandable system from 1-96 Loops with distributed intelligence for added security.
- ▶ 125 Device addresses per Loop
- ▶ 2 Fire output changeover relays and 1 Fault output relay (NC)
- ▶ Open collector outputs for Fire, Fault and pre-alarm remote indication.
- ▶ 2 Fully monitored conventional sounder outputs on main panel and each sub panel
- ▶ 384 programmable zones
- ▶ 512 Fully programmable sounder and I/O groups
- ▶ Event Log 2000 entries
- ▶ Backlit LCD display 4 row x 40 characters
- ▶ Programming options: onboard keypad, Remote IR (optional), PS2 Keyboard and NGA-900 Connector Software
- ▶ PC Graphics package NGA-905 for alarm management and reporting (optional)
- ▶ MODBUS (ASCII & RTU) and BMS support

### SPECIFICATION

Specifications	1 - 4 LOOPS	4 - 13 LOOPS
LOOPS	1 to 4 loops - Max 275 mA per loop	4 to 13 loops - Max 275 mA per loop
SOUNDER OUTPUTS	2 at 28V DC / 500 mA each	4/6/8 24V DC / 500 mA each
AUX. RELAYS FIRE	2 rated 50 VAC / DC 1A resistive	2 rated 50 VAC / DC 1A resistive
AUX. RELAY FAULT	1 rated 50 VAC / DC 1A resistive	1 rated 50 VAC / DC 1A resistive
AUX POWER OUTPUT	28 V DC 600 mA	28 V DC 600 mA
ADDITIONAL OUTPUTS	Multiplexed up to 384 Zones	Multiplexed up to 384 Zones
PRIMARY SUPPLY	230 +10% -15% V AC	230 +10% -15% V AC
SECONDARY SUPPLY	28 V DC Nominal	28 V DC Nominal
POWER SUPPLY RATING	65 W (1-3 Loop) - 150 W (4 Loop)	150 W (4-6 Loop) - 200 W (7-13 Loop)
QUIESCENT CURRENT (NO DEVICES)	130 mA (1-3 Loop) - 180 mA (4 Loop)	130 mA + 90 mA / sub-panel
BATTERIES (INTERNAL)	2 x 12 V 12 AH	2 x 12 V 12 AH
DIMENSIONS	375 (H) x 345 (W) x 139 (D) mm	420 (H) x 550 (W) x 127 (D) mm
WEIGHT	5,1 Kg (no batteries)	8,1 Kg (no batteries)
OPERATING TEMPERATURE	0°C to +50°C	0°C to +50°C
HUMIDITY/ PROTECTION	Max 95% no condensation - IP21	Max 95% no condensation - IP21

ORDER CODE		ORDER CODE	
NGA-601	1 Loop - PSU 2.4A	NGA-607	Large Box - 7 Loops - PSU 7.5A
NGA-602	2 Loops - PSU 2.4A	NGA-608	Large Box - 8 Loops - PSU 7.5A
NGA-603	3 Loops - PSU 2.4A	NGA-609	Large Box - 9 Loops - PSU 7.5A
NGA-604	4 Loops - PSU 5A	NGA-610	Large Box - 10 Loops - PSU 7.5A
NGA-604L	Large Box - 4 Loops - PSU 5A	NGA-611	Large Box - 11 Loops - PSU 7.5A
NGA-605	Large Box - 5 Loops - PSU 5A	NGA-612	Large Box - 12 Loops - PSU 7.5A
NGA-606	Large Box - 6 Loops - PSU 5A	NGA-613	Large Box - 13 Loops - PSU 7.5A