

EVA-1 Analogue Fire Control Panel.



- 1 - 6 loop
- Nittan Evolution protocol
- 254 device addresses and 32 zones per loop
- 1524 device addresses and 192 zones per 6 loop panel
- Soft detector addressing using handheld programmer
- Full Loop device recognition
- Totally flexible networking capacity using RS485
- Modular Network system
- 100% Redundant network security (devices from any failing panel will be supported by the remainder) - Hot Standby
- Multi-processor design allowing full EN54 compliance
- Loop card processor alarm activation
- 2 fully monitored alarm circuits
- 50 Loop powered sounders per loop
- 4 programmable relay outputs
- RS232 output
- On board printer facility
- Optional cards for programmable relay activation
- Optional cards for 256 mimic LEDs
- Optional cards for 32 zone indications
- Optional cards for multiple repeaters
- Optional cards for 10 zones of conventional detectors
- 3A or 6A switch mode power supply
- Active and Passive Repeaters available
- Large on board LCD graphics display
- Graphics package available
- PC programmable and configurable
- Extensive cause and effect programming using Proprietary PLC Software code

Evolution 2

1-2 Loop Analogue Addressable Control Panels (Nittan Evolution Protocol)



Key Features

- ◆ From 1-2 loops
- ◆ Compliant with EN54 parts 2 and 4, BS EN 60950 and BS EN 50130 part 4
- ◆ Full Nittan Evolution compatibility including dual optical detector support
- ◆ Sensitivity change options by day/night and special group allocation
- ◆ Windows-based, full upload/download PC software package
- ◆ 300mA output per loop with highly stable voltage platform, even under mains-failed conditions
- ◆ Supports up to 254 addresses per loop
- ◆ Powerful processing and extensive panel and loop I/O capability
- ◆ Supports 31 x 8-way panel expansion boards
- ◆ Class change input
- ◆ User-friendly controls and a clear, unambiguous screen
- ◆ Membrane facia with tactile switches
- ◆ Complies with EMC and LVD Directives





Introduction

The **Evolution 2** analogue addressable panels are a powerful yet user-friendly series of control panels. They are designed to a high standard in compliance with EN54, parts 2 & 4. Each panel in this modular series has considerable processing ability but is easy to install, programme and operate. This is supported by comprehensive support documentation. Panels are housed in steel enclosures and are finished in hardwearing epoxy paint.

This panel is ideally suited to installations which require very complex sounder and control/shutdown functions. The panels are programmable to meet individual site requirements by means of a cause & effect matrix. This is downloaded from a PC, using the Cause & Effect Edit Programme. Text may be edited via a keyboard or downloaded from a PC.

The **Evolution 2** panel supports the dual optical smoke detector which offers a high resistance to operation by steam and therefore ideally suited for hotel and multi-occupancy environments.

The **Evolution 2** has a 4 line x 20 character backlit LCD display, showing the first and most recent event. Other events may be reviewed using the More Messages facility. User controls are accessed by means of keyswitch-enabled membrane controls, with password protection for engineer purposes. Each panel has a high level of processing power and each loop has its own processor. The panel allows up to 255 addresses per loop. All addresses on a loop may be used for output functions when used with appropriate loop hardware.

The system may be configured to automatically switch between different sensitivity levels for detection at selected times of day or week.

Up to 248 user-definable panel inputs and relay/two-stage alarm outputs can be provided via expansions boards. Many useful testing and service functions are also provided. All events may be recorded on the optional printer and zonal indications are included as standard. There is a complete range of compatible accessories available to support the **Evolution 2** panels to meet most customer requirements.

Technical Specifications

Mains voltage	230V AC +10% -15%	
Mains failed fault battery current	1 loop - 145mA	2 loop - 170mA
Mains failed alarm battery current	1 loop - 260mA	2 loop - 285mA
Maximum battery charging current	2A	
Alarm circuits	2 @ 1A per circuit	
Auxiliary supply	20V-28V @ 500mA	
Weight (excluding batteries)	7kg	
Dimensions	370mm high x 325mm wide x 139mm deep	

Part Numbers

2606/001	Evolution 2, 1 loop control panel
2606/002	Evolution 2, 2 loop control panel

Evolution 4

1-4 Loop Analogue Addressable Control Panels (Nittan Evolution Protocol)



Key Features

- ◆ From 1-4 loops
- ◆ Compliant with EN54 parts 2 and 4, BS EN 60950 and BS EN 50130 part 4
- ◆ Full Nittan Evolution compatibility including dual optical detector support
- ◆ Sensitivity change options by day/night and special group allocation
- ◆ Windows-based, full upload/download PC software package
- ◆ 300mA output per loop with highly stable voltage platform, even under mains-failed conditions
- ◆ Supports up to 254 addresses per loop
(Note: Maximum 512 devices per panel to comply with EN54-2)
- ◆ Powerful processing and extensive panel and loop I/O capability
- ◆ Supports 31 x 8-way panel expansion boards
- ◆ Class change input
- ◆ User-friendly controls and a clear, unambiguous screen
- ◆ Membrane facia with tactile switches
- ◆ Complies with EMC and LVD Directives





Introduction

The **Evolution 4** analogue addressable panels are a powerful yet user-friendly series of control panels. They are designed to a high standard in compliance with EN54, parts 2 & 4. Each panel in this modular series has considerable processing ability but is easy to install, programme and operate. This is supported by comprehensive support documentation. Panels are housed in steel enclosures and are finished in hardwearing epoxy paint.

This panel is ideally suited to installations which require very complex sounder and control/shutdown functions. The panels are programmable to meet individual site requirements by means of a cause & effect matrix. This is downloaded from a PC, using the Cause & Effect Edit Programme. Text may be edited via a keyboard or downloaded from a PC.

The **Evolution 4** panel supports the dual optical smoke detector which offers a high resistance to operation by steam and therefore ideally suited for hotel and multi-occupancy environments.

The **Evolution 4** has a 4 line x 20 character backlit LCD display, showing the first and most recent event. Other events may be reviewed using the More Messages facility. User controls are accessed by means of keyswitch-enabled membrane controls, with password protection for engineer purposes. Each panel has a high level of processing power and each loop has its own processor. The panel allows up to 255 addresses per loop. All addresses on a loop may be used for output functions when used with appropriate loop hardware (Note: Maximum 512 devices per panel to comply with EN54-2).

The system may be configured to automatically switch between different sensitivity levels for detection at selected times of day or week.

Up to 248 user-definable panel inputs and relay/two-stage alarm outputs can be provided via expansions boards. Many useful testing and service functions are also provided. All events may be recorded on the optional printer and zonal indications are included as standard. There is a complete range of compatible accessories available to support the **Evolution 4** panels to meet most customer requirements.

Technical Specifications

Mains voltage	230V AC +10% -15%
Mains failed fault battery current	1L - 145mA 2L - 170mA 3L - 195mA 4L - 220mA
Mains failed alarm battery current	1L - 260mA 2L - 285mA 3L - 310mA 4L - 335mA
Max. battery charging current	1.5A
Alarm circuits	2 @ 1A per circuit
Auxiliary supply	20V-28V @ 500mA
Weight (excluding batteries)	15kg
Dimensions	480mm high x 410mm wide x 144mm deep

Part Numbers

2606/003	Evolution 4, 1 loop control panel
2606/004	Evolution 4, 2 loop control panel
2606/005	Evolution 4, 3 loop control panel
2606/006	Evolution 4, 4 loop control panel