# Fire Alarm Control Panel

**NITTAN**

## Nittan Multi Panel NMP-10

The Nittan "Multi" Panel (NMP) is a powerful and sophisticated Analogue Addressable Fire Alarm Control Panel that offers a variety of modular components which allow it to meet a wide variety of applications.

The graphical touch screen provides a clear, uncluttered and intuitive interface which results in the end user requiring minimal training.

The control panel has the capability to support complex cause and effect programming and a wide range of user controllable functions that make the panel suitable for a vast range of projects from multi-site commercial developments through to industrial applications.

The addressable devices of the NMP panel use soft addressing using the EVA-AD2 handheld programming tool which helps minimise the potential for error and reduce the installation time associated with hard addressing.

It can operate as part of a networked system of up to 64 panel's Peer-to-Peer, or a standalone panel. It has powerful programming options that allow configurable control over whether messages from specific panels are transmitted around the network or remain local.
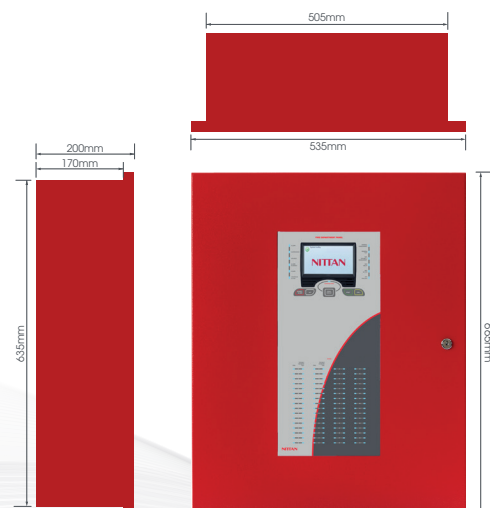
Each system component has been specifically designed to operate as part of the Evolution UL Listed system providing assurance that the detectors, interfaces, NAC devices, and panel are all fully compatible with each other and that the full range of system functionality is supported by all devices.

## Key Features

- Modular construction allows a panel to be specified using just the required modules.
- Up to 6 NMP-SLC modules.
- 4.3" colour touch screen display.
- Capacity for up to 10 intelligent modules.
- Full system redundancy.
- Extensive Day/Night mode programming.
- Full cause & effect programming via front panel or the Evolution UL PC Software.
- 8032 Events Log.
- Using multiple NMP-ZMA & NMP-ZMB modules, the panel can be configured into a fully functioning conventional panel.

- 254 Evolution UL devices per SLC.
- 254 available programmable zones.
- Up to 64 panel peer-to-peer network.
- Positive Alarm Sequence.
- Automatic Drift Compensation.
- Alarm Verification.
- Mains Trouble output delay of up to 240 minutes.
- NAC special application 24V mode.
- 240W Power Supply.
- Optional panel door printer and 64 zone LED expansion card available.

## Enclosure

**Dimensions**
H665mm x W535mm x D200mm

**Weight**
15KG

**Cable Entries**
38

**Max Module Capacity**
10

**Colour**
Red

# Specification

### Code

| | |
|---|---|
| Model No. / Description | NMP-10 / UL Inteligent Addressable 10 module Control Panel |
| Standard | UL864 10th Edition |

### Main Primary Supply

| | |
|---|---|
| Mains AC Supply Voltage | 240/120 VAC |
| Mains AC Supply Frequency | 50/60 Hz |
| Mains AC Supply Fuse | 5.0A (Time Delay) |
| Power Supply DC Rating | 30Vdc 10A |

### Battery Secondary Supply

| | |
|---|---|
| Battery Voltage | 24Vdc |
| Battery Charge Current | 2.2A (Max) |
| Battery Fuse | 8.0A (Fast Blow) |
| Battery Capacity (Supervised) | 2 x 38Ah, 12Vdc Sealed Lead Acid (Max) |

### Notification Appliance Circuits (NMP-NCA & NMP-NCB)

| | |
|---|---|
| NAC Voltage | 29Vdc Nominal (19V - 29V) |
| Maximum Current | 1.0A (NMP-NCA) / 500mA Per Circuit (NMP-NCB) |
| Maximum Line Resistance | 1.8Ω Total (NMP-NCA) / 3.6Ω Total (NMP-NCB) |
| Wiring Class | Class A (NMP-NCA) & Class B (NMP-NCB) (Power limited & Supervised) |
| Special Applications | Auxiliary 24Vdc Output (Power limited & Unsupervised) |

### Signaling Line Circuits (NMP-SLC)

| | |
|---|---|
| Rated Voltage | 35Vdc Nominal (Vmax 39Vdc, Vmin 24Vdc) |
| Maximum Current | 500mA |
| Maximum Device Capacity | 254 Addresses |
| Maximum Line Resistance | 50Ω (200mA) / 20Ω (500mA) |
| Wiring Class | Class X or Class A (Power limited & Supervised) |

### NMP Panel Relay Outputs

| | |
|---|---|
| Alarm | (C,NO,NC)<br>Contact rating: 125Vac @ 0.5A / 30Vdc @ 1A |
| Trouble | Normally Energised (C,NO,NC)<br>Contact rating: 125Vac @ 0.5A / 30Vdc @ 1A |

### Network

| | |
|---|---|
| Maximum Network Size | 64 Nodes |
| Maximum Distance Between Nodes | 1km |

### Software

| | |
|---|---|
| Maximum Software Nodes | 254 Zones |
| Maximum Event Log | 8032 Events |
| Software Programming | Touchscreen LCD or Evolution UL PC Software |

### Display

| | |
|---|---|
| LCD | 4.3" Resistive Touch Screen. 480 x 272 Pixel Resolution |
| LED Indicators | 2 Red (1 x Alarm, 1 x NAC Active), 1 Green (Power), 9 Yellow (1 x Supervisory, 1 x Trouble, 1 x Alarm Silenced, 1 x Controls Active, 1 x General Disablement, 1 x General Test, 1 x NAC Trouble/Disablement, 1 x NAC Delay, 1 x CPU Trouble) |
| Button Controls | Silence Alarm, Ack, Scroll, Reset, Drill |

### Environmental

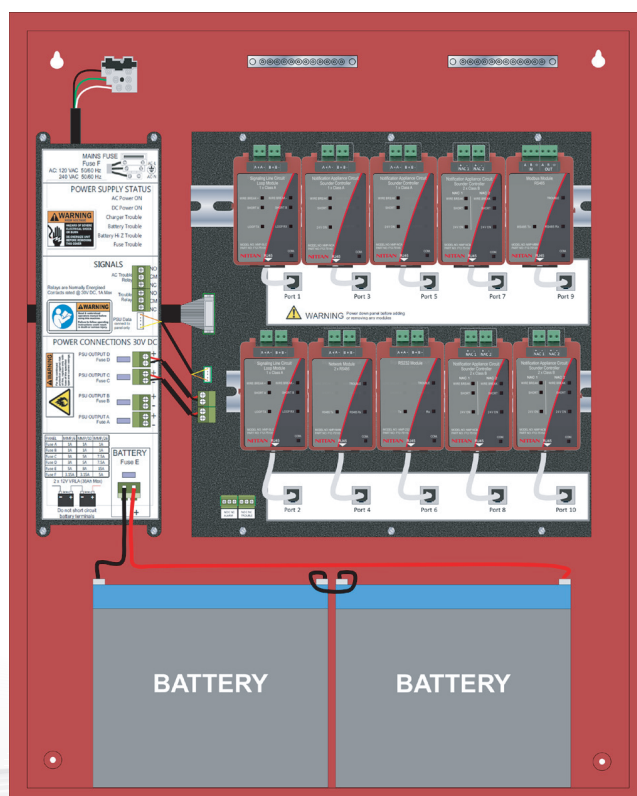| | |
|---|---|
| Operating Temperature | 0°C (32°F) to 49°C (120°F) |
| Relative Humidity | 93% Non-Condensing |

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## Product Codes

| Part No. / Model No. | Description |
|---|---|
| F12-75010 / NMP-10 | UL Nittan Multi Panel 10 Module |
| F12-75011 / NMP-10-64 | UL Nittan Multi Panel 10 Module + 64 Zone LEDs |
| F12-75012 / NMP-10-P | UL Nittan Multi Panel 10 Module + Printer |
| F12-75013 / NMP-10-64-P | UL Nittan Multi Panel 10 Module + 64 Zone LEDs & Printer |

## Module List

| Model No. | Description |
|---|---|
| NMP-SLC | Signaling Line Circuit Module - 1 x Class A |
| NMP-MIM | Multi Input Module - 6 x Class B |
| NMP-ZMA | Zone Monitor Module - 3 x Class A |
| NMP-ZMB | Zone Monitor Module - 6 x Class B |
| NMP-MRM | Multi Relay Module - 3 x Form C |
| NMP-NCA | NAC Module - 1 x Class A |
| NMP-NCB | NAC Module - 2 x Class B |
| NMP-NWM | Network Module - 2 x RS485 |
| NMP-232 | RS232 Printer Module - 1 x RS232 |

## Benefits

- Troubleshooting and programming time minimised by utilising a range of feature such as SLC auto search, walk test, system details menu's etc.

- Full system redundancy.

- Menu driven graphical touch screen user interface for ease of operation.

- Supports a comprehensive range of DIN mounted panel modules and devices for greater flexibility in design.

- Available in a variety of different panel enclosure sizes to better suit a sites requirements.

- Touch screen full functioning annunciator available.



NMP-10 Panel Interior View

NOT TO BE USED FOR INSTALLATION PURPOSES