

# NITTAN

## Fire Detection Systems



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# Quality from Start to Finish

The Nittan Group, with its premium Japanese designed products, has been at the forefront of the international fire protection industry since 1954. We manufacture over four million detectors, each to the highest quality adhering to ISO9001:2008 Quality Management.

## evo+



Nittan is now able to offer customers a first class complete end-to-end systems solution, featuring a full suite of products manufactured to the same high quality as our detectors.

The Nittan evolution analogue addressable fire detection range incorporates:

- **evo+ and evolution Series Fire Alarm Control Panels**
- **Smoke, Heat and Combined Detectors, plus award winning Dual Optical technology**
- **Audio Visual Devices, including Sounders and Beacons**
- **Detector, Sounder and Beacon Bases**
- **Manual Call Points**
- **Monitoring and Control Modules for connection to third party equipment**
- **Isolators**
- **Accessories for all eventualities**

Using Nittan's engineering expertise, our fire detection products are designed to work together in perfect harmony and each one has been rigorously tested.

## Evolution Technology for exceptional reliability

Nittan fire detection systems have been designed for the most demanding of applications, as found in the Marine, Off Shore and Industrial sectors; quality and reliability are paramount in such challenging situations.

Evolution uses micro processor technology in the sensors and sophisticated detection

algorithms, combining extremely reliable fire detection together with a very high degree of protection against unwanted false alarms. Its advanced, highly flexible protocol, is not only uniquely resistant to external interference, but also allows for substantial amounts of information to be transmitted at high speed.



# Panels That You Can Count On

All panels in the evo+ and evolution 1 ranges are fully compliant with the BS EN54 part 2 and 4. As expected from Nittan products, both ranges are built to meet the highest quality standards and provide many years of reliable service. Each has been designed with specific features and benefits to suit different market segments.



## evo+

The evo+ range consists of the evo+5101 with a single loop driver card; the evo+5200 1-2 loop; and the evo+5400 1-4 loop. They are suitable for a wide range of applications from small single panel sites to large, complex multi-area, multi-panel systems, where extensive Cause and Effect programming is required.

evo+ panels are compatible with the full evolution fire detection range available from Nittan.

They have been designed to be flexible and powerful, using the latest dual flash-based microprocessor technology. They come with 20 programmable zonal

LEDs with slide-in labels and 25 system LEDs for information purposes, four programmable function buttons with LED indication for confirmation of operation and two onboard sounder circuits.

Nittan evo+ panels support up to 200 fire zones by default, but can easily be expanded by up to 2000 zones via the Ad-NeT peer-to-peer network. Simply adding a network card allows the panel to communicate with any other evo+ fire panel, remote terminal, or network peripheral such as ipGateway™, BMS or graphical interface. The network operates as a true peer-to-peer system and can be configured in a fault tolerant loop or radial format.

The evolution 1 control panel is compatible with the award winning range of Nittan evolution detection and alarm devices, and has been specifically designed with the needs of both the installer and end user in mind. Its flexible architecture ensures that up to a 16 panel network can be achieved without additional hardware.



evolution 1 Panel

## evolution 1

For ease of use, the evolution 1 panel has a 4.3 inch touch screen display along with an intuitive and easy to use menu structure, allowing simple access to end user features and information direct from the panel.

Installation and commissioning, including complex cause and effect matrix, are made easy via the onboard touch screen and menu structure or using the PC tools and downloaded to the panel.

The clean cut, classic lines of the ABS enclosure make it attractive yet unobtrusive for the end user, suitable for surface mount, or recessed installation without the need for additional bezels

or hardware, and with a completely removable front cover to improve installer access for cabling and termination.

The flexible architecture of the panels and built-in networking hardware means everything from a single stand alone panel to a 16 panel network can be achieved without the cost or time implications of additional plug in hardware.

# NITTAN

# Devices of the Highest Quality

Designed and engineered to the highest industry standards all of Nittan's devices combine reliable fire detection with exceptional protection against unwanted false alarms.

Nittan designs all its devices for quick and easy installation, plus its LED technology ensures they never compromise on performance and efficiency. The devices function with a flexible FSK digital open protocol which is uniquely resistant to noise and allows for substantial amounts of information to be transmitted between them with no message collision and with minimal transmission errors due to a sophisticated data packet mechanism with built-in parity and check-sum features, making Nittan devices the ideal match for a variety of users.

A choice of Nittan devices also benefit from a bright 'Omniview' 360° Alarm Indicator, plus patented, award winning Dual Optical technology incorporated into key detectors. Another benefit is that they provide a highly cost-effective fire system solution from reduced cabling and installation work.

Nittan's devices not only feature sophisticated detection technology, but they are also aesthetically pleasing; their sleek design has a pleasing appearance, with a lower profile for an unobtrusive appearance. The clever design also makes for quick, simple installation, saving both time and money while remaining extremely competitively priced.

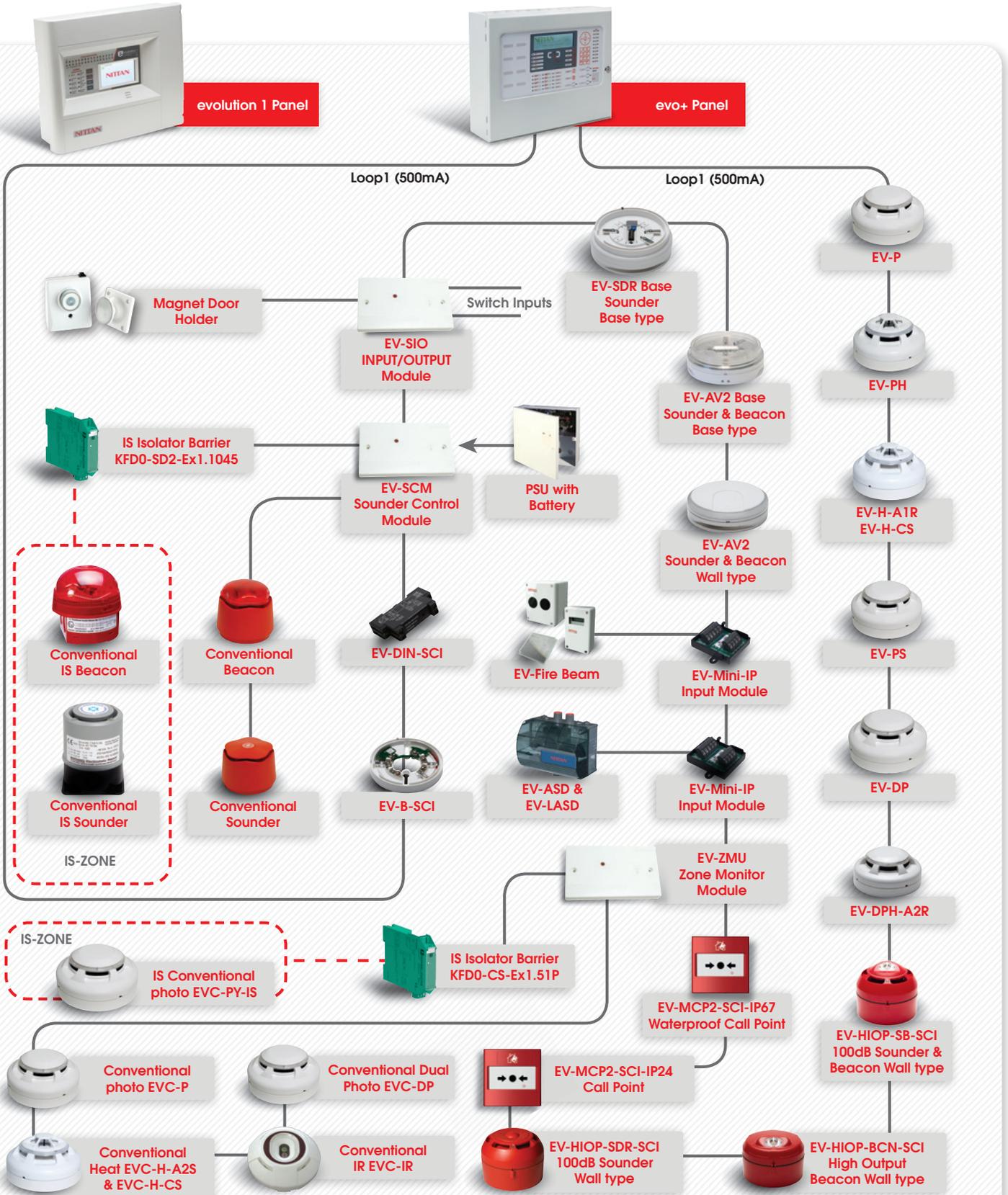
## Key Benefits of Nittan Devices

- **Up to 254 addresses per loop for flexible system design**
- **Built to exceptional marine standards for reliability and long life**
- **Unique, award-winning Dual Optical technology**
- **High speed FSK protocol resistant to noise**



# Nittan Evolution Addressable System:

An example of the devices that can be included on a complete Nittan fire detection system



**Note**

- Ethernet on board on evo+ & evolution 1
- Network Card on board on evolution 1
- TCP/IP Connectivity Coming Soon
- Network Card available on evo+