

# NITTAN

## EV-P

Optical Detector

Part No: F14-82100

Using a simple but effective technique, the EV-P Optical Detector incorporates a chamber housing an Infra Red (IR) LED light and a photodiode light detector set at an obtuse angle preventing it from seeing the light. When smoke enters the chamber the light bounces off the smoke particles and strikes the photodiode, causing it to generate an alarm condition when a set threshold value is met. The EV-P Optical Detector is therefore more sensitive to larger smoke particles which tend to be caused by smoldering fires rather than fast flaming fires.



- Optical Detector
- Evolution FSK protocol
- EEPROM Addressed (Programmer)
- RIL and Base Control Outputs

## EV-DP

Dual Optical Detector

Part No: F14-82105

Using the scattered light principle inherent in optical detectors, the EV-DP Dual Optical Detector goes one step further and uses both IR and blue LEDs to provide a more accurate measurement of particles within the chamber. By calculating the ratio of these light sources, which operate at different wavelengths, the EV-DP can determine the particle size and thus distinguish between smoke and non-combustion products such as steam and dust. This patented, award winning technology is unique to Nittan and provides an excellent solution to false alarms in areas prone to steam and dust, including hotels, hospitals and other areas of multiple occupancy.



- Dual Optical Technology reduces false alarms
- Evolution FSK protocol
- EEPROM Addressed (Programmer)
- RIL and Base Control Outputs

## EV-PH

### Optical Smoke and Heat Detector

Part No: F20-82400

The EV-PH is a combined Optical Smoke and Heat Detector in one unit. This advanced Multi Sensor is able to combine the benefits of both optical and heat sensing technologies making it less prone to false alarms than individual sensing devices. An innovative Nittan designed algorithm reads both signals simultaneously and generates alarm signals from either (or both) sensor(s).



- Optical Smoke and 54°C (A1R) Heat Sensors in one housing
- Evolution FSK protocol
- EEPROM Addressed (Programmer)
- RIL and Base Control Outputs

## EV-H-A1R

### Heat Detector 54°C

Part No: F15-82200

Unlike smoke detectors that detect the presence of smoke particles, heat detectors only react to changes in temperature. The EV-H-A1R is a Thermistor based Heat Detector, which use electronic components that change their resistance when heated; this change is detected by circuitry within the detector.



- 54°C Heat Detector
- Evolution FSK protocol
- EEPROM Addressed (Programmer)
- RIL and Base Control Outputs

## EV-H-CS

Heat Detector 92°C

Part No: F15-82201

Unlike smoke detectors that detect the presence of smoke particles, heat detectors only react to changes in temperature. The EV-H-CS is a Thermistor based Heat Detector, which use electronic components that change their resistance when heated; this change is detected by circuitry within the detector.



- 92°C Heat Detector
- Evolution FSK protocol
- EEPROM Addressed (Programmer)
- RIL and Base Control Outputs

## EV-PYS

Optical Detector with built in Sounder

Part No: F20-82510

Benefiting from the same sophisticated detection technology as the EV-P, the EV-PYS Optical Detector comes with a sounder fully integrated within the sensor itself as opposed to a separate sounder base. The EV-PYS sensor drives and controls the EV-PSBCN base, with the entire platform only taking one address for maximum system efficiency. This clever design makes for quick and simple installation, saving both time and money, whilst remaining extremely competitively priced. It also makes for a more aesthetically pleasing appearance, with a lower profile for an unobtrusive appearance.



- Optical Detector with built in Sounder
- Sounder ~ 88dB(A) @ ~ 3.5mA
- Drive Output for dedicated EV-PSBCN
- Evolution FSK protocol
- EEPROM Addressed (Programmer)

## EV-DPH-A2R

Dual Optical / Heat Detector

Part No: F14-82106

Using the scattered light principle inherent in optical detectors, the EV-DPH Dual Optical Detector goes one step further and uses both IR and blue LEDs to provide a more accurate measurement of particles within the chamber. By calculating the ratio of these light sources, which operate at different wavelengths, the EV-DPH can determine the particle size and thus distinguish between smoke and non-combustion products such as steam and dust. This patented, award winning sensor technology unique to Nittan, is further enhanced by the addition of a Heat sensor with Class A2R, Rate or Rise performance. This provides an excellent solution to false alarms in areas prone to steam and dust, including hotels, hospitals and other areas of multiple occupancy.



- Dual Optical Technology Plus Heat Sensor Reduces False Alarms
- Evolution FSK Protocol
- EEPROM Addressed (Programmer)
- RIL and Base Control Outputs

## EV-DPH-CS

Dual Optical / Heat Detector

Part No: F14-82107

Using the scattered light principle inherent in optical detectors, the EV-DPH Dual Optical Detector goes one step further and uses both IR and blue LEDs to provide a more accurate measurement of particles within the chamber. By calculating the ratio of these light sources, which operate at different wavelengths, the EV-DPH can determine the particle size and thus distinguish between smoke and non-combustion products such as steam and dust. This patented, award winning sensor technology unique to Nittan, is further enhanced by the addition of a Heat sensor with Class CS performance. This provides an excellent solution to false alarms in areas prone to steam and dust, such as Kitchen areas or Industrial installations prone to higher temperature.



- Dual Optical Technology Plus Heat Sensor Reduces False Alarms
- Evolution FSK Protocol
- EEPROM Addressed (Programmer)
- RIL and Base Control Outputs

## UB-6-EV

Detector Mounting Base

Part No: F03-83521



Universal Mounting base standardised across entire Nittan Group worldwide.

## EV-ABS

Sounder

Part No: F16-82010

Available in ceiling and low profile wall mounted options, the EV-ABS is an addressable loop powered sounder designed to meet the need for loop powered audio products, required for compliance to the DDA.

Requires UB4-EV-AB Detector Base.



- Evolution FSK protocol
- DIL Switch Addressed
- Loop Powered Sounder Base



## EV-SDR BASE

Base Sounder

Part No: F16-82100

The EV-SDR Base is a low profile Sounder device, with fully integrated base suitable for ceiling mounting and use with all types of Evolution analogue addressable detectors. The device has 12 tone options (3 Approved), which are easily selectable via DIP switch settings. The EV-SDR Base can be set to "Activate with Detector", in the Panel configuration, without any special device setting.



- Evolution FSK Protocol
- EEPROM Addressed (Programmer)
- 12 Tones DIP Switch Selected (3 Approved Tones)
- Replaces EV-ABS Sounder

## EV-AV2 BASE

Sounder/Beacon

Part No: F14-85011

The EV-AV2 provides a simple and highly flexible solution to meeting the DDA requirements by providing both sound and flashing light to alert occupants to a fire. Available as both integral base or low profile wall mounting version The Base version has a fully integrated detector base.



- Combined Sounder and Beacon with Integral Base
- Evolution FSK protocol
- EEPROM Addressed (Programmer)

## EV-PSBCN

Beacon Base (for use with EV-PS)

Part No: F16-82016

The EV-PSBCN base has been designed specifically for use with Nittan's Evolution EV-PS Optical Smoke detector with built in sounder. The analogue addressable photoelectric EV-PS detector drives and controls the EV-PSBCN base, with the entire platform only taking one address for maximum system efficiency.



- Beacon with Integral Base
- Non Addressed – dedicated for use with EV-PS

## EV-SDR

Sounder

Part No: F16-82110

The EV-SDR is a low profile Sounder device suitable for both Ceiling or Wall mounting applications. The device has 12 tone options (3 Approved), which are easily selectable via DIP switch settings.



- Evolution FSK Protocol
- EEPROM Addressed (Programmer)
- 12 Tones DIP Switch Selected (3 Approved Tones)
- Replaces EV-ABS Sounder
- Stand alone device, not for use with Detector

## EV-AV2

### Sounder Beacon

Part No: F14-85012

The EV-AV2 provides a simple and highly flexible solution to meeting the DDA requirements by providing both sound and flashing light to alert occupants to a fire. Available as both integral base or low profile wall mounting version The Base version has a fully integrated detector base.



- Combined Sounder and Beacon
- Evolution FSK protocol
- EEPROM Addressed (Programmer)
- Stand alone device, not for use with Detector

## EV-HIOP-SDR-SCI

### High Output Sounders

EV-HIOP-SDR-SCI High Output Sounder With -ve Isolator\*

Part No: F16-82060

EV-HIOP-SDR High Output Sounder

Part No: F16-82061

IP65 rated as standard, the EV-HIOP-SDR-SCI is an extremely cost effective wall mounted Sounder and is available in Versions with and without Short Circuit Isolator. It comes with 32 alarm tones (3 Approved) to choose from and individually controlled alarm and alert tones, allowing customers to choose a combination that works for any installation. It is EEPROM Addressed (Programmer) and features FSK signalling protocol for robust, reliable communications.



- IP65 rated
- 32 Tones DIP Switch Selected (3 Approved Tones)
- EEPROM Addressed (Programmer)
- FSK Signalling Protocol

**\*Note: +ve and -ve isolator styles cannot be mixed on a system.**



## EV-HIOP-BCN-SCI

### High Output Beacons

**EV-HIOP-BCN-SCI High Output Sounder Beacon With -ve Isolator\***

**Part No: F16-82055**

**EV-HIOP-BCN High Output Sounder Beacon**

**Part No: F16-82056**

IP65 rated as standard, the EV-HIOP-BCN-SCI is an extremely cost effective wall mounted Beacon (VAD) and is available in Versions with and without Short Circuit Isolator. It comes with 3 Approved Beacon Flash settings to choose from, allowing customers to choose which works best for any installation. It is EEPROM Addressed (Programmer) and features FSK signalling protocol for robust, reliable communications.



- IP65 rated
- Type B Outdoor Beacon With/Without -ve Isolator\*
- EEPROM Addressed (Programmer)
- FSK Signalling Protocol
- Beacon Rating W 2.4-7.5 / 135m<sup>3</sup>

## EV-HIOP-SB-SCI

### High Output Sounder Beacons

**EV-HIOP-SB-SCI High Output Sounder Beacon With -ve Isolator\***

**Part No: F16-82050**

**EV-HIOP-SB High Output Sounder Beacon**

**Part No: F16-82051**

IP65 rated as standard, the EV-HIOP-SB-SCI is an extremely cost effective wall mounted Sounder / Beacon (VAD) and is available in Versions with and without Short Circuit Isolator. It comes with 32 alarm tones (3 Approved) to choose from and individually controlled alarm and alert tones, allowing customers to choose a combination that works for any installation. It is EEPROM Addressed (Programmer) and features FSK signalling protocol for robust, reliable communications.



- IP65 rated
- 32 Tones DIP Switch Selected (3 Approved Tones)
- EEPROM Addressed (Programmer)
- FSK Signalling Protocol
- Beacon Rating W 2.4-5.5 / 73m<sup>3</sup>

## EV-HIOP-SB-R-SCI

High Output Sounder Beacons (RED)

EV-HIOP-SB-R-SCI High Output Sounder Beacon With -ve Isolator\*

Part No: F16-82052

EV-HIOP-SB-R High Output Sounder Beacon

Part No: F16-82053

IP65 rated as standard, the EV-HIOP-SB-R-SCI is an extremely cost effective wall mounted Red LED Sounder / Beacon (VAD) and is available in Versions with and without Short Circuit Isolator. It comes with 32 alarm tones (3 Approved) to choose from and individually controlled alarm and alert tones, allowing customers to choose a combination that works for any installation. It is EEPROM Addressed (Programmer) and features FSK signalling protocol for robust, reliable communications.



- IP65 rated
- 32 Tones DIP Switch Selected (3 Approved Tones)
- EEPROM Addressed (Programmer)
- FSK Signalling Protocol
- Beacon Rating W 2.4-3.0 / 22m3

## EV-HIOP-BCN-R-SCI

High Output Beacons (RED)

EV-HIOP-BCN-R-SCI High Output Sounder Beacon With -ve Isolator\*

Part No: F16-82057

EV-HIOP-BCN-R High Output Sounder Beacon

Part No: F16-82058

IP65 rated as standard, the EV-HIOP-BCN-R-SCI is an extremely cost effective wall mounted Red LED Beacon (VAD) and is available in Versions with and without Short Circuit Isolator. It comes with 3 Beacon Flash settings (1 Approved) to choose from, allowing customers to choose which works best for any installation. It is EEPROM Addressed (Programmer) and features FSK signalling protocol for robust, reliable communications.



- IP65 rated
- Type B Outdoor Beacon With/Without -ve Isolator\*
- EEPROM Addressed (Programmer)
- FSK Signalling Protocol
- Beacon Rating W 2.4-5.0 / 60m³

## EV-MCP2-IP24

### Surface Mounting Manual Call Point

Part No: F16-82201

Evolution Manual Call Points are available in a choice of STI 'ReSet' IP24 (EV-MCP2-IP24 Surface Mounting Manual Call Point) or IP67 housing (EV-MCP2-IP67 Waterproof Manual Call Point). They are DIL Switch Addressed and, in the case of the EV-MCP2-IP24, come with both Backbox & RF Wall Plate as standard.



- STI "Reset" IP24 Housing
- IP24 Rated
- DIL Switched Addressed
- Includes Backbox and RF Wall Plate
- Replaces EV-MCP Reset

## EV-MCP2-IP67

### Reset Waterproof Manual Call Point

Part No: F16-82206

Evolution Manual Call Points are available in a choice of STI 'ReSet' IP24 (EV-MCP2-IP24 Surface Mounting Manual Call Point) or IP67 housing (EV-MCP2-IP67 Waterproof Manual Call Point). They are DIL Switch Addressed and, in the case of the EV-MCP2-IP24, come with both Backbox & RF Wall Plate as standard.



- STI "Reset" IP67 Housing
- IP67 Rated
- DIL Switched Addressed
- Replaces EV-MCP-WP Reset

## EV MCP2 SCI IP24

### Surface Mounting Manual Call Point

Part No: F16-82200

Evolution Manual Call Points are available in a choice of STI 'ReSet' IP24 (EV-MCP2-SCI-IP24 Indoor Manual Call Point) or IP67 housing (EV-MCP2-SCI-IP67 Outdoor Manual Call Point). Both devices include Short circuit Isolator (-ve Line), which is a perfect solution to provide Isolation protection for a Zone. They are DIL Switch Addressed and, in the case of the EV-MCP2-SCI-IP24, come with both Backbox & RF Wall Plate as standard.



- Fully integrated -ve Line Isolator\*
- Easily resettable with dedicated key
- Supplied with Surface & Flush adaptors
- Self resetting when fault clears

**Note +ve and -ve isolator styles cannot be mixed on a system.  
Contact Nittan Technical Support for more details and information on panel compatibility.**

## EV-MCP2-SCI-IP67

### Waterproof Manual Call Point

Part No: F16-82205

Evolution Manual Call Points are available in a choice of STI 'ReSet' IP24 (EV-MCP2-SCI-IP24 Indoor Manual Call Point) or IP67 housing (EV-MCP2-SCI-IP67 Outdoor Manual Call Point). Both devices include Short circuit Isolator (-ve Line), which is a perfect solution to provide Isolation protection for a Zone. They are DIL Switch Addressed and in the case of the EV-MCP2-SCI-IP67, the Backbox has knock-outs and M20 threads for easy fit of Cable glands.



- Fully integrated -ve Line Isolator\*
- Easily resettable with dedicated key
- Supplied with Surface & Flush adaptors
- Self resetting when fault clears

## EV-IP

### Input Module

Part No: F16-82033

Nittan's extensive range of Evolution Analogue Modules – which have a new uniform, sleek design for aesthetic appeal – are designed for the monitoring and controlling of many types of third party equipment. The Modules are all EEPROM Addressed (Programmer), using the EV module address lead.



- 1 x Class A or 2 x Class B Inputs
- EEPROM Addressed (Programmer)
- Housing fits MK 2 gang pattress box

## EV-OP

### Output Module

Part No: F16-82027

Nittan's extensive range of Evolution Analogue Modules – which have a new uniform, sleek design for aesthetic appeal – are designed for the monitoring and controlling of many types of third party equipment. The Modules are all EEPROM Addressed (Programmer), using the EV module address lead.



- 1 x C/O aARelay Contact
- EEPROM Addressed (Programmer)
- Housing fits MK 2 gang pattress box
- Control Output for EV-240V MRA



## EV-SIO

### Single Input/Output Module

Part No: F16-82031

Nittan's extensive range of Evolution Analogue Modules – which have a new uniform, sleek design for aesthetic appeal – are designed for the monitoring and controlling of many types of third party equipment. The Modules are all EEPROM Addressed (Programmer), using the EV module address lead.



- 2A@24V 1 X C/O Relay Contacts
- 1 x Class B Input circuits
- EEPROM Addressed (Programmer)
- Housing fits MK 2 gang pattress box

## EV-ZMU

### Zone Monitor Module

Part No: F16-82023

Nittan's extensive range of Evolution Analogue Modules – which have a new uniform, sleek design for aesthetic appeal – are designed for the monitoring and controlling of many types of third party equipment. The Modules are all EEPROM Addressed (Programmer), using the EV module address lead.



- 2 x Class B Input circuits
- EEPROM Addressed (Programmer)
- Housing fits MK 2 gang pattress box

## EV-SCM

### Sounder Control Module

Part No: F16-82029

Nittan's extensive range of Evolution Analogue Modules – which have a new uniform, sleek design for aesthetic appeal – are designed for the monitoring and controlling of many types of third party equipment. The Modules are all EEPROM Addressed (Programmer), using the EV module address lead.



- 2A@24V Relay Contacts
- Class B Notification circuits
- EEPROM Addressed (Programmer)
- Housing fits MK 2 gang pattress box

## EV-SBM

### Sounder Booster Module

Part No: F16-82028

Nittan's extensive range of Evolution Analogue Modules – which have a new uniform, sleek design for aesthetic appeal – are designed for the monitoring and controlling of many types of third party equipment.



- Sounder Booster Module
- Non Addressed
- Housing fits MK 2 gang pattress box

## EV-MINI I/P

Mini Input Module

Part No: F16-82025

Nittan's extensive range of Evolution Analogue Modules – which have a new uniform, sleek design for aesthetic appeal – are designed for the monitoring and controlling of many types of third party equipment. The Modules are all EEPROM Addressed (Programmer), using the EV module address lead.



- Housing, KAC World Series MCP Cradle
- 1 x Class B Input
- EEPROM Addressed(Programmer)

## EV-240V MRA

Main Switch Relay

Part No: F16-82024

SELV relay module, suitable for switching 240v ac. Must be used in conjunction with the EV-OP Output module.



- Relay unit suitable for switch 24v- 240v
- Non Addressed

# FLUSH MOUNTING BOX

For EV Modules

Part No: F05-83228

- Use for faceplate style modules
- UK style electrical back box



## EV-AD2

Evolution Programming Kit

Part No: F05-83236

Kit includes EV-AD2 Programmer, Universal Lead and EV-AVADAPT.



- Handheld address programmer
- Battery/18V DC powered
- Simple operation
- Robust design
- Programmer lead port for modules

For more information on these products, please contact us:



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