

# Conventional Wireless Fire Alarm Systems

**Context**  
Plus



# Conventional Wireless Alarm System

"Want to save time, cost and disruption? Wireless maybe the answer."

The Ei413 Panel Interface Module allows you to do just that. Context Plus have a solution that will allow you to interface wireless Smoke, Heat, Manual Call Points (MCP) and other wireless accessories to conventional Fire Alarm panels



## Wireless Zones - Why?

- Minimise requirement for expensive cable
- Integrated sounders reduces cost
- Avoid cable runs in hard or impossible to reach areas
- Listed and protected buildings
- Renovations and refurbishments
- Up to 12 x wireless Smoke or Heat alarms and 8 x ancillaries (e.g. MCP) per zone
- Multi-repeater and multi-path robust connectivity

# Ei413 Panel Interface Module

## Fire + Security Panels

### Product Description

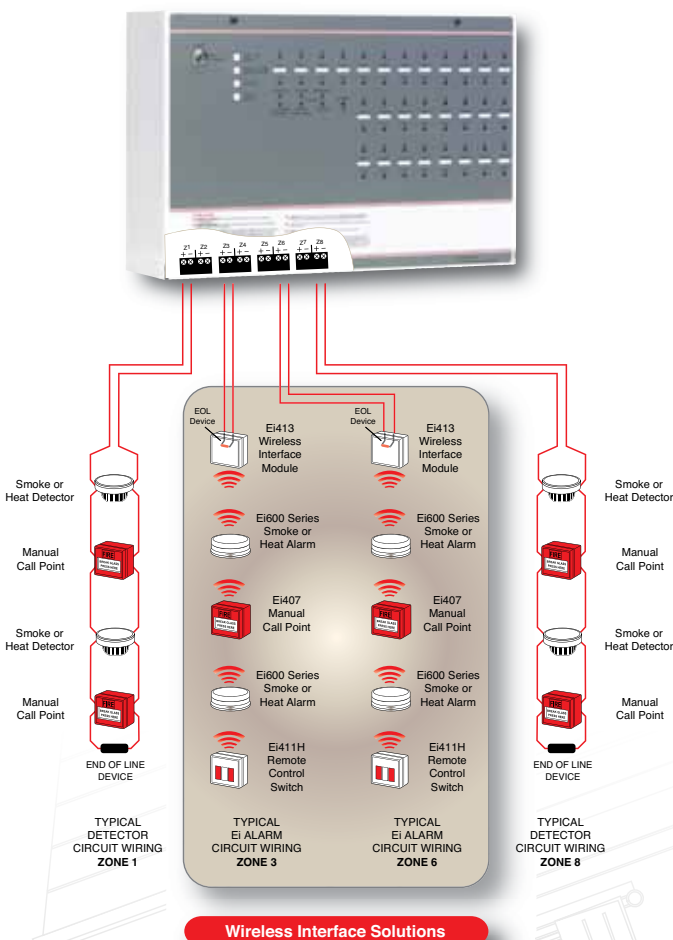
The Ei413 Panel Module allows Ei Electronics wireless alarms and accessories to interface with a security or fire panel.

This conventional wireless alarm system consists of Ei Electronics Smoke, Heat, CO Alarms along with accessory devices that are linked using a proprietary RF protocol. The Ei413 must be coded to the other Ei Electronics alarms and accessories in the system.

The Ei413 requires an 11-30VDC supply which is provided by the panel.

The Ei413 decodes "Fire", "CO" and "Fault" signals and activates the NO / NC voltage free contacts of the appropriate relay. These contacts are wired directly to the panel.

The Ei413 uses RadioLINK multi-repeater, multi-path technology to deliver very robust and reliable RF signal coverage.



### Technical Data

Supply Voltage:	11 – 30VDC (from panel)
Current Rating:	15mA (Standby) – 60mA (Alarm Max)
Output Relay:	Fire Alarm (NO/NC)
Aux Output Relay 1:	CO Alarm (NO/NC)
Aux Output Relay 2:	Fault Relay (NO/NC)
Output Relay Rating:	30V @ 1 Amp
Standard:	EN300220-3
RF Frequency:	868.499 MHz
RF Range:	100 Meters in free space
Temperature:	0°C – 50°C Operating 0°C – 35°C Storage
Humidity:	15% – 95% non condensing
RF Protocol:	Proprietary Multi-path, Multi-Repeater
Input 1:	Voltage free contacts (activates sounders)
Input 2:	11 – 30VDC (activates sounders)
Guarantee:	5 Years
Dimensions:	88 x 88 x 42mm
Weight:	190g (210g with packaging)

# Conventional Fire Panels

## MFP 4-28 Zone

Our MFP 4 to 28 Zone BS conventional fire panel was designed to fill the gap between low cost, low specification panels and higher priced, higher specification equipment.

Expandable from 4 to 28 zones in 4 zone steps, the MFP's features (4 sounder circuits, head-out fault indication and two on-board fire relays) plus its compatibility with a wide range of expansion boards makes it one of the most sophisticated BS5839-4 compliant fire panels available.

Extremely popular, the MFP boasts a wide range of engineering functions including one man detector test, sounder walk test, sounder isolate, sounder delay, auxiliary isolate and an optional short-circuit = fire facility (pre-1980 BS, no resistors in call points).

### Key MFP features:

- Compatible with Context Plus wireless & wired detectors
- Fully compliant with BS5839 Part 4
- Robust metal lid and metal back box
- End of line units included (one per zone)
- Non-latching zones
- One man detector test
- Sounder walk test
- Built-in 24V power supply & battery charger
- Ultra-bright long life LED indicators
- Fault buzzer mute facility

## MFP 4-28 Zone - BS 5839-4 CE mark



### Technical Data

- Mains Supply Voltage: 230VAC +/- 10%, 50/60Hz
- No of Zone Circuits: 4,8,12,16,20 or 28
- No of wireless Smoke Alarms per Zone: 12
- No of Sounder circuits if required: 4
- Enclosure Dimensions: 405 x 267 x 29mm
- Weight (Without Batteries):  
5Kg (MFP4-12); 9.5Kg (MFP 16-28)

## FirePlus Network Conventional 12 - 32 Zone

Quality, reliability, ease of use and feature rich are attributes that are consistent across the entire range of FirePlus panels. The FirePlus range of panels encompass all of these attributes to provide the engineer's panel of choice.

The panels have been designed to minimise labour costs by providing ample space for tasks such as wiring and changing batteries. Activation of controls is via key switch or access code, which means you should always be able to work on the panel and the one man walk tests will help reduce the cost of maintaining the system.

A host of configuration & programming options are provided, including; programmable inputs & outputs, false alarm management & zone interface function. FirePlus panels are approved by LPCB to EN54-2 & 4, Fire Detection and Alarm Systems - Control & Indicating Equipment.

### Key FirePlus features:

- Compatible with Context Plus wireless & wired detectors
- Networkable up to 8 panels per network loop)
- Class change & alert, programmable inputs
- Programmable relays & outputs (with delays)
- One man walk test (Test mode, with or without sounders)
- Key-switch or code entry activation for control
- Integral detector removal monitoring
- 2 Aux C/O relays (1 x Fire) (1 x Fault) voltage free
- Disable zones, sounder O/Ps, aux O/Ps & delays

## Fireplus 12-32 Zone LPCB to EN12094 part 1 EN54 part 2 & 4



### Technical Data

- Mains Supply Voltage: 230VAC +/- 10%, 50/60Hz
- No of Zone Circuits: 12, 16, 24 and 32
- No of wireless Smoke Alarms per Zone: 12
- No of Sounder circuits if required: 4
- Enclosure Dimensions: 405 x 267 x 29mm
- Weight (Without Batteries): 9Kg

# Conventional Fire Panels

## CFP 2 – 8 Zone

Our award-winning CFP conventional fire panel is LPCB certified to EN54 parts 2 and 4 and offers an array of user and installer-friendly features at a very competitive price.

Supplied in an attractive flush or surface mountable plastic enclosure, 2, 4 and 8 zone versions are available, each featuring four conventional sounder circuits, class change and alert inputs, on-board fire and fault relays and combined keypad/keyswitch entry.

A wide range of engineering functions are also provided including selectable zone delays, coincidence and non-latching zone facilities. Comprehensive test and fault finding facilities are also provided.

### Key CFP features:

- Compatible with Context Plus wireless & wired detectors
- LPCB certified to EN54 parts 2 & 4
- Intuitive user-friendly interface
- Integral 1.5A EN54-4/A2 PSU
- Two on-board relays (Fire & Fault)
- Wide range of engineer facilities including zone test, zone delay non-latching zones
- Two open-collector outputs (Remote & Reset)
- End of line units included
- Multiple indicators
- Easy to install flush or surface mounting

## FP 1 – 14 Zone – BS 5839-4

Our FP Range of conventional fire alarm control panels is one of the most robust and cost-effective available. Fully compliant with BS 5839 part 4, the range encompasses no less than ten different variants, covering 1 to 14 zones.

The size, durability and flexibility of the range makes it ideal for use in all types of commercial and residential property including small shops, factories, schools, warehouses, offices and houses in multiple occupation.

Often referred to as 'the installer's choice', easy-to-follow wiring instructions are printed adjacent to the terminals of all variants and a lift-off lid guarantees an easy first fix and straightforward maintenance.

The panel's broad compatibility with virtually all known smoke and heat detector ranges and its ability to interpret a short circuit in any zone(s) as a fire or fault condition make it particularly useful for retro-installations.

An optional head removal facility (which utilises our BF378 range of end-of-line monitoring units) is also available, making the FP fully compliant with the head removal requirements of BS 5839 part 1.

### Key FP features:

- Compatible with Context Plus wireless & wired detectors
- Fully compliant with BS 5839 part 4
- Ultra-bright, long-life LED indicators
- Built-in 24V power supply & battery charger
- Monitoring - PSU, Battery, Sounder & Open & Short circuit
- Two open-collector outputs (Remote & Reset)
- End of line units included
- Multiple indicators

## CFP 2 – 8 Zone LPCB to EN54-2 & -4



### Technical Data

- Mains Supply Voltage: 230VAC +/- 10%, 50/60Hz
- Mains Supply current rating: 350mA max.
- Internal power supply: 19V – 28.5V (27V nominal)
- Total output current limit: 1.5A @ 230Vac
- No of Zone Circuits: 2, 4, or 8.
- No of wireless Smoke Alarms per Zone: 12
- No of Sounder circuits: 4
- Enclosure Dimensions: 380 x 235 x 96mm
- Weight (Without Batteries): 1.75Kg
- IP Rating: IP30
- Enclosure finish: RAL7035 textured
- Construction: Plastic lid & base

## FP 1 – 14 Zone – BS 5839-4



### Technical Data

- Mains Supply Voltage: 230VAC +/- 10%, 50/60Hz
- Internal power supply: 27Vdc nominal
- Total output current limit: 400mA, 800mA, 1.4A, 3A @ 230Vac
- No of Zone Circuits: 1,2,4,6,8,10,12 or 14.
- No of wireless Smoke Alarms per Zone: 12
- No of Sounder circuits if required: 4

# Ei3100RF Series Fire Alarms

## 9v Battery Powered Wireless Alarm

### Ei3100RF Series - Product Description

The Ei3100RF series includes Optical and Ionisation smoke Alarms with integrated wireless communication technology. The series also includes a heat alarm with wireless Communication.

The Alarms are supplied with screw fixings and are simple to install. The battery removed indicator is a very important safety feature of this alarm. If the battery has been removed a pop up warning flag appears and it is not possible to replace the alarm cover until a new battery has been fitted. The Alarm is fitted with a Test button to facilitate frequent testing of your Alarm.

The sounder will automatically stop sounding when smoke particles are no longer present in the chamber or the temperature drops below the heat alarm trigger point. This is useful in the case of nuisance alarms from cooking fumes etc.

When the battery is nearing its end of life the alarm will emit a short beep every 40 seconds to indicate that the battery needs replacing.

Up to 12 Ei3100RF series Alarms can be coded to configure a fire system. When one alarm is activated then all the alarms will sound. The RF Frequency is 868.499 MHz.

#### Ei3100RF Ionisation



BS EN 14604:2005  
KM552831  
0086-CPD-637430

*Integrated Wireless  
Module + Sounder*

#### Key Features

- Built-in Wireless functionality
- 9V Replaceable battery
- Battery removed indicator
- Built-in sounder
- Test Button
- Low battery indication
- Certified to EN14604:2005
- Interconnect up to 12 Alarms
- Dimensions: 145 x 125 x 55mm
- Weight: 240g
- 5 Year Guarantee

#### Ei3103RF Heat



BS5446-2:2003

*Integrated Wireless  
Module + Sounder*

#### Key Features

- Built-in Wireless functionality
- 9V Replaceable battery
- Battery removed indicator
- Built-in sounder
- Test Button
- Low battery indication
- Certified to BS5446-2:2003
- Interconnect up to 12 Alarms
- Dimensions: 145 x 125 x 55mm
- Weight: 240g
- 5 Year Guarantee

#### Ei3105RF Optical



BS EN 14604:2005  
KM552831

*Integrated Wireless  
Module + Sounder*

#### Key Features

- Built-in Wireless functionality
- 9V Replaceable battery
- Battery removed indicator
- Built-in sounder
- Test Button
- Low battery indication
- Certified to EN14604:2005
- Interconnect up to 12 Alarms
- Dimensions: 145 x 125 x 55mm
- Weight: 240g
- 5 Year Guarantee

# Smoke Alarms

## Conventional Wireless

### Ei600RF Series - Product Description

The Ei600RF Series includes Optical and Ionisation smoke Alarms with integrated wireless communication technology. The series also includes a heat alarm with wireless Communication. This will allow the alarms to be wirelessly connected to other Ei Electronics wireless alarms and devices. An interconnected system will enhance early detection and warning of fire.

The Alarms are supplied with screw fixings and simple to install twist on base.

The Alarm is fitted with a large easy to use Test Button to facilitate frequent testing of your Alarm. The Test button can also be used to silence nuisance alarms, e.g. cooking fumes, for a 10 minute period.

The sounder will automatically stop sounding when smoke particles are no longer present in the chamber or the temperature drops below the heat alarm trigger point. This is useful in the case of nuisance alarms from cooking fumes etc.

The Alarms give an audible and visual indication that the battery is low and needs replacing or in the case of 10 year lithium powered unit, the alarm needs replacing.

### Ei605CRF - Optical smoke Alarm Ei603CRF - Heat Alarm



**Integrated Wireless  
Module + Sounder**

#### Key Features

- 9V Alkaline Battery
- Wireless interconnect
- Wireless Remote Control
- Supports Wireless add-on accessories
- VdS Certified to EN14604:2005
- Interconnect up to 12 Alarms
- Dimensions - 115 x 50mm (605CRF)
- Weight - 260g (605CRF)
- Dimensions - 115 x 55mm (603CRF)
- Weight - 205g (603CRF)
- 5 Year Guarantee

### Ei650CRF - Optical smoke Alarm Ei603TYCRF - Heat Alarm



**Integrated Wireless  
Module + Sounder**

#### Key Features

- 10 Year Lithium Battery
- Wireless interconnect
- Wireless Remote Control
- Supports Wireless add-on accessories
- VdS Certified to EN14604:2005
- Interconnect up to 12 Alarms
- Dimensions - 115 x 50mm (650RF)
- Weight - 255g (650RF)
- Dimensions - 115 x 55mm (603TYCRF)
- Weight - 200g (603TYCRF)
- 5 Year Guarantee

# Carbon Monoxide Alarms

## Conventional Wireless

### Ei600RF Series – Product Description

The Carbon Monoxide (CO) Alarms is supplied with a powered-for-life sealed lithium battery and an Ei200MRF wireless module. The Ei208DWRF can be wirelessly interconnected to other Ei Electronics wireless enabled Alarms and devices

Using the unique house code feature, an interconnected system will sound all Alarms when one detects CO.

The memory feature records the last CO alarm level and can be useful to check if CO has been present while the home owner or tenant was absent from the property.

An easy to use Test/Hush button allows the user to check the Alarm. This checks all aspects of the Alarm (sensor, electronics, battery and sounder).

The Alarm has an "End of Life" indicator which will notify the user when the Alarm needs replacing at the end of its 10 year operational life.

### Ei208WRF – Battery Alarm



  
BS EN50291-2: 2010  
BS EN50291-1: 2010  
KM86596


*Integrated Wireless  
Module + Sounder*

#### Key Features

- 10 Year Lithium Battery
- 10 Year Sensor Life
- Memory feature indicates last recorded CO level
- Large easy-to-use test button
- End of life warning
- Interconnect up to 12 Alarms
- RF Frequency - 868.499 MHz
- Dimensions - 120 x 105 x 45mm
- Weight - 180g

### Ei208WRF – Battery Alarm with Display



  
BS EN50291-2: 2010  
BS EN50291-1: 2010  
KM86596

*Integrated Wireless  
Module + Sounder*

#### Key Features

- 10 Year Lithium Battery
- Digital display shows level of CO detected and other warning messages
- 10 Year Sensor Life
- Memory feature indicates last recorded CO level
- Large easy-to-use test button
- End of life warning
- Interconnect up to 12 Alarms
- RF Frequency - 868.499 MHz
- Dimensions - 120 x 105 x 45mm
- Weight - 180g



# Wireless Accessories

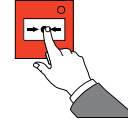
## Ei407 Manual Call Point



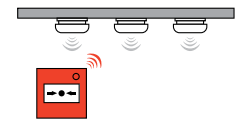
- For use with RadioLINK Fire Alarms
- Manual activation of RadioLINK Alarms
- 10 year sealed-in battery – completely wire free



An occupant sees a fire before the alarms have activated



The occupant presses the black dot on the Ei407

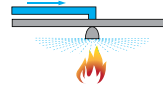


The Ei407 sends a wireless signal All alarms in the property sound

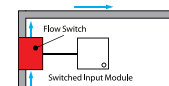
## Ei408 Input



- For use with RadioLINK Fire Alarms
- Activates RadioLINK Alarm Sounders
- Volt-free contact
- 10 year sealed-in battery – completely wire free



A fire starts which activates a sprinkler



The Sprinkler Flow Switch which triggers the Ei408

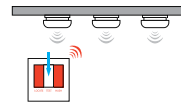


The Ei408 sends a RadioLINK signal to sound all the alarms

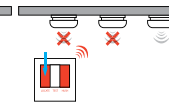
## Ei411 / 412 Alarm Control Switches



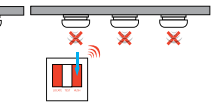
- Test, Locate and Silence from one point
- 10 year sealed-in battery – completely wire free
- Ei411 is a fire alarm control switch
- Ei412 is a Fire + CO Alarm control switch



Pressing the Test Button will test all the alarms in the system (they will all sound)



Press the Locate Button to silence all alarms, except for the one that has been activated

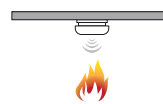


Press the Silence Button to silence all alarms in the system

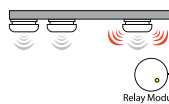
## Ei428 Relay Module



- For use with RadioLINK Fire Alarms
- Activates external device e.g. Siren, Strobe light, etc.
- 200 - 250VAC
- 10 year rechargeable backup



A fire starts & the Smoke/Heat Alarm is triggered



A RadioLINK alarm signal is sent to the Ei428



The Ei428 is activated and the SAB300 Strobe flashes

## Ei450 Alarm Controller



- For use with RadioLINK Fire and CO Alarms
- 10 year sealed-in battery – completely wire free
- One button, three functions:
  - Test, locate Et Silence



Pressing the Button will test all the alarms in the system (they will all sound)



Press the Button to silence all alarms, except for the one that has been activated



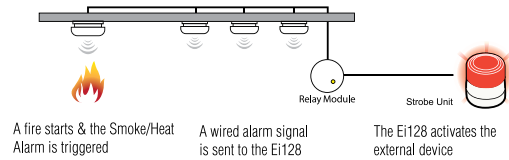
Press the Button to silence the alarms in the system

# Additional Fire Products

## SAB300 Remote Strobe Light.



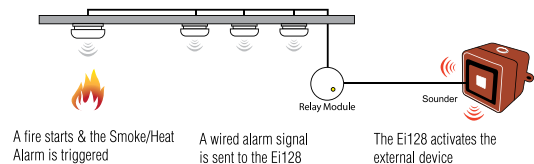
- 200 - 250VAC power supply
- SAB300R - Red Light
- SAB300C - Clear Light
- Flash Rate 0.9Hz
- IP65



## Y03 Remote Siren



- 200 - 250VAC power supply
- Internal or External use
- 500Hz to 2900Hz frequency Range

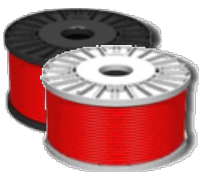


## HFC Clean Agent Gas Suppression Systems



- All Context Plus HFC227ea Extinguishing systems are UL listed
- Effective and fast Suppression against Electrical fire
- Clean Agent leaves no residue to clean up after discharge
- Environmentally friendly
- Acceptable toxicity for use in occupied and concentrated spaces
- Electrically non-conductive
- Engineered and pre-engineered systems are available.

## Fire Resistant Cable



- Low Smoke Zero Halogen emission
- Superb flexibility reduces installation and time costs.
- All in one - easy to strip outer sheet
- 100m, 200m, 500m reels (special lengths made to order).
- LPCB certified to BS and EN Standards
- Manufactured in the UK.

## Conventional & Addressable Fire Systems



- EN54 Panels
- Detectors
- Sounders
- Accessories

# Wireless Operation

Linking smoke alarms with wireless technology simplifies interconnection in properties. There's no tricky wiring runs, no unsightly trunking, and no need for redecorating after you've finished. Instead, our wireless protocol uses Radio Frequency (RF) signals to interconnect alarms. Simply connect the base to the nearest lighting circuit, slide the alarm on, then 'House Code' the units to link them together as a system and prevent them from picking up signals from any units in neighbouring properties.

## Base Features:

- No interconnect cabling between alarms—RF signals are used instead
- Eliminates tricky wiring runs between alarms
- Wireless add on Modules / Bases for Ei Electronic Smoke, Heat and CO Alarms
- Ei168RC wireless base for Ei140RC series alarms.
- Ei100MRF wireless module for Ei160e & 2110e series Alarms
- Ei200MRF wireless module for Ei208W Series CO Alarms
- Ei600MRF wireless module for Ei650 Series 10 year smoke alarms
- Easi-fit design makes installation simple
- 5 year guarantee



**Ei200MRF  
Wireless Module**



**Ei100MRF  
Wireless Module**



**Ei168RC  
Wireless Base**



**Ei600MRF  
Wireless Module**

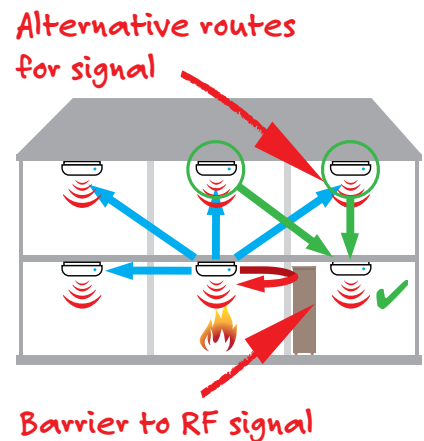
## How does wireless work?

Our wireless protocol uses a 'mesh system', which means that the alarms pass the RF signal between them, repeating the signal on so that all of the alarms sound. This means that there are multiple paths for the RF signal to travel along, so even if there is an obstruction, the signal will be repeated around it.

## How far can the signals travel?

In free air, the signal can travel 100 metres – although it's unlikely that you'll find a building this large! In reality, most domestic buildings should be fine.

The wireless signals will pass through walls and ceilings, but thick stone walls or metal structures can reduce their strength. To avoid such problems our wireless protocol uses a multi-path, multi-repeater proprietary "Mesh" based system.



## Can anything cause interference?

The wireless signals are on the 868MHz RF band which is tightly controlled by standards and regulations. You don't have to worry about Wi-Fi, Bluetooth or car key fobs – none of these work on the same frequency. This wireless protocol has been used for more than 10 years without any interference from other devices.

As part of the installation the Alarms are 'House Coded' together to prevent the system from picking up signals in neighbouring properties. 'House Coding' gives the system its own unique code, so it will only respond to other units in that system.

# Context<sup>®</sup> Plus

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