

Wireless Combined Sounder Detector *Product Datasheet*

Key features

- Dual band 868 MHz operation
- Fire indication LED
- Integrated audio monitoring
- Anti tamper locking mechanism
- Volume control
- FasTest maintenance feature
- Third party EN certified



Product overview

The FireCell Wireless Combined Sounder Detector is quick and easy to install and offers individual addressing at the fire control panel. This device comprising of a detector and wireless base and is also available with an intergated visual indicator.

Features include interchangeable smoke and heat detectors, dual band 868 MHz operation, auto adjusting power output, fire indication LED, integrated audio monitoring, volume control, anti tamper locking mechanism and FasTest detector maintenance feature.

This device is third party EN certified and compatible with the EMS FireCell system, EMS Fusion Radio Loop Module (*RLM*) and EMS Wireless Zone Monitor (*WZM*).

Application (*heat detection*)

Class (EN54-5)	Application temperature (°C)		Static response temperature (°C)		
	Typical	Max	Min	Typical	Max
A1R	25	50	54	57	65
CS	55	80	84	90	100

Technical data

-  -10 to 55 °C
-  3x AA Alkaline batteries (*Panasonic LR6AD Powerline / Varta 4006 Industrial*) & 3x C Alkaline batteries (*Panasonic LR14AD Powerline / Varta 4014 Industrial*)
-  IP23, indoor use only
-  868 MHz
-  0 to 14 dBm (*auto adjusting*)
-  X (*signalling protocol*)
-  146 x 100 mm (Ø x D) (*with multisensor detector*)
-  0.7 kg
-  Up to 87 dB(A) at 1 m (*as dispatched*)
Low setting reduces volume by 13 dB.

Refer to the sounder data document (MK187) for full details.

Free to download from:
www.emsgroup.co.uk

 **CE 10**
0359-CPR-0015 & 0359-CPR-0017

CE 12
0359-CPR-0121

CE 20
0905-CPR-202126

 **EN** EN54-3, EN54-5, EN54-7 & EN54-25

 **FCX-174-001** *Multisensor Detector only*

FCX-175-001 *A1R Heat Detector only*

FCX-176-001 *CS Heat Detector only*

FCX-177-001 *Optical Smoke Detector only*

FCX-191-000 *Wireless Sounder / Detector Base only*

FCX-191-100 *Wireless Sounder / Detector / Clear Visual Indicator Base only*

FCX-191-200 *Wireless Sounder / Detector / Red Visual Indicator Base only*

Wireless Optical Smoke Detector *Product Datasheet*

Key features

- Dual band 868 MHz operation
- Fire indication LED
- Anti tamper locking mechanism
- FasTest maintenance feature
- Third party EN certified



Product overview

The FireCell Wireless Optical Smoke Detector is quick and easy to install and offers individual addressing at the fire control panel. This device comprises of a detector and wireless base.

Features include dual band 868 MHz operation, auto adjusting power output, fire indication LED, anti tamper locking mechanism and the FasTest detector maintenance feature.

This device is third party EN certified and compatible with the EMS FireCell system, EMS Fusion Radio Loop Module (*RLM*) and EMS Wireless Zone Monitor (*WZM*).

Technical data

 -10 to 55 °C	 113 x 76 mm (Ø x D)
 6 x AA Alkaline (<i>Panasonic LR6AD Powerline / Varta 4006 Industrial</i>)	 0.4 kg
 IP23, indoor use only	 CE10 0359-CPR-0017 / 0359-CPR-0041
 868 MHz	 EN EN54-7 & EN54-25
 0 to 14 dBm (<i>auto adjusting</i>)	 FCX-177-001 <i>Optical Smoke Detector only</i>
 X (<i>signalling protocol</i>)	FCX-170-001 <i>Wireless Detector Base only</i>

Wireless Heat Detector *Product Datasheet*

Key features

- Dual band 868 MHz operation
- Fire indication LED
- Anti tamper locking mechanism
- FasTest maintenance feature
- Third party EN certified



Product overview

The FireCell Wireless Heat Detector is quick and easy to install and offers individual addressing at the fire control panel. This device comprises of either an A1R rate of rise heat detector, or a CS fixed temp heat detector and a wireless base.

Features include dual band 868 MHz operation, auto adjusting power output, fire indication LED, anti tamper locking mechanism and the FasTest detector maintenance feature.

This device is third party EN certified and compatible with the EMS FireCell system, EMS Fusion Radio Loop Module (RLM) and EMS Wireless Zone Monitor (WZM).

Application

Class (EN54-5)	Application temperature (°C)		Static response temperature (°C)		
	Typical	Max	Min	Typical	Max
A1R	25	50	54	57	65
CS	55	80	84	90	100

Technical data

-  -10 to 55 °C
-  113 x 76 mm (Ø x D)
-  6 x AA Alkaline (*Panasonic LR6AD Powerline / Varta 4006 Industrial*)
-  0.4 kg
-  IP23, indoor use only
-  **CE10**
0359-CPR-0015 / 0359-CPR-0041
-  868 MHz
-  EN EN54-5 & EN54-25
-  0 to 14 dBm (*auto adjusting*)
-  FCX-175-001 *A1R Heat Detector only*
FCX-176-001 *CS Heat Detector only*
FCX-170-001 *Wireless Detector Base only*
-  X (*signalling protocol*)

Wireless Multisensor Detector *Product Datasheet*

Key features

- Dual band 868 MHz operation
- Fire indication LED
- Anti tamper locking mechanism
- FasTest maintenance feature
- Third party EN certified



Product overview

The FireCell Wireless Multisensor Detector is quick and easy to install and offers individual addressing at the fire control panel. This device comprises of a detector and wireless base.

Features include dual band 868 MHz operation, auto adjusting power output, fire indication LED, anti tamper locking mechanism and the FasTest detector maintenance feature.

This device is third party EN certified and compatible with the EMS FireCell system, EMS Fusion Radio Loop Module (*RLM*) and EMS Wireless Zone Monitor (*WZM*).

Technical data

- | | |
|---|--|
|  -10 to 55 °C |  113 x 92 mm (Ø x D) |
|  6 x AA Alkaline (<i>Panasonic LR6AD Powerline / Varta 4006 Industrial</i>) |  0.45 kg |
|  IP23, indoor use only |  CE10
0359-CPR-0041/0905-CPR-20212 |
|  868 MHz |  EN54-5, EN54-7 & EN54-25 |
|  0 to 14 dBm (<i>auto adjusting</i>) |  FCX-174-001 <i>Multisensor Smoke Detector only</i>
FCX-170-001 <i>Wireless Detector Base only</i> |
|  X (<i>signalling protocol</i>) | |

Wireless Call Point (KAC front)

Product Datasheet

Key features

- Dual band 868 MHz operation
- Fire indication LED
- Resettable element
- Anti tamper locking
- Protective cover
- Third party EN certified



Product overview

The FireCell Wireless Call Point is quick and easy to install and offers individual addressing at the fire control panel.

Features include dual band 868 MHz operation, auto adjusting power output, fire indication LED, resettable element, anti tamper and a test key.

A transparent hinged cover is also included, for protection against accidental operation in busy environments.

This device is third party EN certified and compatible with the EMS FireCell system, EMS Fusion Radio Loop Module (RLM) and EMS Wireless Zone Monitor (WZM).

Technical data

 -10 to 55 °C

 89 x 92 x 70 mm (W x H x D)

 6 x AA Alkaline (*Panasonic LR6AD Powerline / Varta 4006 Industrial*)

 0.4 kg

 IP24, indoor use only

 **CE10**
0359-CPR-0038

 868 MHz

 **EN** EN54-11 & EN54-25

 0 to 14 dBm (*auto adjusting*)

 FC-200-002
Wireless Call Point (KAC Front)

 X (*signalling protocol*)

Wireless Call Point (*Apollo front*)

Product Datasheet

Key features

- Dual band 868 MHz operation
- Fire indication LED
- Resettable element
- Anti tamper locking
- Protective cover
- Third party EN certified



Product overview

The FireCell Wireless Call Point is quick and easy to install and offers individual addressing at the fire control panel.

Features include dual band 868 MHz operation, auto adjusting power output, fire indication LED, resettable element, anti tamper and a test key.

A transparent hinged cover is also included, for protection against accidental operation in busy environments.

This device is third party EN certified and compatible with the EMS FireCell system, EMS Fusion Radio Loop Module (*RLM*) and EMS Wireless Zone Monitor (*WZM*).

Technical data

- | | |
|---|---|
|  -10 to 55 °C |  90 x 98 x 72.5 mm (<i>W x H x D</i>) |
|  6 x AA Alkaline (<i>Panasonic LR6AD Powerline / Varta 4006 Industrial</i>) |  0.35 kg |
|  IP24, indoor use only |  CE19
0359-CPR-00694 |
|  868 MHz |  EN54-11 & EN54-25 |
|  0 to 14 dBm (<i>auto adjusting</i>) |  FC-200-003
<i>Wireless Call Point (Apollo front)</i> |
|  X (<i>signalling protocol</i>) | |

Wireless Sounder *Product Datasheet*

Key features

- Dual band 868 MHz operation
- 32 selectable tones
- Integrated audio monitoring
- Sounder volume control
- Anti tamper locking mechanism
- Third party EN approved



Product overview

The FireCell Wireless Sounder is quick and easy to install, offering individual addressing at the fire control panel. This device comprises of a sounder and a wireless sounder base.

Features include dual band 868 MHz operation, auto adjusting power output, 32 selectable tones, integrated audio monitoring, volume control and anti tamper locking mechanism.

This device is third party EN certified and compatible with the EMS FireCell system, EMS Fusion Radio Loop Module (RLM) and EMS Wireless Zone Monitor (WZM).

Technical data

- | | |
|--|--|
|  -10 to 55 °C |  Up to 99 dB(A) at 1 m (<i>as dispatched</i>) |
|  3x AA Alkaline batteries (<i>Panasonic LR6AD Powerline / Varta 4006 Industrial</i>) & 3x C Alkaline batteries (<i>Panasonic LR14AD Powerline / Varta 4014 Industrial</i>) |  CE 10
0359-CPR-0022 |
|  IP54, indoor use only |  EN54-3 & EN54-25 |
|  868 MHz |  FC-171-001 <i>White Wireless Sounder Base only</i>
FC-171-002 <i>Red Wireless Sounder Base only</i> |
|  0 to 14 dBm (<i>auto adjusting</i>) | FC-172-001 <i>White Sounder only</i>
FC-172-002 <i>Red Sounder only</i> |
|  120 x 125 mm (Ø x D) | FC-173-002 <i>Red Sounder Visual Indicator only</i> |
|  0.65 kg | FC-178-002 <i>Red Visual Indicator only</i> |
|  X (<i>signalling protocol</i>) | |

Wireless Wall Sounder Beacon *Product Datasheet*

Key features

- Dual band 868 MHz operation
- 32 selectable tones
- 0.5 Hz / 1 Hz beacon flash selection
- Integrated audio monitoring
- Volume control
- Anti tamper locking mechanism
- Third party EN certified



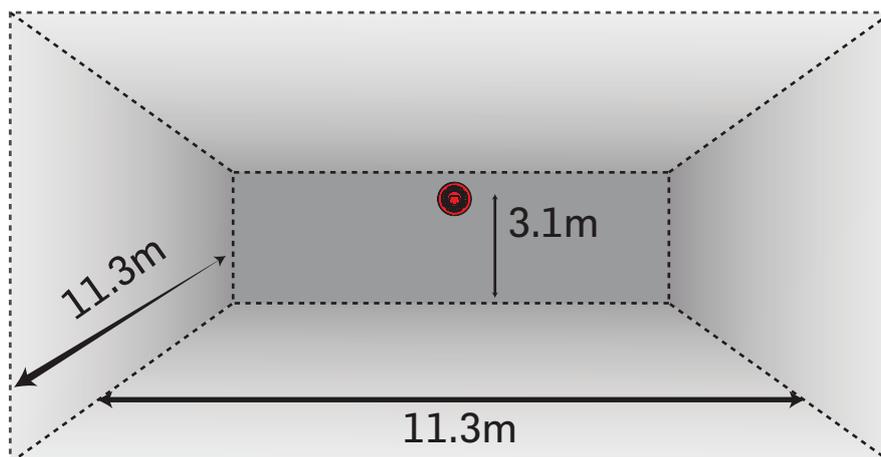
Product overview

The FireCell Wireless Wall Sounder Beacon is quick and easy to install, offering individual addressing at the fire control panel. This device comprises of a sounder beacon and a wireless sounder base.

Features include dual band 868 MHz operation, auto adjusting power output, 32 selectable tones, 0.5 Hz / 1 Hz beacon flash selection, integrated audio monitoring, volume control and anti tamper locking mechanism.

This device is third party EN certified and compatible with the EMS FireCell system, EMS Fusion Radio Loop Module (RLM) and EMS Wireless Zone Monitor (WZM).

Beacon EN54-23 coverage: W-3.1-11.3 / 396 m³



Technical data



-10 to 55 °C



3x AA Alkaline batteries (*Panasonic LR6AD Powerline / Varta 4006 Industrial*) & 3x C Alkaline batteries (*Panasonic LR14AD Powerline / Varta 4014 Industrial*)



IP54, indoor use only



868 MHz



0 to 14 dBm (*auto adjusting*)



X (*signalling protocol*)



120 x 145 mm (\emptyset x D)



0.65 kg



94 to 97 dB(A) at 1 m (*as dispatched*)
Low setting reduces volume by 7 dB.



W-3.1-11.3 / 396 m³
0.5 Hz / 1 Hz (*selectable*)



CE14
0359-CPR-00292



EN54-3, EN54-23 & EN54-25



FC-171-001 *White Wireless Sounder Base only*

FC-171-002 *Red Wireless Sounder Base only*

FC-315-WA1 *White Wall Sounder Beacon only*

FC-315-WA2 *Red Wall Sounder Beacon only*

FC-323-WA1 *White Wall Beacon only*

FC-323-WA2 *Red Wall Beacon only*

Wireless Ceiling Sounder Beacon *Product Datasheet*

Key features

- Dual band 868 MHz operation
- 32 selectable tones
- 0.5 Hz / 1 Hz beacon flash selection
- Integrated audio monitoring
- Volume control
- Anti tamper locking mechanism
- Third party EN certified



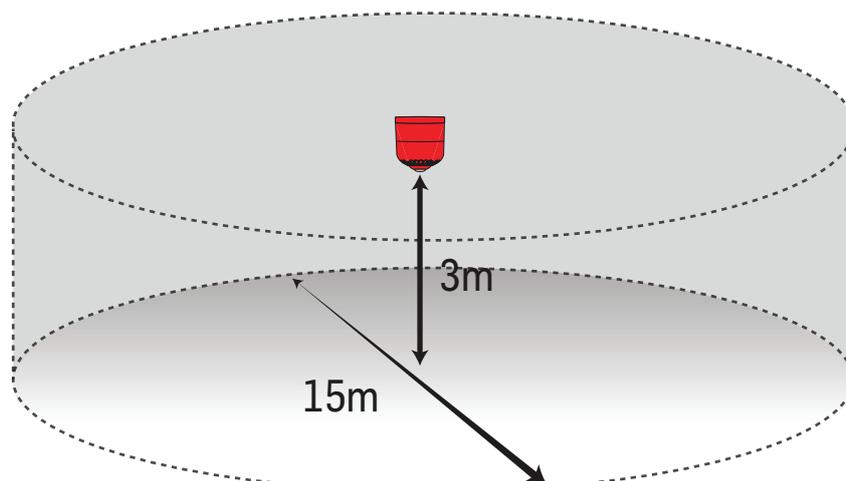
Product overview

The FireCell Wireless Ceiling Sounder Beacon is quick and easy to install, offering individual addressing at the fire control panel. This device comprises of a sounder beacon and a wireless sounder base.

Features include dual band 868 MHz operation, auto adjusting power output, 32 selectable tones, 0.5 Hz / 1 Hz beacon flash selection, integrated audio monitoring, volume control and anti tamper locking mechanism.

This device is third party EN certified and compatible with the EMS FireCell system, EMS Fusion Radio Loop Module (RLM) and EMS Wireless Zone Monitor (WZM).

Beacon EN54-23 coverage: C-3-15 / 337 m³



Technical data



-10 to 55 °C



3x AA Alkaline batteries (*Panasonic LR6AD Powerline / Varta 4006 Industrial*) & 3x C Alkaline batteries (*Panasonic LR14AD Powerline / Varta 4014 Industrial*)



IP54, indoor use only



868 MHz



0 to 14 dBm (*auto adjusting*)



X (*signalling protocol*)



120 x 145 mm (\emptyset x D)



0.65 kg



94 to 97 dB(A) at 1 m (*as dispatched*)
Low setting reduces volume by 7 dB.



C-3-15 / 337 m³
0.5 Hz / 1 Hz (*selectable*)



CE14
0359-CPR-00292



EN54-3, EN54-23 & EN54-25



FC-171-001 *White Wireless Sounder Base only*

FC-171-002 *Red Wireless Sounder Base only*

FC-315-CA1 *White Ceiling Sounder Beacon only*

FC-315-CA2 *Red Ceiling Sounder Beacon only*

FC-323-CA1 *White Ceiling Beacon only*

FC-323-CA2 *Red Ceiling Beacon only*

Wireless Door Control (WDC) *Product Datasheet*

Key features

- Combines proven mechanics with renowned wireless FireCell system operation
- Provides full health monitoring via system integration
- Can be included in phased evacuation plans, via system cause and effects
- Third party EN approved



Product overview

FireCell Wireless Door Control (*WDC*) is quick and easy to install and offers full FireCell system integration. FireCell WDC holds heavy fire doors open, improving building ventilation and automatically closes in the event of a fire.

FireCell WDC includes robust FireCell wireless operation, industry proven mechanics and the ability to individually test each device. Benefits don't stop there as it can also be included within phased evacuation plans via system cause and effects.

FireCell WDC is third party EN certified and is compatible with the EMS FireCell system, EMS Fusion Radio Loop Module (*RLM*) and EMS Wireless Zone Monitor (*WZM*).

Technical data

 -10 to 55 °C (*operating*)
5 to 30 °C (*storage*)

 2 x C alkaline batteries

 868 MHz

 0 to 14 dBm (*auto adjusting*)

 X (*signalling protocol*)

 195 x 205 x 45 mm (*W x H x D*)

 0.5 Kg

 7 (*max. hold open power size*)

 1600 mm (*max. door leaf width*)

 160 kg (*max. door weight*)

 **CE 19**
0359-CPR-00648

 **EN** EN54-25, EN 1155 &
BS7273-4 (*category B*)

 FC-60-2000 (*black*)
FC-60-2010 (*white*)

Input / Output Unit *Product Datasheet*

Key features

- Dual band 868 MHz operation
- Third party EN certified
- 2x supervised inputs
- Optional 230 VAC switching Auxiliary Relay Module available
- 2x voltage free outputs, rated 2A at 24V



Product overview

The FireCell Wireless Input Output unit is quick and easy to install and offers individual addressing at the fire control panel.

Features include; two supervised inputs and two voltage free outputs rated 2A at 24V, whilst using only one address on the system.

This device is third party EN certified and compatible with the EMS FireCell system, EMS Fusion Radio Loop Module (*RLM*) and EMS Wireless Zone Monitor (*WZM*).

A 230 VAC switching Auxiliary Relay Module is also available, for use in conjunction with this device. Refer to doc ref TSD058 for full technical specifications.

Technical data

- | | |
|---|--|
|  -10 to 55 °C |  2x 2 A at 24 VDC rated outputs |
|  6 x AA Alkaline (<i>Panasonic LR6AD Powerline / Varta 4006 Industrial</i>) |  120 x 240 x 60 mm (<i>W x H x D</i>) |
|  IP65, indoor use only |  0.95 kg |
|  868 MHz |  CE10
0359-CPR-0039 |
|  0 to 14 dBm (<i>auto adjusting</i>) |  EN EN54-18 & EN54-25 |
|  X (<i>signalling protocol</i>) |  FC-610-001 Dual I/O Unit |

FC-620-001 Auxiliary Relay Module

Wireless Bell Sounder *Product Datasheet*

Key features

- Dual band 868 MHz operation
- Distinctive bell tone
- Integrated audio monitoring
- Quick installation
- Third party EN approved



Product overview

The Wireless Bell Sounder is quick and easy to install and offers full integration with the FireCell system. The Wireless Bell Sounder is quick to install and offers the distinctive bell tone as an alternative to the standard 32 tone patterns on offer from other FireCell wireless sounders.

The Wireless Bell Sounder offers robust wireless operation, an industry proven bell sounder and 5 year battery life under normal usage.

The Wireless Bell Sounder is third party EN certified and is compatible with the EMS FireCell system, EMS Fusion Radio Loop Module (RLM) and EMS Wireless Zone Monitor (WZM)

Technical data

- | | |
|---|---|
|  -10 to 55 °C |  150 x 347 x 101 mm (W x H x D) |
|  6 x AA Alkaline (<i>Panasonic LR6AD Powerline / Varta 4006 Industrial</i>) |  1.75 Kg |
|  IP55, indoor use only |  97 dB(A) at 1 m |
|  868 MHz |  CE 19
0359-CPR-00667 |
|  0 to 14 dBm (<i>auto adjusting</i>) |  EN54-3 & EN54-25 |
|  X (<i>signalling protocol</i>) |  FC-171-003 <i>Bell Sounder Base only</i>
FC-174-002 <i>Wireless Bell Sounder</i> |

Wireless Remote Indicator Module (RIM) Product Datasheet

Key features

- Dual band 868 MHz operation
- Fire indication LED
- Anti tamper locking mechanism
- Third party EN certified
- Satisfies the requirements of Irish standard IS3218

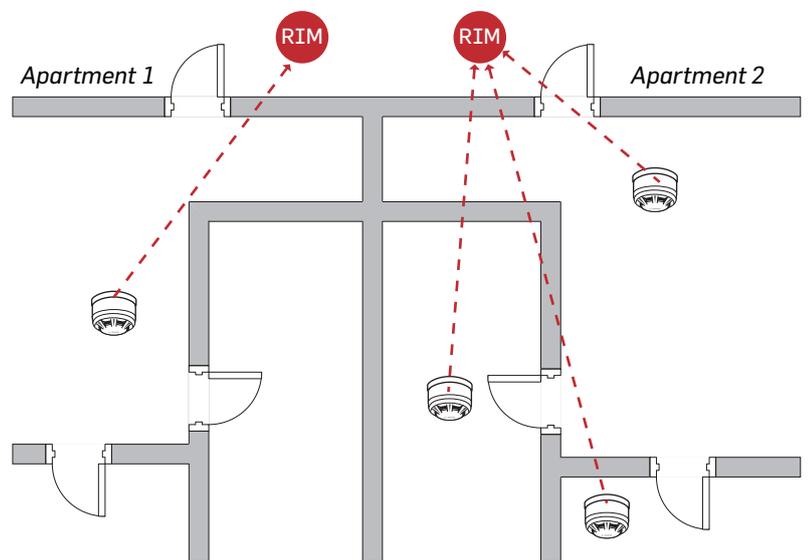


Product overview

The FireCell Wireless Remote Indicator Module (RIM) is quick and easy to install and can be used to remotely indicate a fire event at a location where access is not easily available. This RIM can also be associated with a single detector or a number of detectors.

Combined with detailed Fire Control Panel information, the RIM aids swift fire location, saving valuable time in an emergency.

This device is third party EN certified and is compatible with the EMS FireCell system and EMS Fusion Radio Loop Module (RLM).



Technical data

 -10 to 55 °C

 6 x AA Alkaline (*Panasonic LR6AD Powerline / Varta 4006 Industrial*)

 IP23, indoor use only

 868 MHz

 0 to 14 dBm (*auto adjusting*)

 X (*signalling protocol*)

 113 x 81 mm (\emptyset x D)

 0.4 kg

 **CE10**
0359-CPR-00127

 EN54-25

 FCX-178-001

Radio Hub *Product datasheet*

Key features

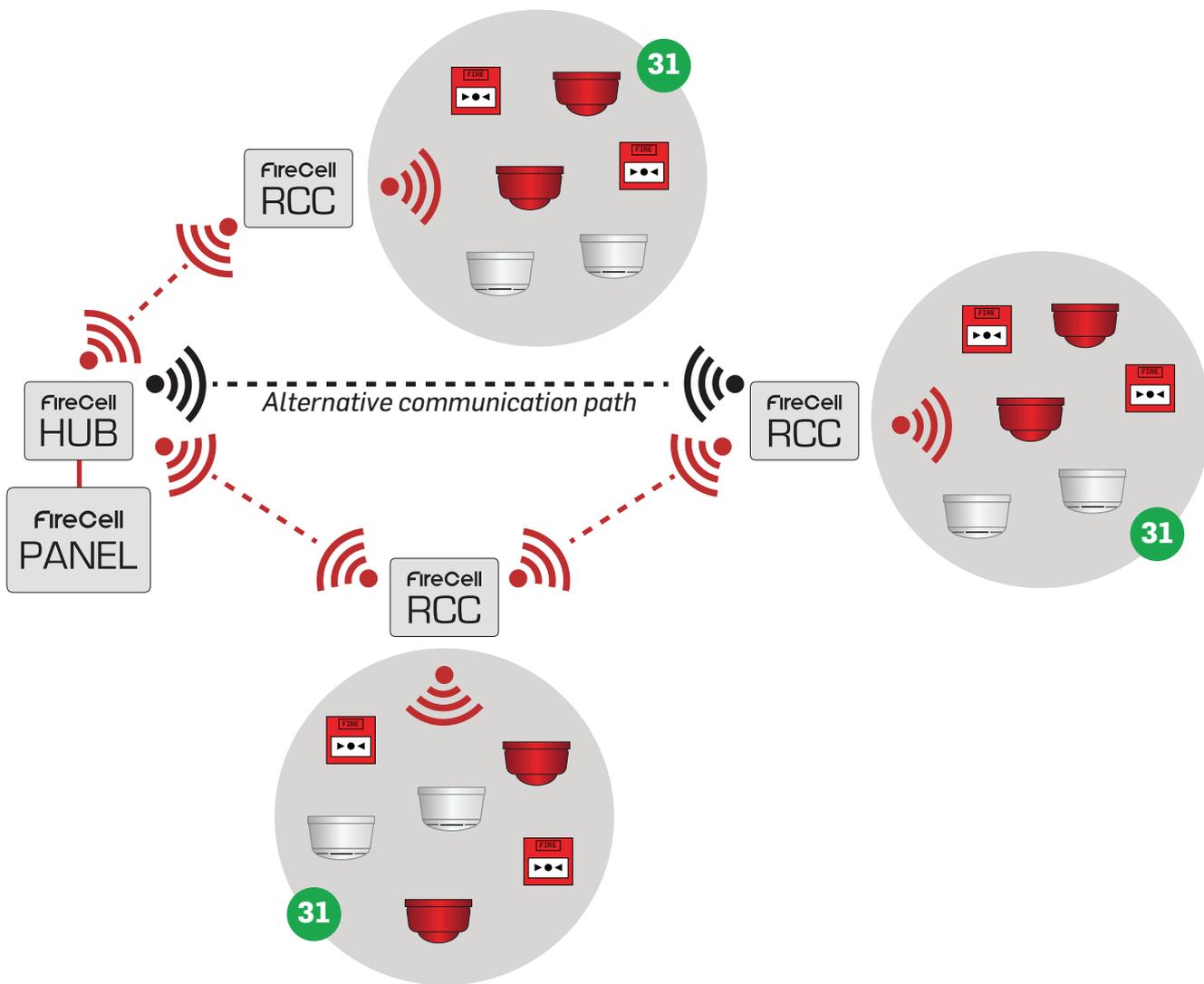
- Smart Cluster Technology
- Internal diversity aerials
- Dual band 868 MHz operation
- 32 radio channel selection
- Up to 31 RCCs
- Up to 504 wireless FireCell devices
(when connected to four loops)
- XP95 loop powered
- Third party EN certified
- Optional external aerials available



Product overview

The FireCell Radio Hub connects to the FireCell fire control panel's XP95 loop. Operating in conjunction with FireCell Radio Cluster Communicators (RCCs), it is possible to create a wireless infrastructure capable of accommodating up to 504 wireless FireCell devices.

This device is third party EN certified, combining diversity aerial methodology, Smart Cluster Technology and 32 channel selection to produce fast and reliable wireless communication.



Technical data

-  -10 to 55 °C
-  17 to 28 VDC
-  Loop 1: 27 mA (*typical*) / 63 mA (*max.*)
Loops 2 to 4: 4 mA (*per each connected loop*)
-  IP54, indoor use only
-  868 MHz
-  14 dBm
-  270 x 205 x 85 mm (*W x H x D*)
-  0.95 kg
-  X (*signalling protocol*)
XP (*panel protocol*)
-  **CE** 10
0359-CPR-0028
-  **EN** EN54-18 & EN54-25
-  **FCX-500-444**

230 VAC Radio Cluster Communicator (RCC)

Product Datasheet

Key features

- Smart Cluster Technology
- Internal diversity aerials
- Dual band 868 MHz operation
- 32 radio channel selection
- Up to 31 FireCell devices per RCC
- 230 VAC operated
- Third party EN certified
- Optional external aerials available

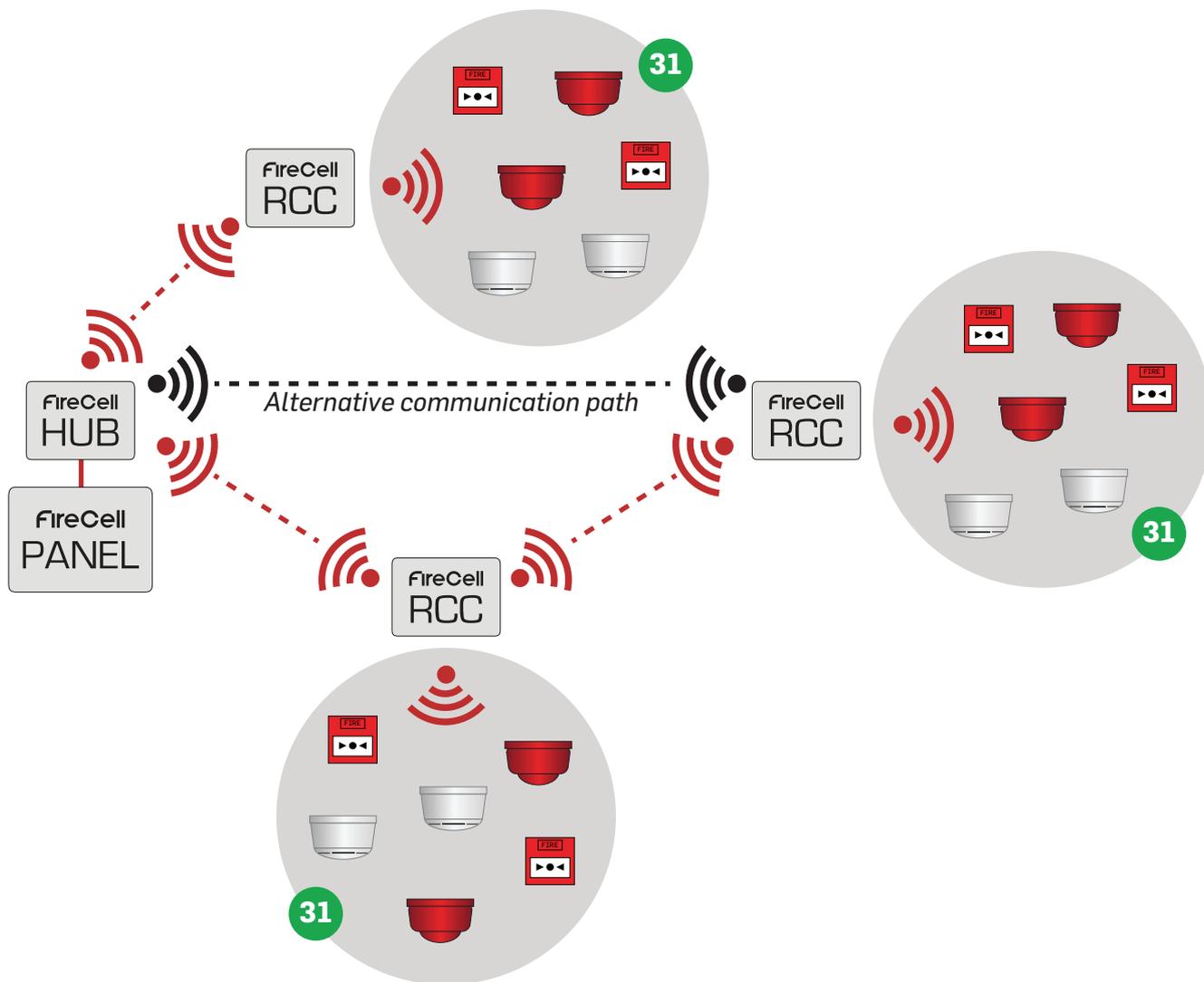


Product overview

The 230 VAC FireCell RCC is a remote transceiver node that works within the FireCell wireless fire system.

The RCC accommodates up to 31 wireless FireCell devices, and can report directly to the Radio Hub or via other RCCs (*up to four hops*), for optimum flexibility and maximum wireless coverage.

This device is third party EN certified, combining diversity aerial methodology, Smart Cluster Technology and 32 channel selection to produce fast and reliable wireless communication.



Technical data

-  -10 to 55°C
-  220 to 240 VAC
-  Yuasa NP4-6 6V 4Ah lead acid
(battery sold seperately)
-  72 hours*
-  44 mA (normal operation)
55.5 mA (mains disconnected)
-  IP54, indoor use only
-  868 MHz
-  14 dBm
-  X (signalling protocol)
-  270 x 205 x 85 mm (W x H x D)
-  1.9 kg (with battery)
1.15 kg (without battery)
-  **CE** 13
0359-CPR-0046
-  **EN** EN54-4, EN54-18 & EN54-25
-  **FC-555-001**
230 VAC RCC c/w PSU
- FC-555-331**
230 VAC RCC c/w remote aerial
facility & PSU

*Typical 5 year battery life based on normal usage. Note; if 72 hours battery standby is required, it is recommended that the battery is replaced every 3 years.

24 VDC Radio Cluster Communicator (RCC)

Product Datasheet

Key features

- Smart Cluster Technology
- Internal diversity aerials
- Dual band 868 MHz operation
- 32 radio channel selection
- Up to 31 FireCell devices per RCC
- 24 VDC operated
- Third party EN certified
- Optional external aerials available

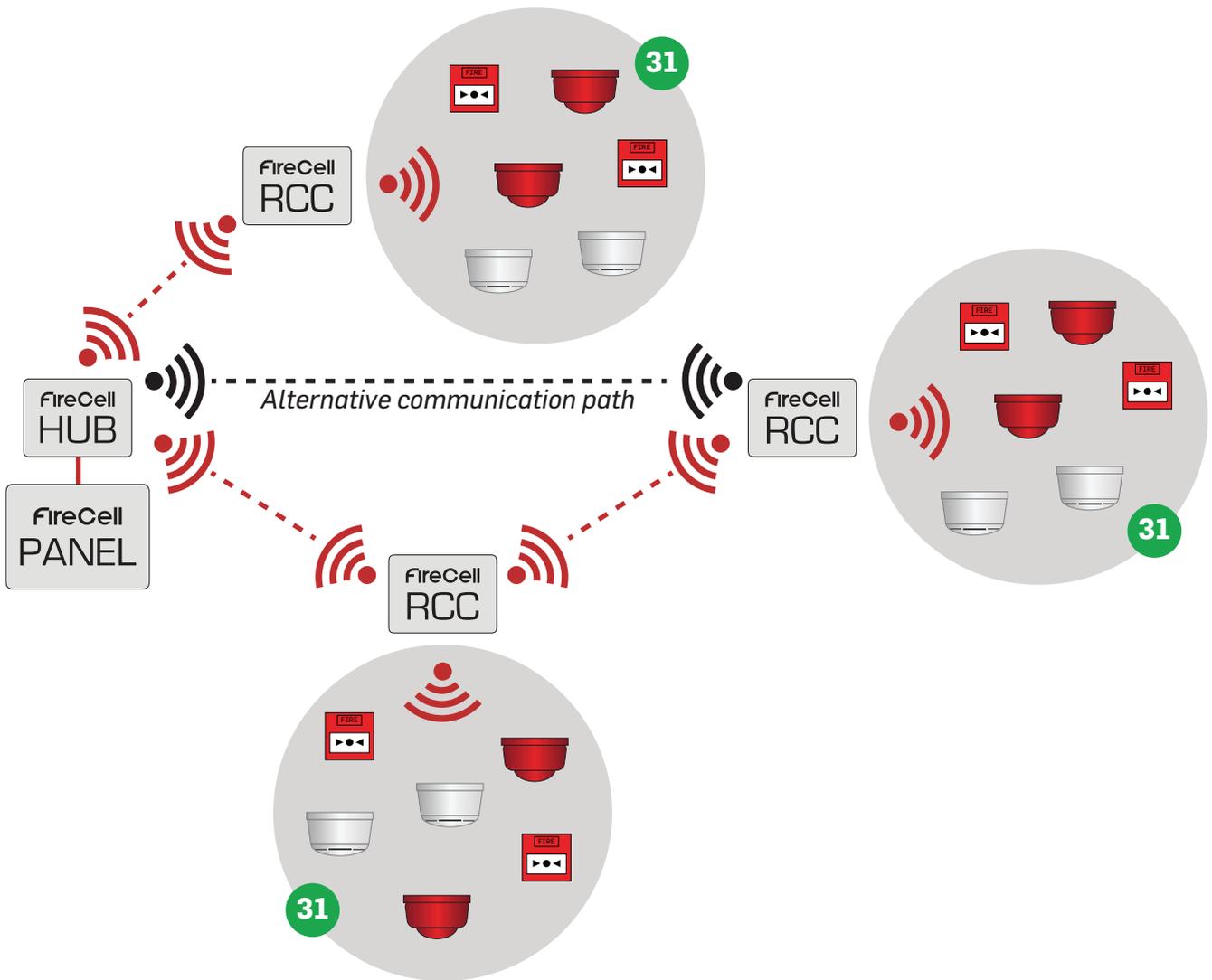


Product overview

The 24 VDC FireCell RCC is a remote transceiver node that works within the FireCell wireless fire system.

The RCC accommodates up to 31 wireless FireCell devices, and can report directly to the Radio Hub or via other RCCs (*up to four hops*), for optimum flexibility and maximum wireless coverage.

This device is third party EN certified, combining diversity aerial methodology, Smart Cluster Technology and 32 channel selection to produce fast and reliable wireless communication.



Technical data

-  -10 to 55°C
-  17 to 28 VDC
-  17 mA at 24 VDC
-  IP54, indoor use only
-  868 MHz
-  14 dBm
-  X (signalling protocol)
-  270 x 205 x 85 mm (W x H x D)
-  0.95 kg
-  0359-CPR-0046
-  **EN** **CE13**
EN54-18 & EN54-25
-  FC-555-024
24 VDC RCC
-  FC-555-324
24 VDC RCC c/w remote aerial facility

Taktis[®] Control Panel *Product Datasheet*

Key features

- Simple and intuitive 7" full colour touch screen display
- Up to 96 zonal LED indicators
- 10,000 event log - filterable and printable
- Configurable via USB port to PC or memory stick
- Powerful and versatile cause & effect programming
- 2 to 8 loops
- Fully networkable
- Integrated power supply
- Third party EN certified



Product overview

The Taktis[®] range of fire detection control panels employ state of the art electronics and software to provide a feature rich, end-user friendly solution for all fire detection and alarm system applications. The unique user interface, based on a 7" colour touch screen display, has been optimised to produce a system that is both powerful and easily understood when it is needed most; in an emergency situation.

The carefully designed software presents concise information on the large display and guides users with clear and unambiguous instructions enabling the system to be controlled in a clear and intuitive manner.

While presenting a simple to understand interface for the fire alarm user, Taktis control panels have a powerful and sophisticated engineering menu structure which caters for most complex configurations and allowing system diagnostic engineering functions to be performed.

Available with 2 loops and upgradeable up to 8 loops using 2 loop cards, Taktis control panels also offer network expansion to accommodate wireless and hybrid fire system installations of all sizes.

Taktis fire control panels can also support loop cards with different sensor protocols enabling maximum system flexibility.

The Taktis fire control panel range is third party EN certified and compatible with the EMS FireCell system and EMS Fusion Radio Loop Module (RLM).

Technical data

-  2 to 8 loop (4 slot); Steel enclosure, 1.2 mm BMT
-  RAL7016
-  2 to 8 loop (4 slot); 420 x 590 x 150 mm (W x H x D)
-  15 kg
-  230 VAC mains supply
-  PSU rating at 24 VDC, 5.25 A (charges up to 26 Ah)
-  2 to 8 loop (4 slot); Up to 26 Ah capacity*
**Refer to the FireCell Current Consumption document (MK153) for battery requirements*
-  Full colour, 7" 800 x 480 LCD with resistive touch screen and automatic backlight dimming
-  4x monitored inputs
3x programmable inputs
Fire routing input
Fault routing input
Extinguisher input
Extinguisher fault input
-  2 to 8 Detection loops; (added 2 at a time, using FC-K758 dual loop cards) - 500 mA each

4x Programmable sounder circuits; each rated at 2.5 A, 24 VDC

2x Auxiliary 24 VDC supplies; fused at 500 milliamps

5x default relays; including Fault, Fire and Alarm
-  XP95 Protocol - can accommodate other protocol cards
-  2x programmable auxiliary serial RS232

Programmable ancillary I/O serial RS485

Programmable fire routing (Ifam) serial RS485
-  USB host port; USB type A

USB device port; USB type B
-  RS485 networked
-  Connection via USB A to B Male USB cable
-  Configuration via Loop Explorer 2 PC configuration software
-  PC Graphics; available upon request
-  0832-CPR-F0912
-  EN54-2 and EN54-4
-  FC-TAA EE2 1110 A1
2 Loop 48 Zone - 5.25A PSU

FC-TAA EE2 1210 A1
2 Loop 96 Zone - 5.25A PSU

FC-K758
Taktis 2 loop card

Syncro AS Control Panel *Product Datasheet*

Key features

- Zonal LED indicators
- Stores 500 last events in event log
- Powerful and versatile cause & effect programming
- Programmable inputs
- Programmable relays
- Programmable sounder circuits
- Up to 126 wireless FireCell devices per loop
- Integrated power supply
- Third party EN certified



Product overview

The FireCell Syncro AS is a versatile open protocol fire control panel, using leading edge microprocessor based electronics, to provide a flexible control system with high reliability and integrity.

Available with one or two detection loops, Syncro AS fire control panels are capable of hosting up to 126 wireless devices per loop. With a potential mix of 252 wireless FireCell and hardwired field devices per panel, FireCell is the perfect wireless and hybrid fire system solution.

Further expansion can be achieved using wireless or hardwired networking to form larger systems, providing a future proof solution for any installation.

Syncro AS is third party EN certified and compatible with the EMS FireCell system and EMS Fusion Radio Loop Module (RLM).

Technical data

-  Steel enclosure, 1.2 mm BMT
-  RAL9001
-  IP30, indoor use only
-  385 x 310 x 90 mm (W x H x D)
-  6 kg (standard panel)
-  230 VAC mains supply
-  Mains supply fuse: 1.6 A
-  PSU DC rating: 24 VDC 3A (Syncro AS)
-  2x 12 V lead acid batteries *
* Refer to the FireCell Current Consumption document (MK153) for battery requirements
-  Remote silence input (SIL); switched -ve
Remote fault input (FLT); switched -ve
Remote reset input (RES); switched -ve
Remote alert input (INT); switched -ve
Remote evacuate input (CNT); switched -ve
-  Detection circuits (loops); 400 mA each
Aux 24 VDC; fused at 500 mA
Fire contact; volt free, 1 A at 30 VDC
Fault contact; volt free, 1 A at 30 VDC
Alarm contact; volt free, 1 A at 30 VDC
2x Programmable relays; volt free, 1 A at 30 VDC
4x Sounder circuits; each fused at 1 A (total load 2 A)
-  XP95 Protocol
-  Serial RS232, 9-pin D-type
-  Serial RS232, 9-pin D-type

-  RS485 networked; up to 64 panels* via fully fault tolerant optional network card.

Radio networked up to 16 panels* via network card & Radio Network Communicators (RNCs).

*** Not including the Syncro AS Lite Panel**

-  Download via FC-000-KEN programming lead
-  Configuration via Loop Explorer software; free to download from www.emsgroup.co.uk
-  PC graphics; available upon request
-  Optional dial up modem for remote diagnostics; available upon request
-  KM 73505
-  EN EN54-2 & EN54-4
-  FC-LA80161M2 (Syncro AS Lite, 1 loop 16 zone)
Note: not expandable
FC-A80161M2 (Syncro AS, 1 loop 16 zone)
FC-A80162M2 (Syncro AS, 2 loop 16 zone)

All panels listed above are surface mounted, complete with enable keyswitch and exclude backup batteries.

Radio Network Communicator (RNC)

Product Datasheet

Key features

- Low current consumption
- Proven technology
- Optional remote aerial connection
- Up to 16 RNCs per network
- 24 VDC powered, from control panel



*FCX-438-001
(RNC for Syncro)*

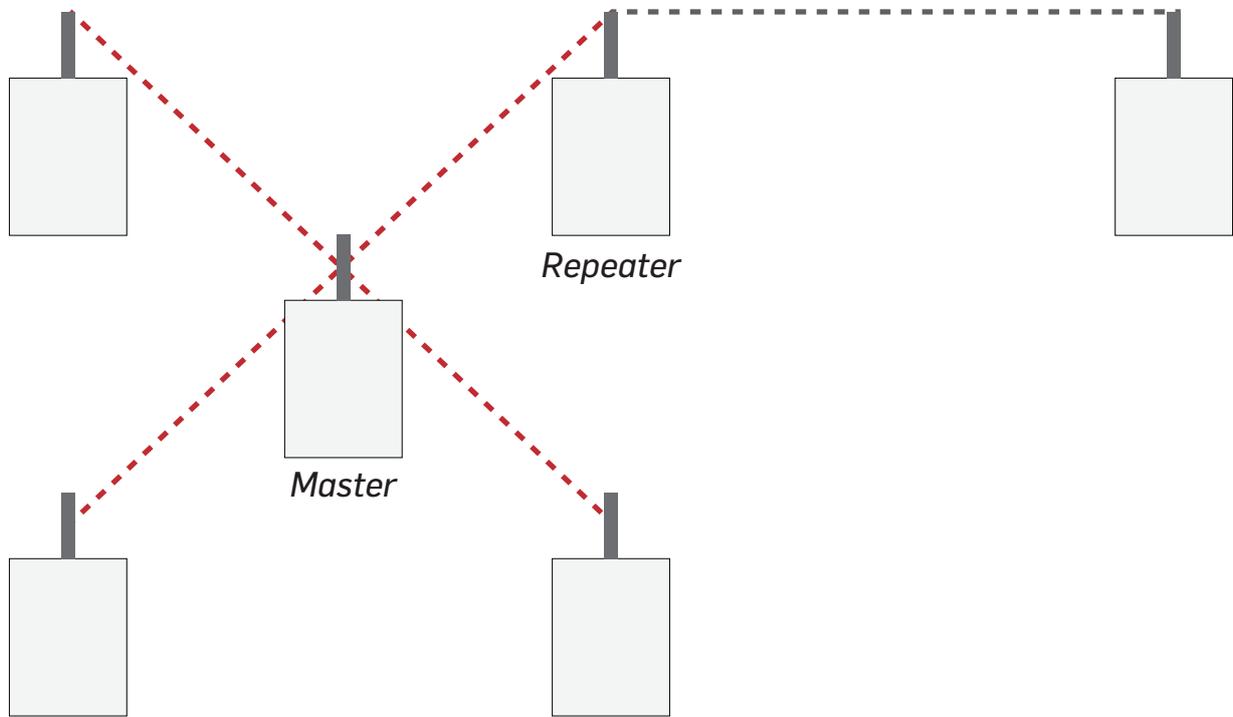
*FC-TAK-438-001
(RNC for Taktis)*

Product overview

FireCell Radio Network Communicators (RNCs) allow wireless 458 MHz networking between FireCell fire control panels and is 24 VDC powered.

All networkable FireCell Syncro AS and Taktis control panels are compatible with FireCell RNCs, with up to 16 RNCs permitted per network. Taktis control panels can not be networked with Syncro AS control panels.

FireCell radio networking is based upon proven reliable EMS technology, with the latest surface mount components and processing technology.



Example 6 Panel RNC network, with 1x RNC programmed as a repeater to extend the wireless coverage

Technical data

-  -10 to 55°C
-  24 VDC
-  24 mA at 24 VDC (*FCX-438-001*)
35 mA at 24 VDC (*FC-TAK-438-001*)
-  IP54, indoor use only
-  458 MHz
-  500 mW
-  156 x 228 x 48 mm (*W x H x D*)
-  0.65 kg
-  Complies with; EN300-220, EN301-489 & EN60950
-  *FCX-438-001*
RNC for Syncro AS
-  *FC-TAK-438-001*
RNC for Taktis

Loop Module *Product Datasheet*

Key features

- Internal diversity aerials
- Dual band 868 MHz operation
- 32 radio channel selection
- 31 wireless FireCell devices per RLM
- Up to five RLMs per loop, subject to cable specification
- XP95 loop powered
- Third party EN certified

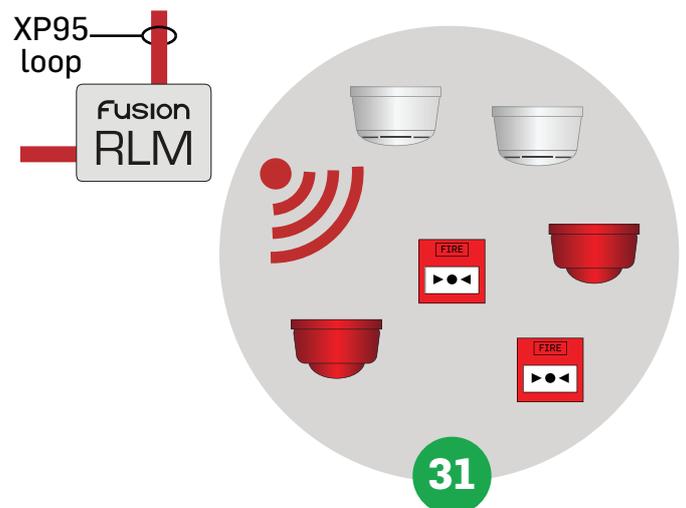


Product overview

The award winning Fusion Radio Loop Module (RLM) connects to the FireCell control panel's XP95 loop and can accommodate up to 31 wireless FireCell devices.

Requiring just 17 mA, up to five Fusion RLMs can be added per loop, subject to cable specification.

This device is third party EN certified, combining diversity aerial methodology and 32 channel selection to produce fast and reliable wireless communication.



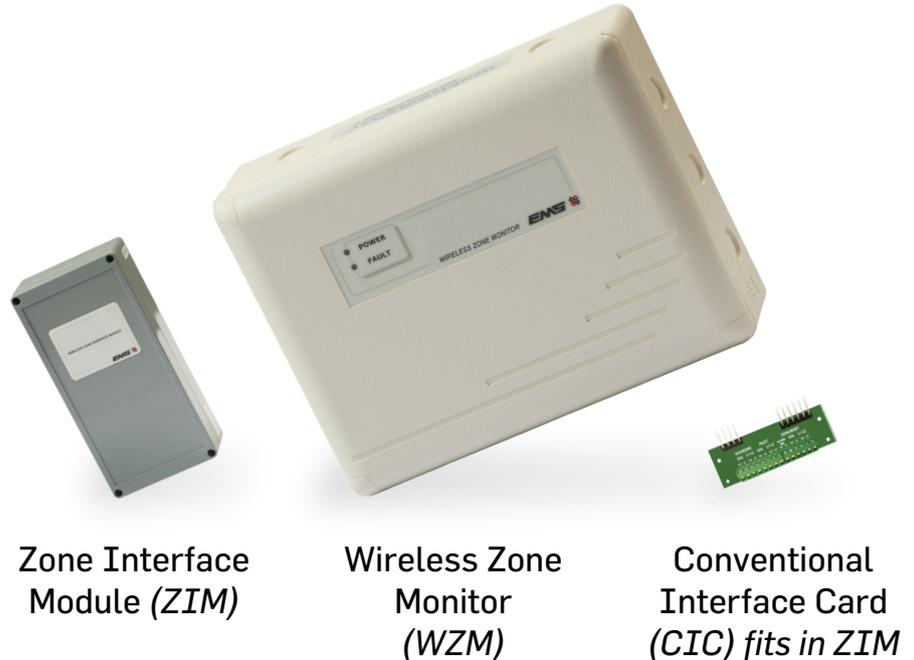
Technical data

 -10 to 55 °C	 270 x 205 x 85 mm (W x H x D)
 17 to 28 VDC	 0.95 kg
 17 mA (<i>typical</i>) 91 mA (<i>max.</i>)	 CE13 0359-CPR-0022
 IP54, indoor use only	 EN EN54-17, EN54-18 & EN54-25
 868 MHz	 FCX-532-001
 14 dBm	
 X (<i>signalling protocol</i>) XP (<i>panel protocol</i>)	

Wireless Zone Monitor (WZM) Product Datasheet

Key features

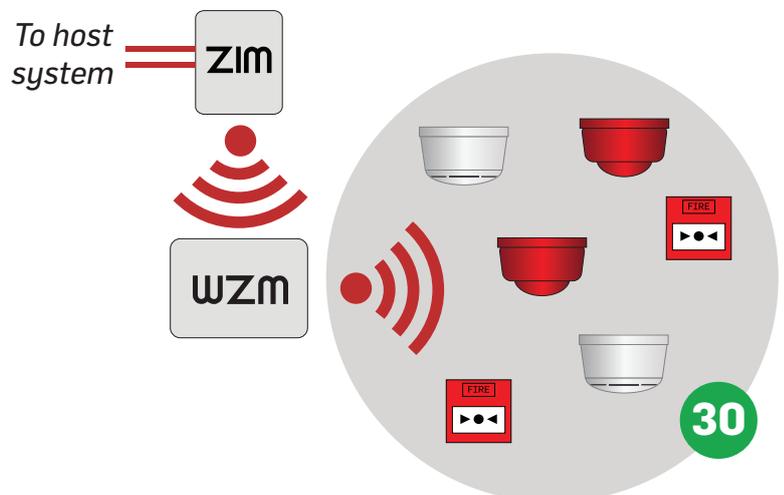
- Internal diversity aerials
- Dual band 868 MHz operation
- 32 radio channel selection
- Connects to addressable or conventional panels
- Add FireCell wireless devices to ANY system (*incl. Smoke / heat detectors, sounders, call points and EN54-23 VADS*)
- 30 wireless FireCell devices per WZM
- Third party EN certified



Product overview

EMS wireless technology can be integrated into any system using the Wireless Zone Monitor (WZM). The WZM supports up to 30 wireless FireCell devices, making it possible to extend into areas where cabling is impractical.

The WZM facilitates the addition of any wireless FireCell device including EN54-23 Visual Alarm Devices (VADs), to existing or new systems. Contact EMS Technical Support today for further guidance on +44 (0) 1227 369570.



Technical data



-10 to 55°C



17 to 28 VDC



17 mA at 24 VDC



IP54 (WZM) / IP65 (ZIM),
indoor use only



868 MHz



14 dBm



X (signalling protocol)



270 x 205 x 85 mm (W x H x D) (WZM)

120 x 240 x 60 mm (W x H x D) (ZIM)



0.95 kg (WZM & ZIM)

0.05 kg (CIC)



CE14
0359-CPR-00436



EN54-18 & EN54-25



EK-10-0001
Kit includes QZM, ZIM & CIC.

See WZM Engineers Guide (*doc ref TSD143*), for connection details.

Wireless Survey Kit *Product Datasheet*

Key features

- Dual band 868 MHz operation
- Easy operation
- Supplied with step by step instructions
- Third party certified to RED & EN60950-1



4x Poles



Device Survey Tool



Signal Surveyor

Product overview

The FireCell Wireless Survey Kit is powerful yet easy to use, providing valuable information needed for both installers and service providers.

With simple but highly intuitive controls, making it easy to use and complete either a wireless integrity test in minutes or a more detailed survey for installation purposes, the red and green indicators give instant information on the signal strength with an LED screen providing detailed signal levels.

The survey kit comprises of the Signal Surveyor as well as the Device Survey Tool which is placed in each device location to confirm the signal is satisfactory. In addition extension poles are included for ceiling mounted device locations and the entire kit is supplied in a robust case for easy storage and transportation.

Technical data

Signal Surveyor:

-  -10 to 55 °C
-  100 to 240 VAC (+/- 10%)
-  Yuasa NP4-6 6V 4Ah lead acid (battery sold seperately)
-  Indoor use only
-  868 MHz
-  0 to 14 dBm (auto adjusting)
-  X (signalling protocol)
-  270 x 205 x 85 mm (W x H x D)
-  1.9 kg

Device Survey Tool:

-  -10 to 55 °C
-  6 x AA Alkaline (Panasonic LR6AD Powerline / Varta 4006 Industrial)
-  Indoor use only
-  868 MHz
-  0 to 14 dBm (auto adjusting)
-  X (signalling protocol)
-  115 x 210 x 60 mm (W x H x D)
-  0.6 kg

General:

-  RED
-  FC-868-SE2
- EN60950-1