EMS

Wireless Fire & Security Solutions

FireCell

Fire Product Showcase

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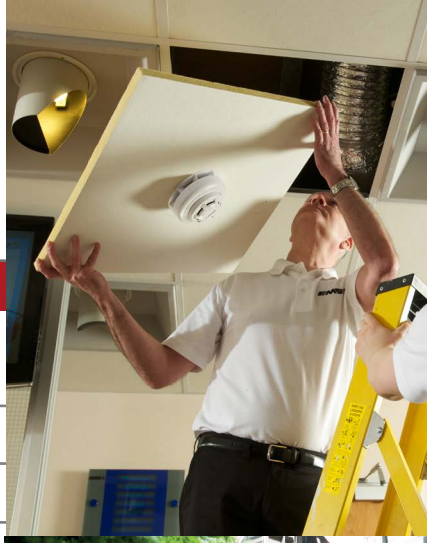
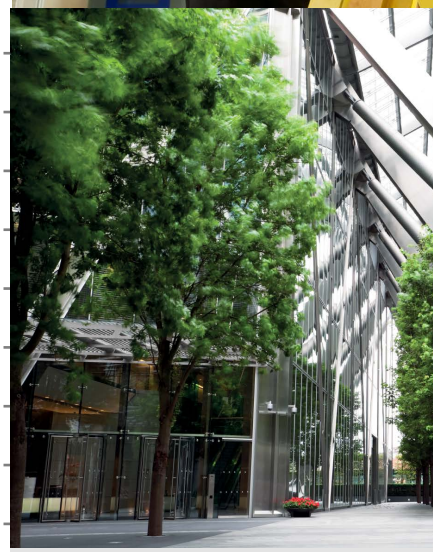




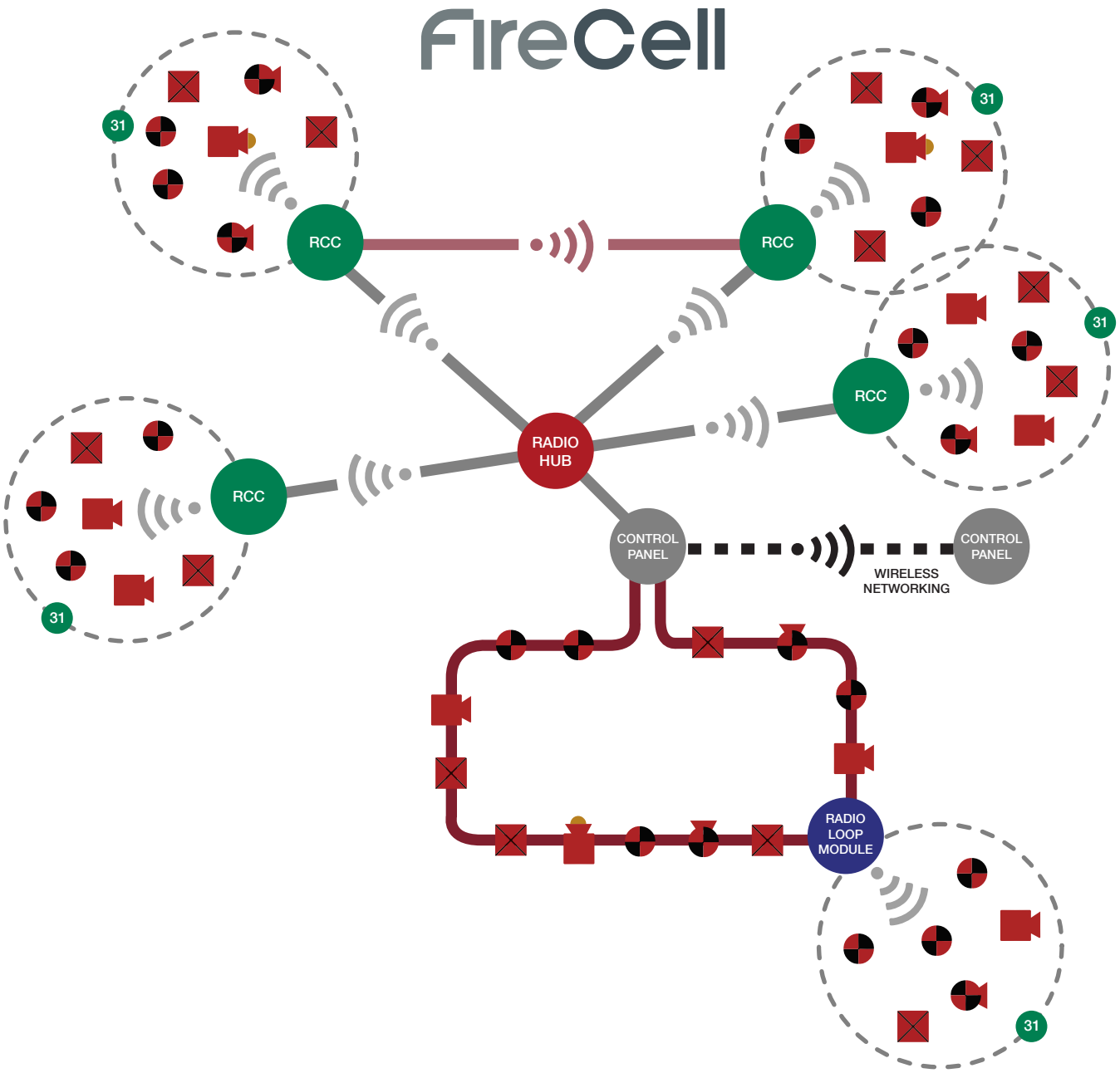
Glossary

CAT	*Category*	**RLM**	*Radio Loop Module*
CIE	*Control Interfacing Equipment*	**SDR**	*Sounder*
C/MOUNT	*Ceiling mounted*	**S/MOUNT**	*Surface mounted*
C/W	*Complete with*	**W/LESS**	*Wireless*
F/MOUNT	*Flush mounted*	**VAD**	*Visual Alarm Device*
HUB	*Radio Hub*	**V2**	*Version 2 (legacy) software*
I/O	*Input/Output*	**V3**	*Version 3 software*
MCP	*Manual Call Point*	**W/**	*With*
PSU	*Power Supply Unit*	**W/MOUNT**	*Wall mounted*
RCC	*Radio Cluster Communicator*	**W/PROOF**	*Waterproof*

Wireless Fire & Security Solutions

EMS has a number of wireless / hybrid solutions available that can be utilised to meet almost any application. All are fully EN54-25 third party approved products meeting all current standards and carry the CE Mark confirming compliance with all applicable EU directives.

EMS wireless solutions are based on 868MHz wireless technology. This catalogue provides specific details with relevant information and data.



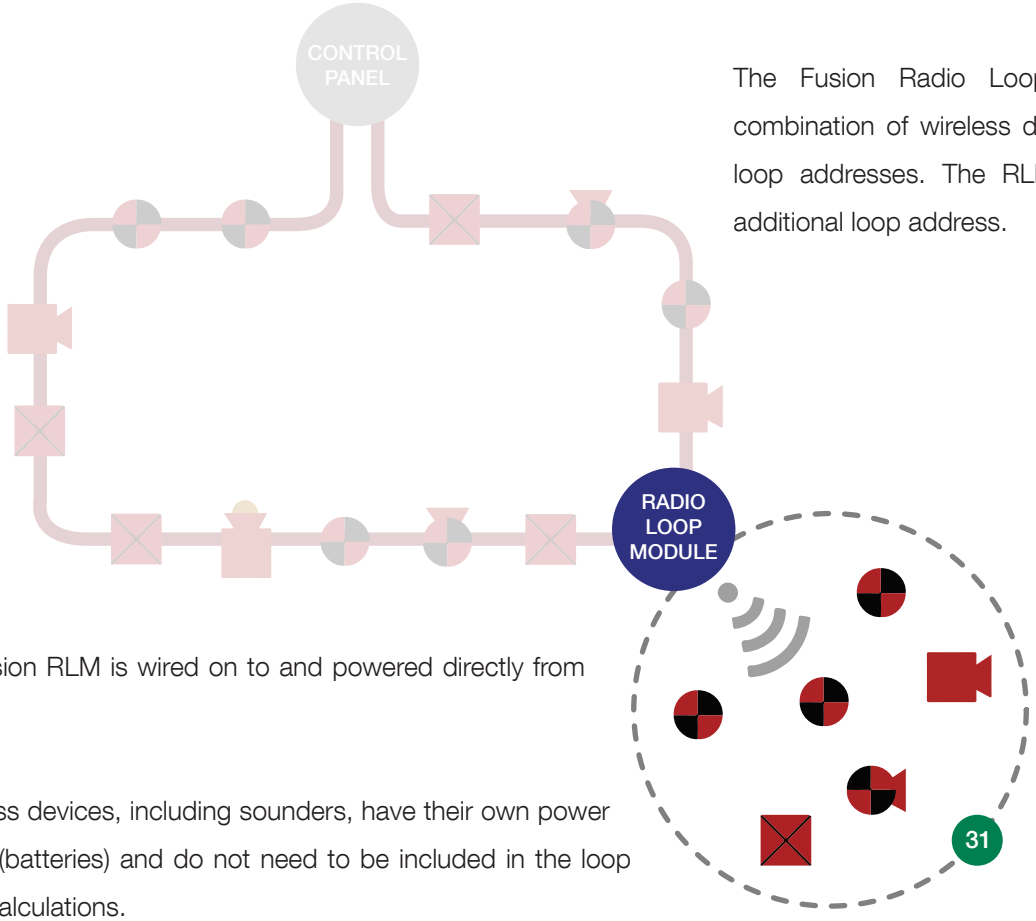
Based on EMS technology FireCell is fully scalable from standalone smaller single loop systems through to multi building networks.

FireCell uses a Hub and Cluster infrastructure and can be either a 100% wireless system or a combination of wired and wireless loops depending on the application. Using a fire resistant cable, the Wireless Hub connects to the loop input/output of the CIE. Each Hub supports up to four wireless loops.

Using this option a system can be configured with both wired and wireless loops and a four loop CIE could, for example, have a single wireless loop with three hard wired loops.

A FireCell system can be single loop or two loop using Syncro AS panels or two to eight loops using Taktis® panels. Each loop supports up to 126 devices per loop. These can be wired or wireless devices depending on the configuration. Each loop must be dedicated as wired or wireless, although Radio Loop Modules (RLMs) can be added to the wired loop for localised wireless devices.

Larger systems, with up to sixteen panels, can be wirelessly networked using the EMS Radio Network Communicator (RNC).



The Fusion Radio Loop Module supports any combination of wireless devices up to a total of 31 loop addresses. The RLM itself will take up one additional loop address.

Each Fusion RLM is wired on to and powered directly from the loop.

All wireless devices, including sounders, have their own power supplies (batteries) and do not need to be included in the loop loading calculations.

Each hard wired loop can support a maximum of five RLMs.

All EMS supplied hardwired devices are for XP95 protocol integration via XPERT 7 bases.

Taktis Control Panel 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.

Each 2 loop module slot can be fitted with a variety of option boards to provide alternative functionality. Modules can be "hot swapped" to minimise system degradation during fitting and all inputs and outputs can contribute to the Taktis, industry-leading cause and effect capability.

By taking advantage of the unique user interface it is possible to further customise the control panel so it can meet specific alternative requirements such as local regional variances, alternative additional functionality or corporate livery. Although this level of customisation is not generally a user feature, the architecture of the Taktis control system makes customisation almost limitless.

Taktis is fully scalable to suit systems of all sizes, with both wired or wireless panel networking.

Taktis Fire Control Panels can also be upgraded from 2 to 8 loops, to accommodate 126 FireCell wireless devices or hardwired devices per loop.

Loop Cards with different sensor protocols are also supported 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).

FC-TAA-EE2-1110-A1

FireCell

TAKTIS CIE 2 LOOP 48ZONE 5.25A PSU

Surface mounted with enable key.
Accommodates up to 8 loops, using FC-K758 2 loop cards.
Standard enclosure - fits up to 26Ah batteries.
Requires 2x batteries - select from pages 30 and 31.

FC-TAA-EE2-1210-A1

FireCell

TAKTIS CIE 2 LOOP 96ZONE 5.25A PSU

Surface mounted with enable key.
Accommodates up to 8 loops, using FC-K758 2 loop cards.
Standard enclosure - fits up to 26Ah batteries.
Requires 2x batteries - select from pages 30 and 31.

FC-TAD-EE0-0010-00

FireCell

TAKTIS VISION NETWORK REPEATER PANEL S/MOUNT

Surface mounted with enable key.
Includes network card.
Requires 24Vdc power.

FC-TAD-EF0-0010-00

FireCell

TAKTIS VISION NETWORK REPEATER PANEL F/MOUNT

Flush mounted with enable key.
Includes network card.
Requires 24Vdc power.

FC-K758

FireCell

TAKTIS 2 LOOP CARD

For use with Taktis Analogue Addressable Fire Panels.

FC-K2008

FireCell

TAKTIS NETWORK MODULE

One required per control panel.

FC-TAK-438-001

FireCell

RADIO NETWORK COMMUNICATOR FOR TAKTIS

For use with FC-K2008.
One required per Taktis control panel.

Syncro AS Control Panel Overview

The FireCell Syncro AS is a versatile range of open protocol Fire Control Panels. With proven and mature software at its heart, the Syncro AS range benefits from many years of development and refinement to provide a fire alarm control panel range of outstanding robustness, versatility and flexibility.

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 for all small to medium installations.

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

Both models are third party EN certified and compatible with the EMS FireCell system and EMS Fusion Radio Loop Module (RLM).

The Syncro AS range supports a selection of serial bus peripherals such as View repeaters, 16 channel I/O boards, Relay boards, Sounder boards and Conventional Zone boards to provide an additional 512, fully programmable points. 16 zonal LED indicators are provided as standard and the panel will support up to 500 network wide software zones.

The long established Loop Explorer configuration utility can be used to configure the Syncro AS range. With the all new Loop Explorer 2 offering a simpler and more intuitive programming configuration tool capable of realising the largest and most complex fire alarm systems with ease.

The elegant and simple construction of the Syncro AS panel range with full mechanical protection of all internal electronics, ensures ease of installation and protection of the vital parts during installation. Housed in installer-friendly enclosures, Syncro AS fire panels combine compact and practical styling with powerful programming and connectivity to accommodate larger systems.

Syncro AS Control Panels

FC-LA80161M2

FireCell

SYNCRO AS LITE PANEL 1 LOOP 16ZONE+ENABLE KEY-NON NETWORK

Surface mounted with enable key.
Not expandable.
Requires 2x 12V 9Ah batteries - see page 31.

FC-A80161M2

FireCell

SYNCRO AS PANEL 1 LOOP 16ZONE+ENABLE KEY

Surface mounted with enable key.
Optional expansion cards available.
Requires 2x 12V 9Ah batteries - see page 31.

FC-A80162M2

FireCell

SYNCRO AS PANEL 2 LOOP 16ZONE+ENABLE KEY

Surface mounted with enable key.
Optional expansion cards available.
Requires 2x 12V 9Ah batteries - see page 31.

Syncro AS Control Panel Packages

FCX-700-440

FireCell

1 LOOP NON NETWORK PANEL & HUB

Surface mounted with enable key.
Not expandable.
Requires 2x 12V 9Ah batteries - see page 31.

FCX-700-441

FireCell

1 LOOP PANEL & HUB

Surface mounted with enable key.
Optional expansion cards available.
Requires 2x 12V 9Ah batteries - see page 31.

FCX-750-001

FireCell

FUSION LITE PACKAGE

Package includes:
1x FC-LA80161M2, 1x FCX-532-001 and 4x wireless devices.
Devices to be advised at point of order.

Choose 4 devices from:

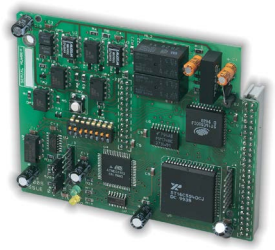
- FC-200-002
- FC-200-003
- FCX-175-001 (includes wireless base)
- FCX-176-001 (includes wireless base)
- FCX-177-001 (includes wireless base)

See pages 18 & 24 for more device information.

Requires 2x 12V 9Ah batteries - see page 31.

FC-K555

FireCell



HARDWIRED NETWORK CARD FOR SYNCRO CONTROL PANELS

One required per control panel.

FCX-438-001

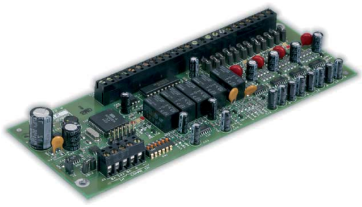
FireCell

RADIO NETWORK COMMUNICATOR

For use with FC-K555.
One required per control panel.

FC-K545

FireCell



SYNCRO I/O 4 WAY CONVENTIONAL DETECTOR ZONE MODULE

For use with FC-K16250M2 I/O enclosure.

FC-K16250M2

FireCell

SYNCRO I/O ENCLOSURE C/W 2.5A PSU FITTED

Complete with 2.5A PSU fitted.
Accommodates 2x backup batteries (max 9Ah).
Other variants available upon request.
Requires 2x batteries - select from pages 30 and 31.

FC-KD2525003

FireCell

2.5A POWER SUPPLY WITH DUAL OUTPUT BOARD

500 (w) x 355 (h) x 117 (d) mm enclosure.
Requires 24Vdc power.
Maximum 2x 12Ah batteries.
Requires 2x batteries - select from pages 30 and 31.

FC-KD2540015

FireCell

5.25A POWER SUPPLY WITH DUAL OUTPUT BOARD

500 (w) x 460 (h) x 190 (d) mm enclosure.
Requires 24Vdc power.
Maximum 2x 26Ah batteries.
Requires 2x batteries - select from pages 30 and 31.

FC-M2FCLGT

FireCell

FLUSH MOUNTING COLLAR FOR SYNCRO AS PANEL

For use with Syncro AS 1 and 2 loop panels.
RAL9001.

Wireless Infrastructure

FCX-500-444-V3

FireCell

W/LESS HUB - 4 LOOP W/ REMOTE AERIAL FACILITY - V3

Remote aerials not included.
Includes latest V3 software.
Loop powered.

FC-555-001-V3

FireCell

W/LESS 230VAC RCC - V3

Includes PSU.
Includes latest V3 software.
Requires 230Vac power.
Requires FC-006-004 6V 4Ah standby battery.

FC-555-331-V3

FireCell

W/LESS 230VAC RCC W/ REMOTE AERIAL FACILITY - V3

Remote aerials not included.
Includes PSU and latest V3 software.
Requires 230Vac power.
Requires FC-006-004 6V 4Ah standby battery.

FC-555-024-V3

FireCell

W/LESS 24VDC RCC - V3

Includes latest V3 software.
Requires 24Vdc power.

FCX-532-001

FireCell

FUSION RADIO LOOP MODULE

Loop powered.
Up to five per loop using FireCell panel, subject to cable specification.

EK-10-0001

FireCell

W/LESS ZONE MONITOR KIT

Requires 24Vdc power.

Includes: 1x EC-13-0000
1x EC-41-0200
1x EC-63-0001

Aerials

FC-868-A03

FireCell

VERTICALLY MOUNTED DIPOLE AERIAL C/W 3M COAX

Includes three metres of URM76 coaxial cable and mounting bracket.
For internal use only.
410mm aerial length.

FC-868-D03

FireCell

W/RESISTANT VERTICALLY MOUNTED DIPOLE AERIAL C/W 3M COAX

Includes three metres of URM76 coaxial cable and mounting bracket.
Weather resistant.
380mm aerial length.

7329

FireCell

UHF DIPOLE UNITY GAIN EXTERNAL AERIAL C/W 5M RG58 CABLE

For use with Radio Network Communicators.
Includes five metres of RG58 cable and mounting bracket.
840mm aerial length.

7325

FireCell

POLE MOUNTING KIT

For use with FireCell aerials.
Offers an alternative to direct wall mounting.

RG213/10

FireCell

10 METRES OF RG213 CABLE C/W BNC CONNECTOR

For use with the 7329 aerial.
Replaces the aerial's existing cable.
Includes BNC/TNC connector.

RG213/30

FireCell

30 METRES OF RG213 CABLE C/W BNC CONNECTOR

For use with the 7329 aerial.
Replaces the aerial's existing cable.
Includes BNC/TNC connector.

Wireless Detectors

FCX-174-001

FireCell

MULTISENSOR SMOKE DETECTOR ONLY

For use with FCX-170-001, FCX-191-000 and FCX-191-200 bases.

FCX-175-001

FireCell

CLASS A1R HEAT DETECTOR ONLY

For use with FCX-170-001, FCX-191-000 and FCX-191-200 bases.

FCX-176-001

FireCell

CLASS CS HEAT DETECTOR ONLY

For use with FCX-170-001, FCX-191-000 and FCX-191-200 bases.

FCX-177-001

FireCell

OPTICAL SMOKE DETECTOR ONLY

For use with FCX-170-001, FCX-191-000 and FCX-191-200 bases.

FCX-170-001

FireCell

W/LESS DETECTOR BASE ONLY

Includes 6x AA batteries.
Select Detectors from page 18.

FCX-191-000

FireCell

W/LESS SDR / DETECTOR BASE ONLY

Includes 3x AA & 3x C batteries.
Select Detectors from page 18.

FCX-191-200

FireCell

W/LESS SDR / RED VISUAL INDICATOR & DETECTOR BASE ONLY

Available with clear Visual Indicator upon request.
Includes 3x AA & 3x C batteries.
Select Detectors from page 18.

FCX-170-101

FireCell

W/LESS DETECTOR BASE C/W REMOTE INDICATOR

Includes wireless base.
Includes wired remote indicator module.
Includes 6x AA batteries.
Select Detectors from page 18.
See page 23 for wireless remote indicator module.

Audio Visual Alarm Devices

FC-171-002

FireCell

W/LESS RED SDR BASE ONLY

For use with all audio/visual devices.
Includes 3x AA and 3x C batteries.

FC-171-001

FireCell

W/LESS WHITE SDR BASE ONLY

For use with all audio/visual devices.
Includes 3x AA and 3x C batteries.

FC-172-002

FireCell

RED SDR ONLY

For use with FC-171-001 and FC-171-002 bases.

FC-172-001

FireCell

WHITE SDR ONLY

For use with FC-171-001 and FC-171-002 bases.

FC-323-CA2

FireCell

RED C/MOUNT BEACON ONLY

Category C-3-15.
For ceiling mounting.
For use with FC-171-001 and FC-171-002 bases.

FC-323-WA2

FireCell

RED W/MOUNT BEACON ONLY

Category W-3.1-11.3.
For wall mounting.
For use with FC-171-001 and FC-171-002 bases.

FC-315-CA2

FireCell

RED C/MOUNT SDR BEACON ONLY

Category C-3-15.
For ceiling mounting.
For use with FC-171-001 and FC-171-002 bases.

FC-315-WA2

FireCell

RED W/MOUNT SDR BEACON ONLY

Category W-3.1-11.3.
For wall mounting.
For use with FC-171-001 and FC-171-002 bases.

FC-323-CA1

FireCell

WHITE C/MOUNT BEACON ONLY

Category C-3-15.
For ceiling mounting.
For use with FC-171-001 and FC-171-002 bases.

FC-323-WA1

FireCell

WHITE W/MOUNT BEACON ONLY

Category W-3.1-11.3.
For wall mounting.
For use with FC-171-001 and FC-171-002 bases.

FC-315-CA1

FireCell

W/LESS WHT C/MOUNT SDR BEACON ONLY

Category C-3-15.
For ceiling mounting.
For use with FC-171-001 and FC-171-002 bases.

FC-315-WA1

FireCell

W/LESS WHT W/MOUNT SDR BEACON ONLY

Category W-3.1-11.3.
For wall mounting.
For use with FC-171-001 and FC-171-002 bases.

FC-178-002

FireCell

RED VISUAL INDICATOR ONLY

For use with FC-171-001 and FC-171-002 bases.
Other colours available upon request.

FC-173-002

FireCell

RED SDR VISUAL INDICATOR ONLY

For use with FC-171-001 and FC-171-002 bases.
Other colours available upon request.

FCX-178-001

FireCell

W/LESS REMOTE INDICATOR MODULE

Includes wireless base.
Includes 6x AA batteries.

Manual Call Points

FC-200-002

FireCell

W/LESS RED MCP (KAC FRONT)

Includes wireless base.
Includes protective cover.
Includes 6x AA batteries.

FC-200-003

FireCell

W/LESS RED MCP (APOLLO FRONT)

Includes wireless base.
Includes protective cover.
Includes 6x AA batteries.

Wireless Door Controllers

FC-60-2000

FireCell

WIRELESS DOOR CONTROL (BLACK)

Includes 2x C batteries.

FC-60-2010

FireCell

WIRELESS DOOR CONTROL (WHITE)

Includes 2x C batteries.

I/O Units

FC-610-001

FireCell

W/LESS DUAL INPUT / OUTPUT UNIT

Includes 6x AA batteries.

FC-620-001

FireCell

AUXILIARY RELAY MODULE

Includes 2x 230Vac 2A switching relays.
For use with FC-610-001.

Survey Equipment

FC-868-SE2

FireCell

FIRECELL W/LESS SURVEY KIT

Includes surveyor unit, device and extension rods.
Comes in convenient carry case.
Training packages available upon request.

FireCell Hybrid (Wired Apollo Devices)

45681-210APO

FireCell

XP95 MOUNTING BASE ONLY

Includes XPERT card.

45681-284APO

FireCell

XP95 ISOLATING BASE ONLY

Includes XPERT card.

45681-277APO

FireCell

XP95/DISCOVERY INTEGRATED BASE SDR WITH ISOLATOR ONLY

Includes XPERT card.

55000-600APO

FireCell

XP95 OPTICAL SMOKE DETECTOR ONLY

Base not included. Select from page 28.

55000-400APO

FireCell

XP95 HEAT DETECTOR ONLY

Base not included. Select from page 28.

58000-600APO

FireCell

DISCOVERY OPTICAL SMOKE DETECTOR ONLY

Base not included. Select from page 28.

55100-908APO

FireCell

XP95 RED S/MOUNT MCP C/W ISOLATOR

Red (Surface).

58100-908APO

FireCell

DISCOVERY RED S/MOUNT MCP C/W ISOLATOR

Red (Surface).

Batteries (for use with FireCell products)

FC-809-000

FireCell

AA 1.5V ALKALINE BATTERY

For use with FireCell wireless devices.

FC-810-000

FireCell

C 1.5V ALKALINE BATTERY

For use with FireCell wireless devices.

FC-006-004

FireCell

SEALED LEAD ACID BATTERY 6V 4AH (FOR RCC)

One per unit.

FC-012-007

FireCell

SEALED LEAD ACID BATTERY 12V 7AH

FC-012-009

FireCell

SEALED LEAD ACID BATTERY 12V 9AH

FC-012-012

FireCell

SEALED LEAD ACID BATTERY 12V 12AH

FC-012-026

FireCell

SEALED LEAD ACID BATTERY 12V 26AH

FC-012-038

FireCell

SEALED LEAD ACID BATTERY 12V 38AH

Spares

FC-S005

FireCell

KENTEC PANEL KEY SET

For use with FireCell Syncro, Syncro AS & Taktis panels.
Includes 801, 901, FH001, KT3001 & CAT30 keys.

FC-60-1000

FireCell

UNIVERSAL PSU (FOR RCC)

Replacement 6Vdc PSU for FireCell RCC.

FCX-500-444

FireCell

W/LESS HUB - 4 LOOP W/ REMOTE AERIAL FACILITY - V2 LEGACY

Remote aerials not included.
For use with legacy systems, with V2 software.

FC-555-001

FireCell

W/LESS 230VAC RCC - V2 LEGACY

Includes PSU.
Requires FC-006-004 6V 4Ah battery.
For use with legacy systems, with V2 software.

FC-555-331

FireCell

W/LESS 230VAC RCC W/ REMOTE AERIAL FACILITY - V2 LEGACY

Remote aerials not included.
Includes PSU.
Requires FC-006-004 6V 4Ah battery.
For use with legacy systems, with V2 software.

FC-555-024

FireCell

W/LESS 24VDC RCC - V2 LEGACY

Requires 24Vdc power.
For use with legacy systems, with V2 software.

Ancillaries and Support

FC-FGCOVER

FireCell

PROTECTIVE COVER FOR W/LESS MCP (KAC FRONT)

For use with FC-200-002.
Replacement cover.
Minimum order quantity of 10.

FC-000-HUB

FireCell

FIRECELL HUB PROGRAMMING LEAD

FC-000-KEN

FireCell

FIRECELL SYNCRO PANEL PROGRAMMING LEAD

FC-179-002

FireCell

WEATHER RESISTANT KIT

For use with FC-171-001 and FC-171-002 wireless bases.

FC-000-PRG

FireCell

FIRECELL SYSTEM PROGRAMMING - BAND 1

For system sell price - up to £10,000.00

FC-001-PRG

FireCell

FIRECELL SYSTEM PROGRAMMING - BAND 2

For system sell price - £10,000.01 to £25,000.00

FC-002-PRG

FireCell

FIRECELL SYSTEM PROGRAMMING - BAND 3

For system sell price - £25,000.01 to £50,000.00

FC-003-PRG

FireCell

FIRECELL SYSTEM PROGRAMMING - BAND 4

For system sell price - £50,000.01 to £75,000.00

FC-004-PRG

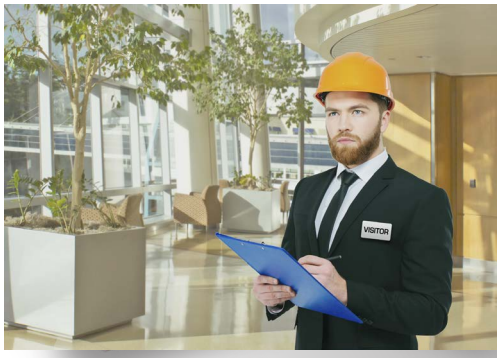
FireCell

FIRECELL SYSTEM PROGRAMMING - BAND 5

For system sell price - £75,000.01 and above

FC-RIT

FireCell

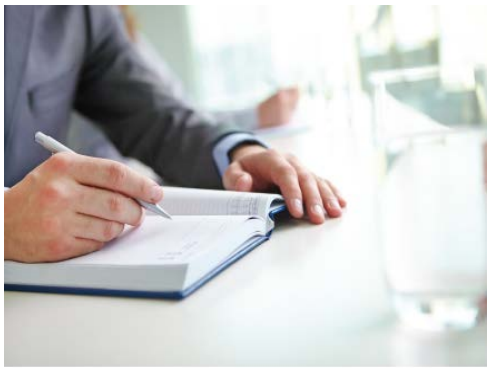


FIRECELL W/LESS COMMS NETWORK TESTING & INSPECTION FULL DAY

Contact us for details on FirePoint 5000 testing & inspection.

FC-TRA-001

FireCell



FIRECELL TRAINING COURSE MODULE 1

(Price per delegate).

FC-TRA-002

FireCell

FIRECELL REFRESHER TRAINING COURSE

(Price per delegate).

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EMS FireCell Fire Product Showcase
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