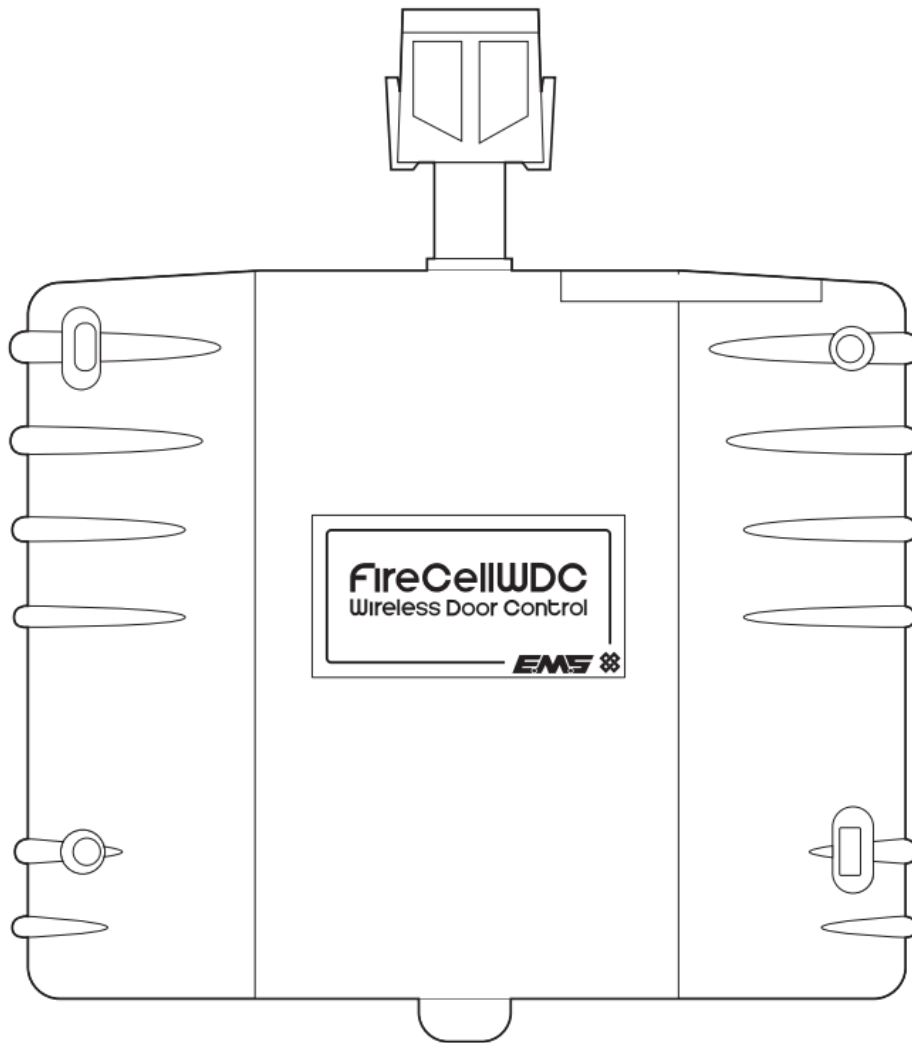




Firecell MK241-99 Wireless Door Control Installation Guide

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Part number and description

FC-60-2000: FireCell Wireless Door Control (Black)

FC-60-2010: FireCell Wireless Door Control (White)

Pre-installation

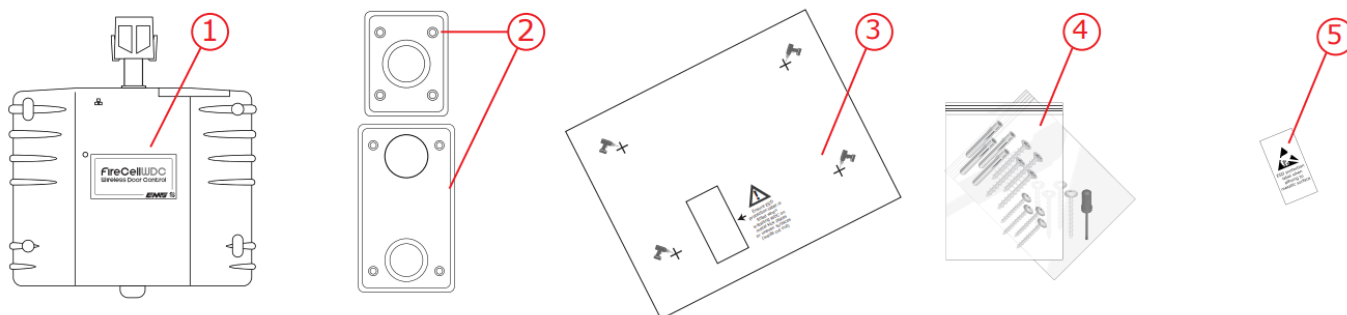


Installation must conform to applicable local installation codes and should only be installed by a fully trained competent person.

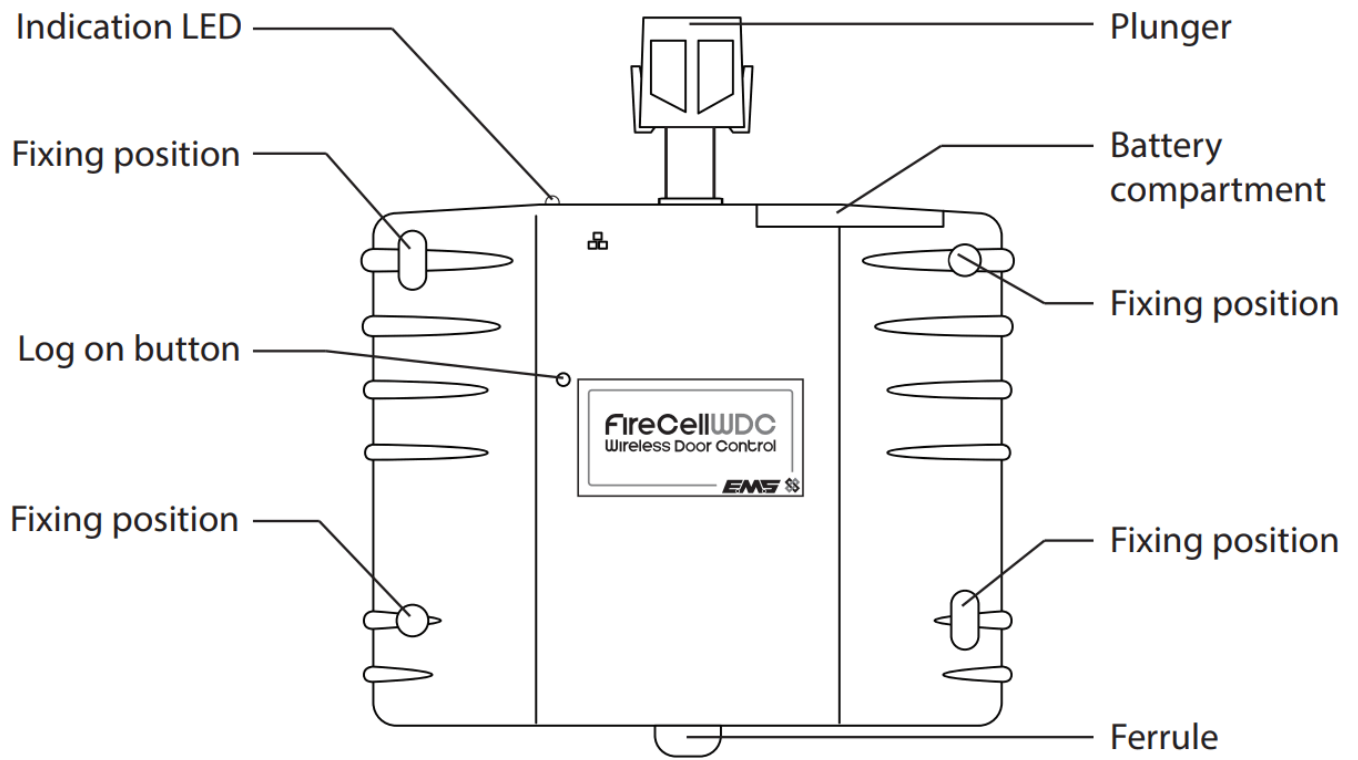
- Ensure that the device is installed as per the site survey.
- Ensure that the device is fitted to the side of the door that shuts against the door frame.
- Check that the fire door is suitable e.g. self-closing, has a surface to fix to, and has appropriate clearance under the door to accommodate the floor plate.
- The supplied ESD protection label must be fitted when installing the Wireless Door Control (WDC) on metal kick plates or uneven surfaces.
- Any door closing devices used in conjunction with the WDC must conform to EN 1154.
- DO NOT press the log-on button on a pre-programmed device, as this will cause communication with the control panel to be lost. Should this happen, delete the device from the system and add it back on.

Components

1. FireCell WDC
2. Small & large floor plates
3. Fixing template (MK255)
4. Fixings
5. ESD protection label



Equipment familiarisation

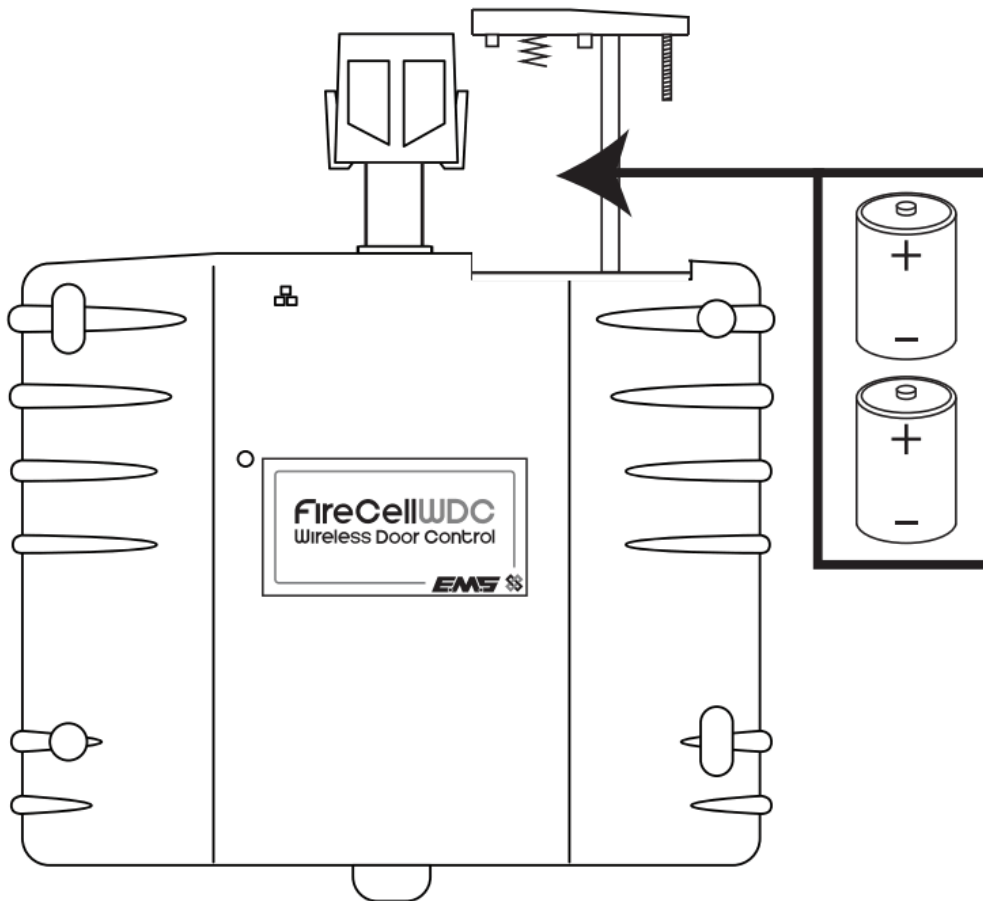


Insert batteries

- When fitting / replacing batteries; observe correct polarity, using only specified batteries.



Note; upon first power up the device will initiate a startup sequence, denoted by a series of low-pitched beeps and motor operations. This sequence will take approximately 15 seconds and concludes with three low-pitched beeps. Should the sequence close with a mix of high and low-pitched beeps, refer to page 13.



Add to the system – unprogrammed systems only







Skip this step If the device has been supplied as part of a pre-programmed system, as this will cause communication with the control panel to be lost. Should this happen, delete the device from the system and add it back on.



The device's loop address is configured within the menu structure of the radio hub. It is recommended to configure the device to the system prior to installation.

Note; devices can alternatively be added to the system after installation. If this method is to be taken, it is recommended to note the device's ident number at this stage. Skip this section and refer to the 'Post Installation Configuration section on page 10 for details on the device's ident location.

Note; if programming the FireCell WDC to a Fusion Loop Module, refer to the Fusion Loop Module Engineers Guide (TSD062) for programming details.

To add devices by logging on (pre-installation);

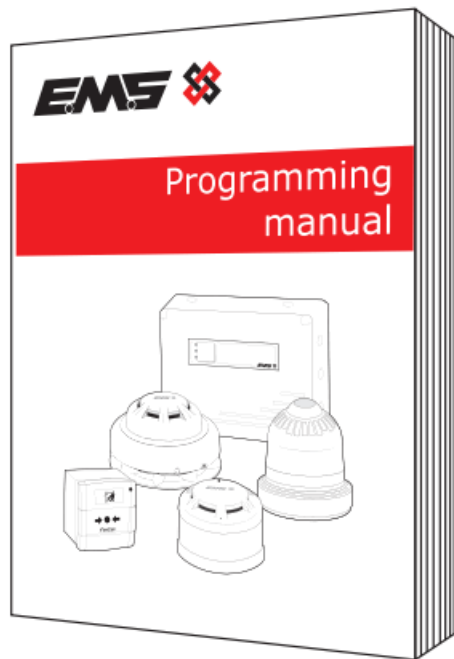
From Front Display  Add New Device Select Desired RCC 01  Set Loop 1 .  Addr 003  Add

By Log On  Press Dev Log On 'press the devices log on the button, followed by Add Dev 03456 Y? 
New Addr L1 A003.



To Exit

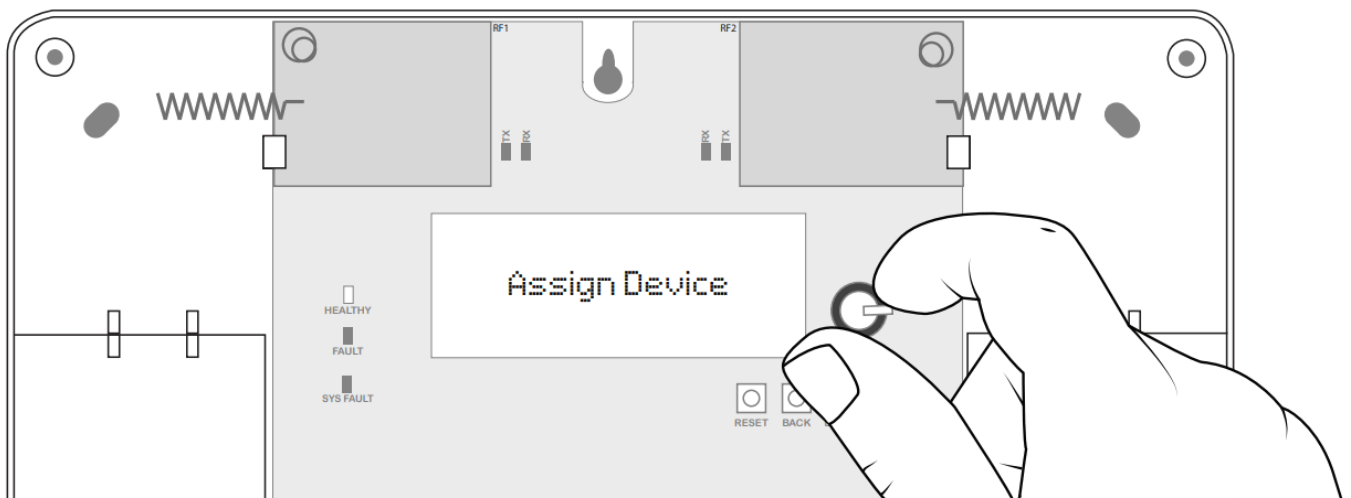
The device has now been added to the Radio Hub and should be installed in its location. For further details, refer to the programming manual (MK98) for full programming information.






Free to download from www.emsgroup.co.uk

Note: the device can also be programmed utilizing the control panel's cause and effects, as part of the building's evacuation plan.

Assign device



Newly added devices must now be assigned to the system.

From Unassigned Dev (once complete)  Assign Device  Assign All  Dev 000 of 001 changing to Done 001 of 001



To Exit



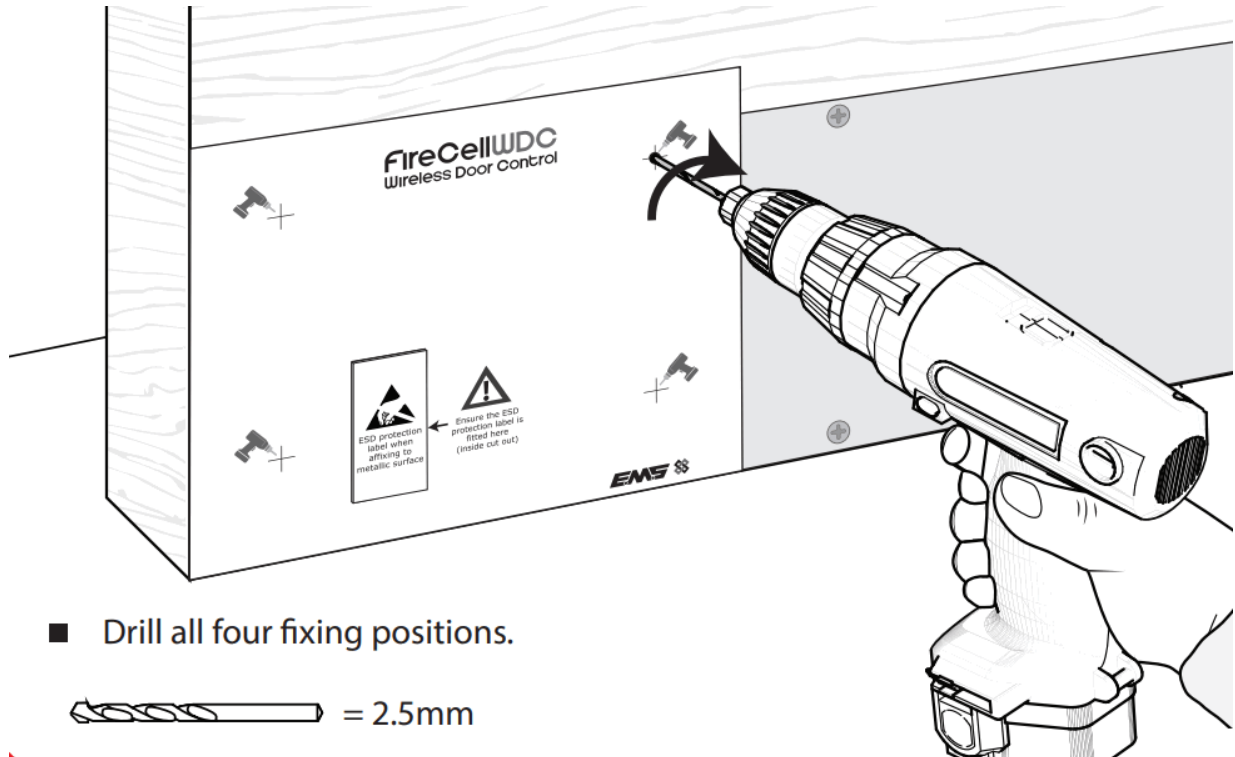
Note: the device must now also be added and configured on the control panel. Refer to the FireCell Programming Guide (MK98) for details.

Position template against the door

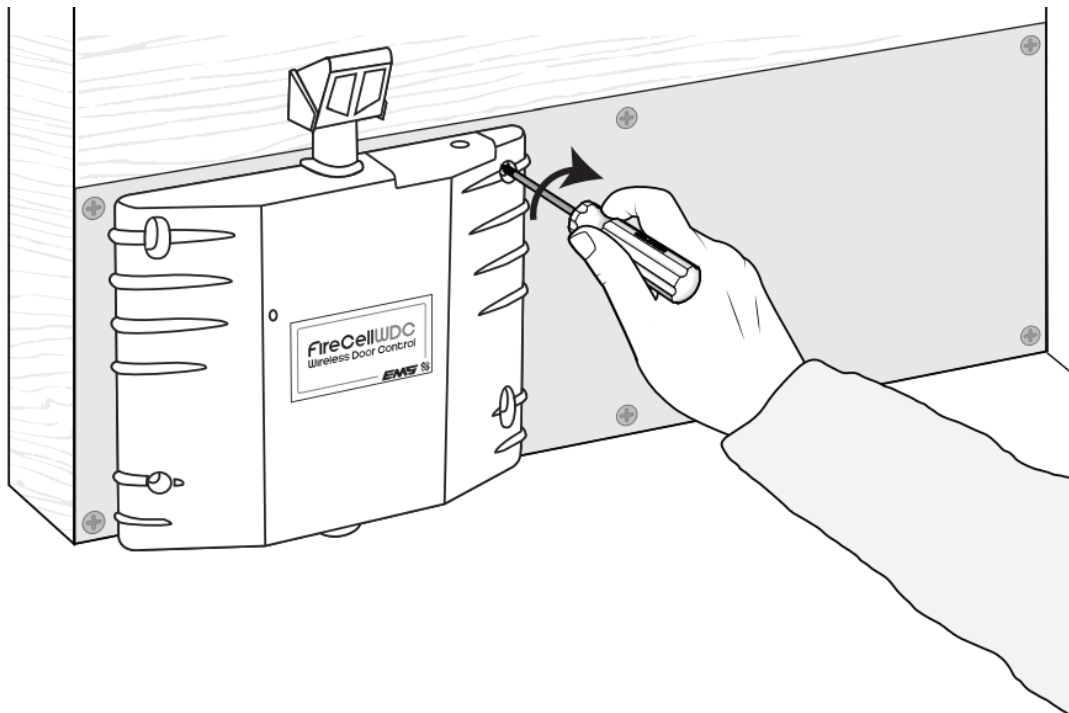


If the device is to be fitted to a metal surface, e.g. a metal kick plate, the ESD protection label must be fitted. Simply affix the label inside the fixing template cut out, onto the metal surface.

Drill fixing positions

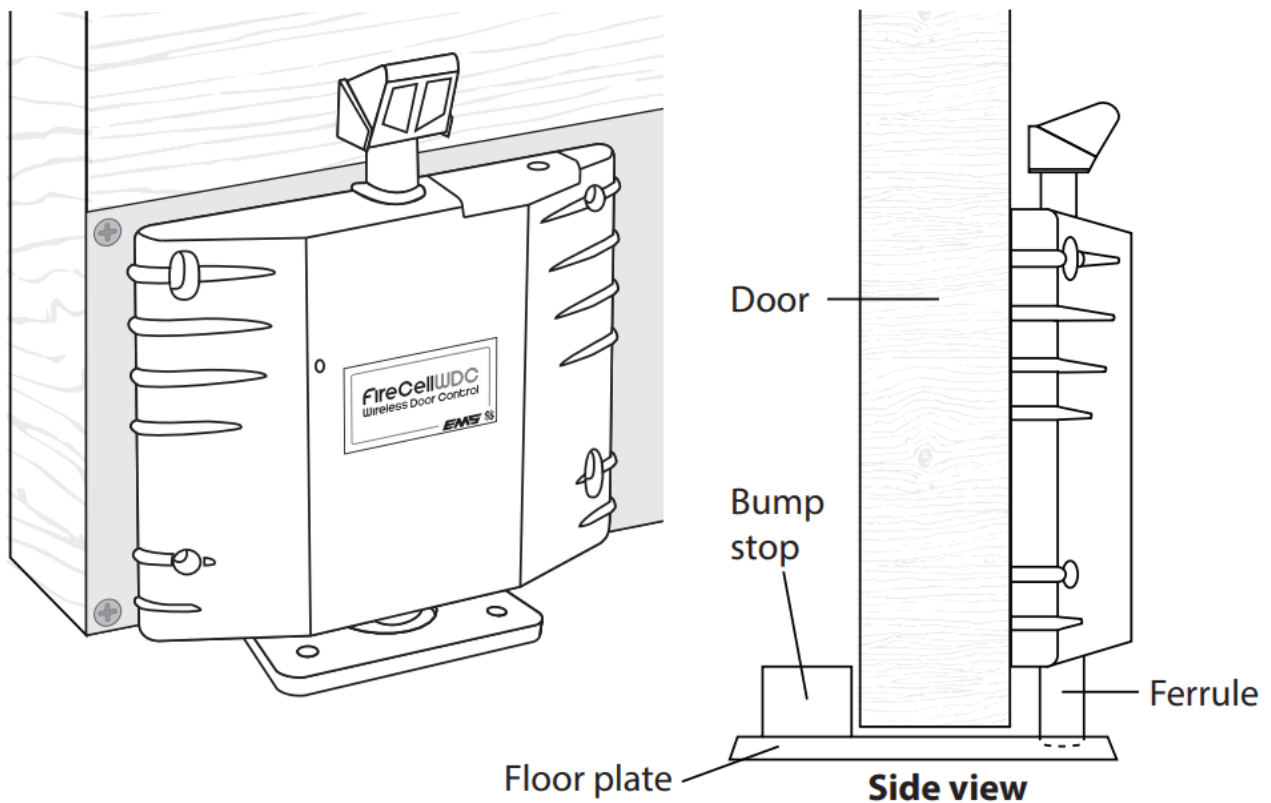


Fix unit to the door



- Use all four fixing positions.
- Use supplied fixing screws.

Position floor plate

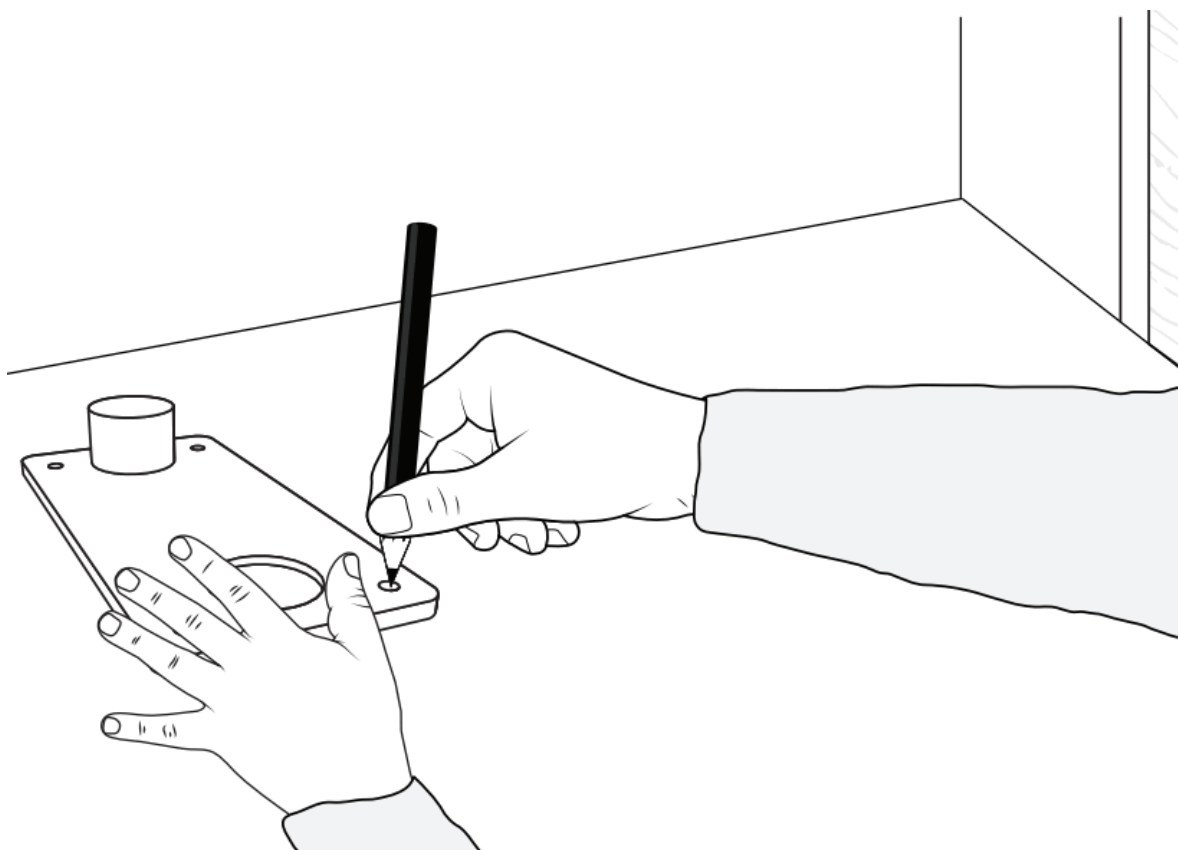


Mark floor plate fixing positions

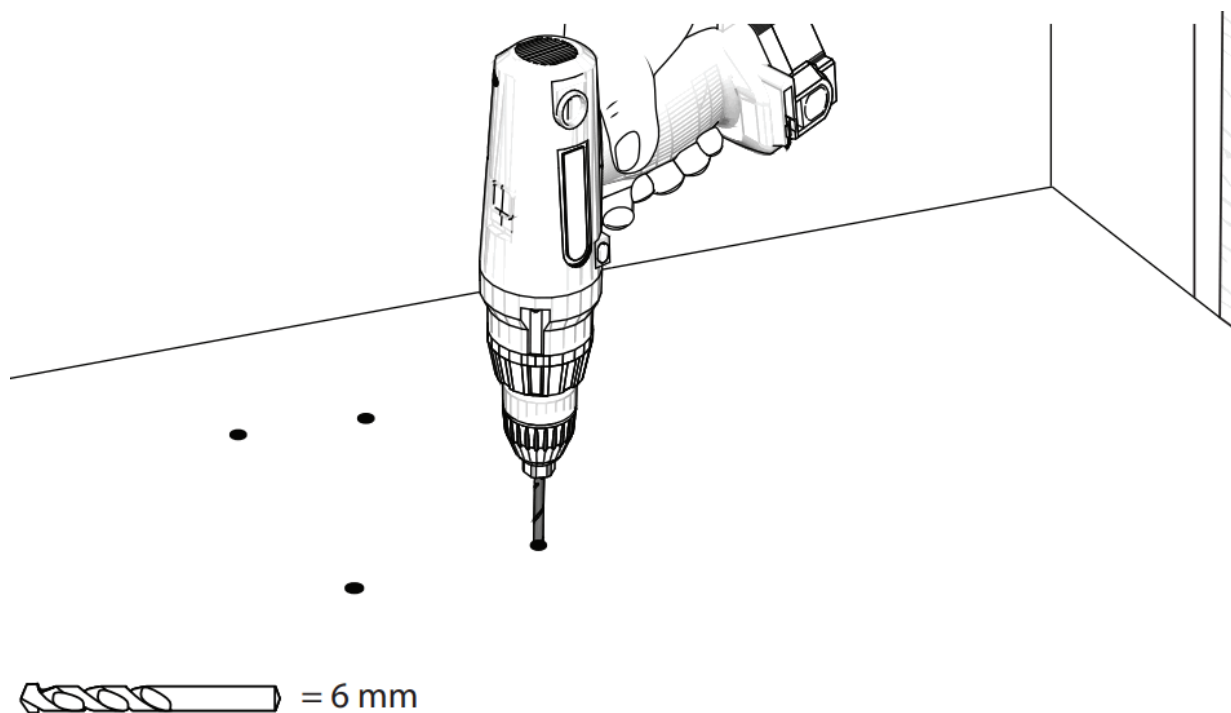
- Mark all four fixing positions.



Use a small floor plate, if a bump stop creates a trip hazard



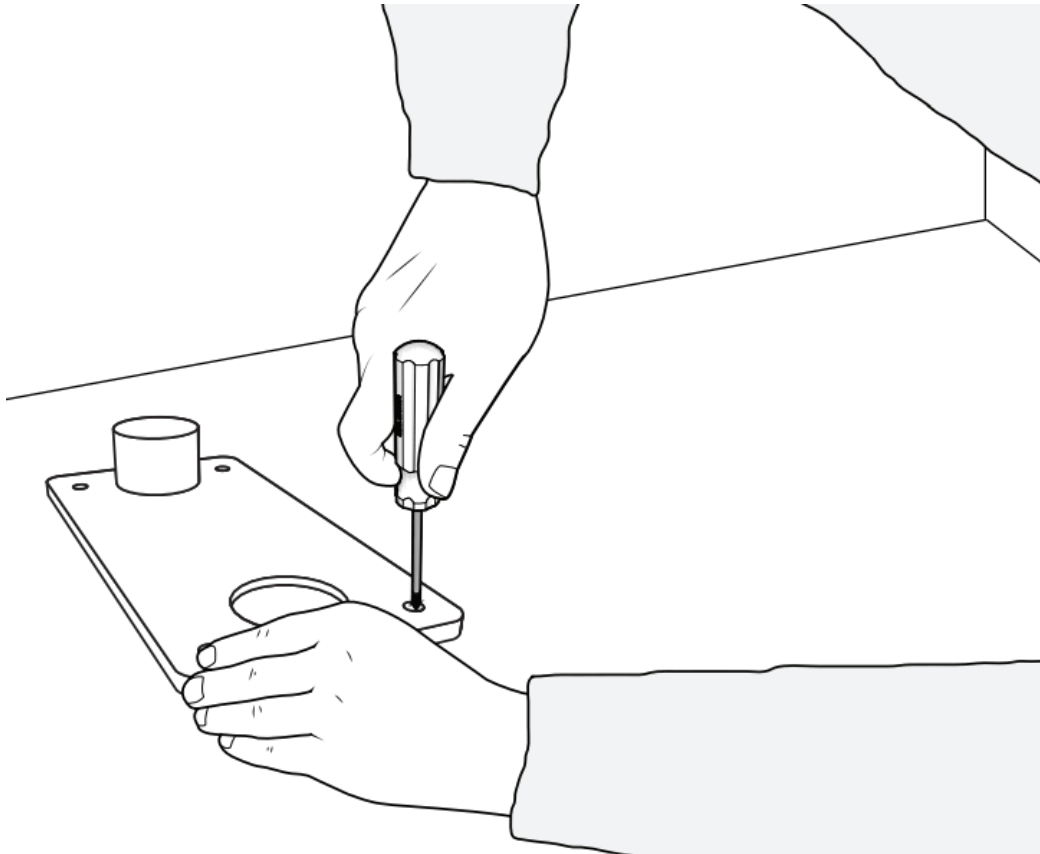
Drill floor plate fixing positions



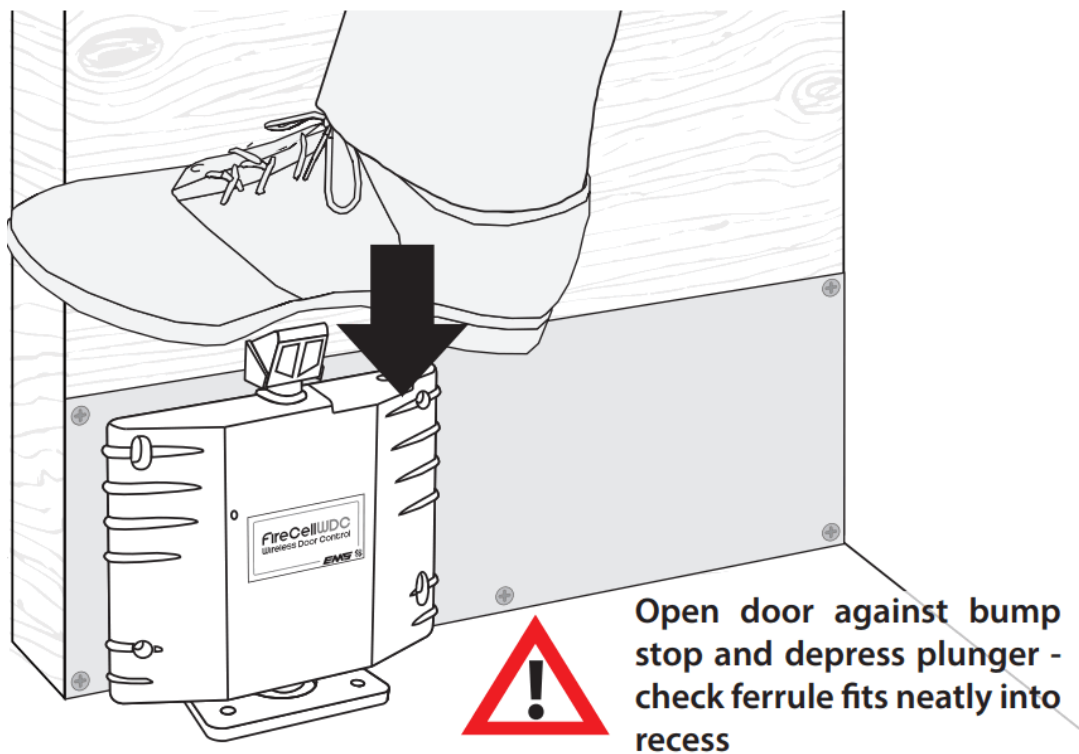
Before drilling, check the locations of water pipes, gas pipes & electrical cables

Fix floor plate to the floor

- Use all four fixing holes.
- Use supplied fixing screws.



Open the fire door & depress the plunger

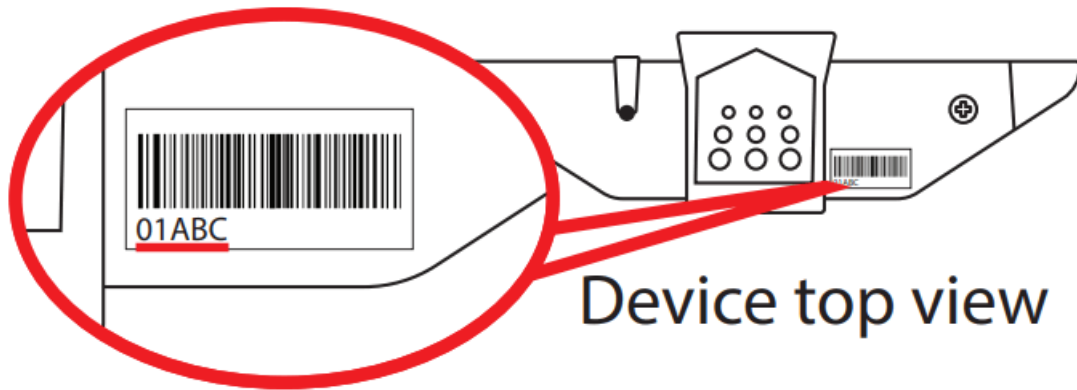











Post-installation configuration



Skip this step if the device has already been configured to the system

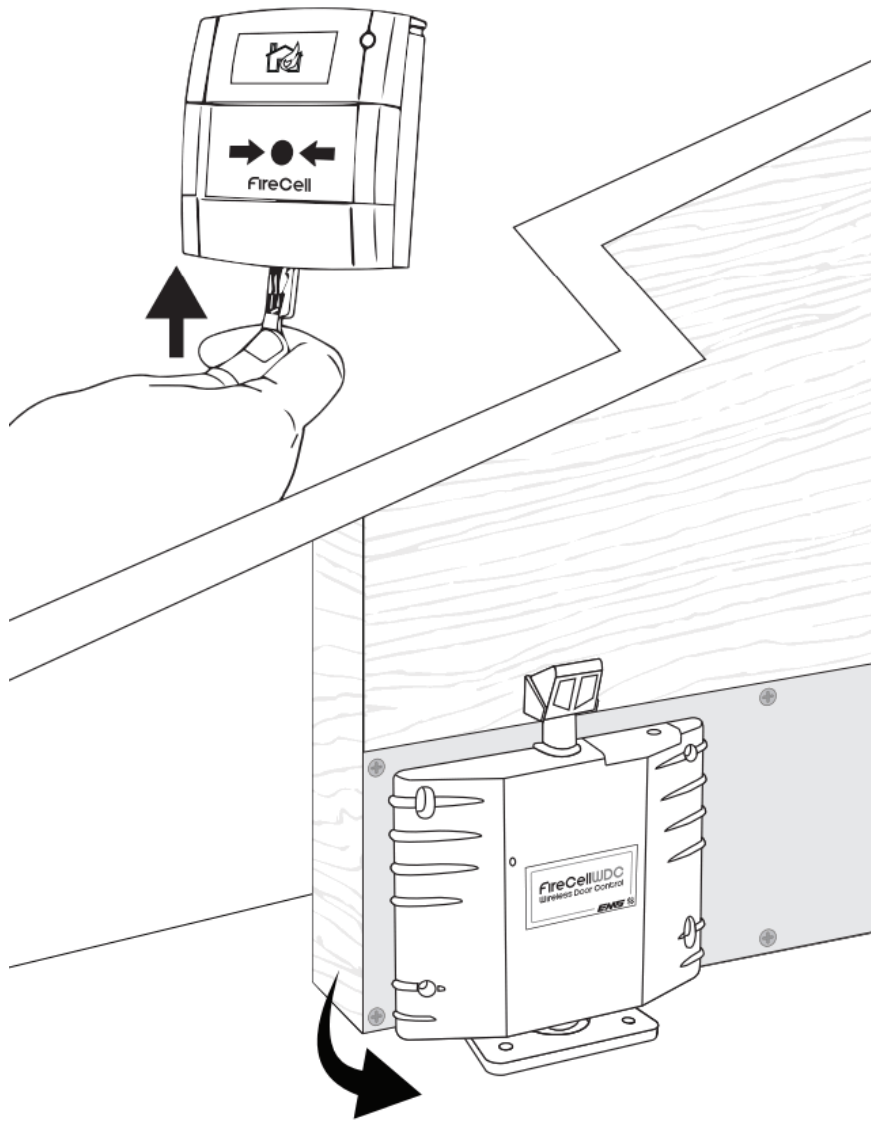
Ensure the device's ident number has been noted. The device's ident is located at the top of the device as shown:
To add devices by ident (post-installation);



From Front Display  Add New Device Select Desired RCC 01  Set Loop 1  . Addr 003  Add
By Ident  Add Dev 01ABC Y? 'Enter the Device's ident. 'Enter the device type  Input Output Device
 New Addr L1 A003  .
 To Exit

The device must now be assigned to the system. Refer to the ' Assign Devices' section on page 6 for details.

Test device



Troubleshooting

In the rare event of an issue with the device's operation, refer to the points below:

Is the device not releasing upon a fire alarm condition?

- Check that the device is added correctly to the system and that it is fault free at the FireCell radio hub.
- Check that the door closes freely when closed manually.
- Check that the plunger has a minimum of 10 mm clearance between the ferrule and the floor/floor plate.
- Check that the WDC's output properties are set correctly within the control panel programming.

Why does the fire door not close freely?

- Check that the ferrule is not worn or damaged. Replace as necessary.
- Check that the plunger has a minimum of 10 mm clearance between the ferrule and the floor/floor plate.

Device not holding the door in an open position

- Check that the plunger is depressed fully.

- Check that the device is added correctly to the system and fault free at the FireCell radio hub.
- Check that the device is positioned low enough for a good connection between the ferrule and the floor plate.
The optimum plunger movement is 10 – 15 mm.

The device is tamper at fault?

- Check that the device is fixed correctly to the door.
- Check that the surface is flat and that the tamper switch is engaging correctly when the device is fixed to the door.

Battery fault/device not powered?

- Check the polarity and the voltage of the batteries.
- Check that the battery cover is fitted correctly.
- Do NOT Press the log-on button on a pre-programmed device, as this will cause communication with the control panel to be lost. Should this happen, delete the device from the system and add it back on.

Device tone and flash indication

In addition to fault reporting at the control panel, the FireCell WDC has various beep and flash sequences to indicate a number of conditions.

During device startup sequence/motor operation

Beep sequence	Flash sequence	Indicative meaning	Action required
Low-Low-Low	None	Start-up complete	None
High-High-Low (repeated until resolved)	Red-Red (on the first two beeps only)	Motor fault*	Remove and re-insert batteries
High-High-HighHigh-Low- LowLow-Low	Red-Red-Red-Red (on the first four beeps only)	Internal fault (non-serviceable part)	Remove and re-insert batteries (If the fault persists, return to manufacturer)
None	Red-Green	Battery pack 1 low /incorrectly inserted (2x C batteries)	Replace/remove and re-insert batteries (as appropriate)

During standard operation

Beep sequence	Flash sequence	Indicative meaning	Action required
Low-Low-High (repeated until the plunger releases)	Red (on low beeps only)	Plunger fault	Check for obstructions to the plunger
High-Low-Low-Low (repeated until resolved)	Red (on first sequence only)	Internal fault (non-serviceable part)	Remove and re-insert batteries (If the fault persists, return to manufacturer)
High-Low (seven times, then door releases)	Red (on the first beep in sequence only)	The door is about to close†	Move away from the doorway

* Additional notification will be reported at the control panel as an analog value 4 fault – Tamper/ Input Fault (short or open circuit).


† Door closing can be a result of many factors such as a fire condition, a loss of communication, or a battery critical condition. Refer to the control panel for details.

Specification

Operating temperature	-10 to +55 °C
Storage temperature	5 to 30 °C
Humidity	Up to 95% non-condensing
Supply	2x C alkaline (Panasonic LR14AD Powerline / Varta 4014 Industrial)



CAUTION!

- This is a life safety product. Only use manufacturer-approved battery types.
Failure to do so may result in damage to the product.
- DO NOT mix batteries of different types or ages.
- When replacing batteries; remove all old batteries before fitting replacements.

Supply voltage	2.22 to 3.3 VDC 
Current consumption	60 A
Operating frequency	868 MHz
Output transmitter power	Auto-adjusting 0 to 14 dBm (0 to 25 mW)
Signaling protocol	X2
Dimensions (W x H x D)	195 x 205 x 45 mm
Weight	0.5 kg
Location	Type A: For indoor use
Max. hold open power size	7
Max. door leaf width	1600 mm
Max. test door mass	160 kg
ax. overload test drop weight	36 kg
Max. test door friction	0.8 Nm
Min. angle between door open and closed positions	66 °

Note: FireCell WDC is not for use on metal doors.

Regulatory information

Manufacturer	Carrier Manufacturing Polska Sp. Z o.o. Ul. Kolejowa 24. 39-100 Ropczyce, Poland
Year of manufacture	See device serial number label
Certification	
Certification body	905
CPR	0359-CPR-00648
DoP	BS EN1155:1997. Incorporating Amendment No. 1 and Corrigendum Nos. 1, 2, and 3. BS 7273-4:2007. Code of practice for the operation of re-protection measures – Part 4: Actuation of release mechanisms for doors. (Category B) EN54-25:2008. Incorporating corrigenda September 2010 and March 2012. Fire detection and re-alarm systems. Part 25: Components using radio links.
Approved to	EMS declares that this device is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.emsgroup.co.uk
	2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment or dispose of it at designated collection points. For more information see www.recyclethis.info Dispose of your batteries in an environmentally friendly manner according to your local regulations.



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Documents / Resources

	<p>Firecell MK241-99 Wireless Door Control [pdf] Installation Guide MK241-99 Wireless Door Control, MK241-99, Wireless Door Control</p>
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References

-  [Leading brand of Wireless Fire alarms systems - EMS Firecell](#)
-  [HOME](#)