EMS FC-555-001 FireCell Wireless Radio Cluster Communicator Installation Guide

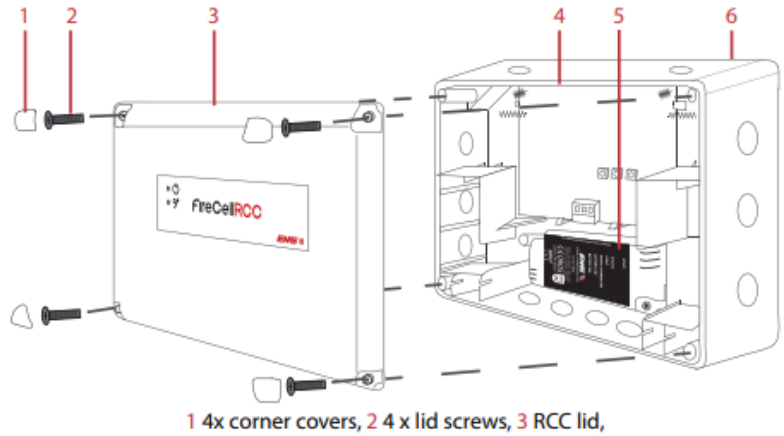
Contents

EMS FC-555-001 FireCell Wireless Radio Cluster Communicator Installation Guide

1 Pre installation

- Installation must conform to applicable local installation codesand should only be installed by a fully trained competent person.
- Ensure the RCC is installed as per the site survey.
- Refer to step 3 to ensure optimised wireless performance.
- If using remote aerials with this product, refer to the remote aerialinstallation guide (MK293) for more information.
- This device contains electronics that may be susceptible to damagefrom Electrostatic Discharge (ESD). Take appropriate precautions when handling electronic boards

2 Components

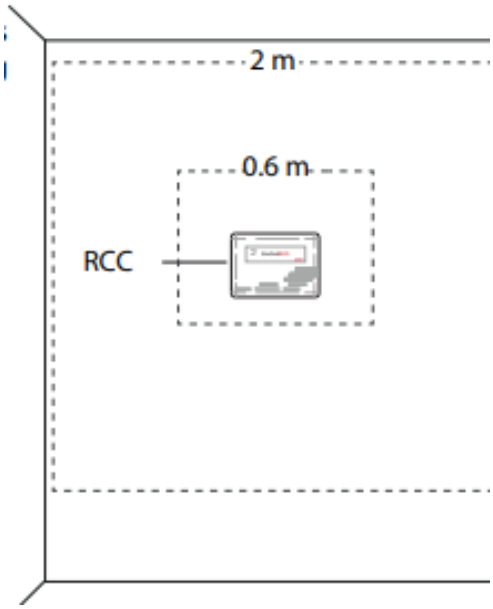


1 4x corner covers, 2 4 x lid screws, 3 RCC lid,
4 RCC PCB, 5 RCC PSU, 6 RCC back box

Mounting location guidelines

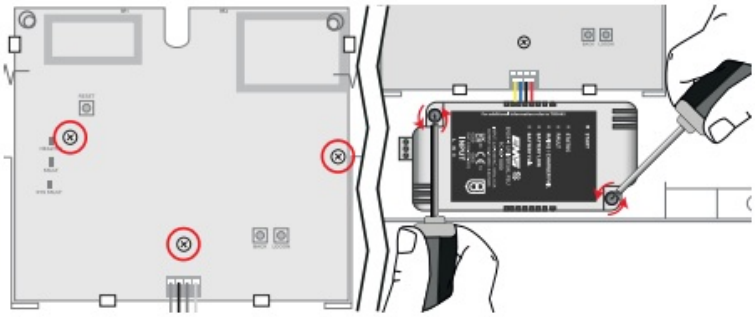
For optimum wireless performance, the following must be observed:

- Ensure the RCC is notinstalled within 2 mof other wireless orelectrical equipment.
- The RCC must not beinstalled within 0.6 m of any metal work.



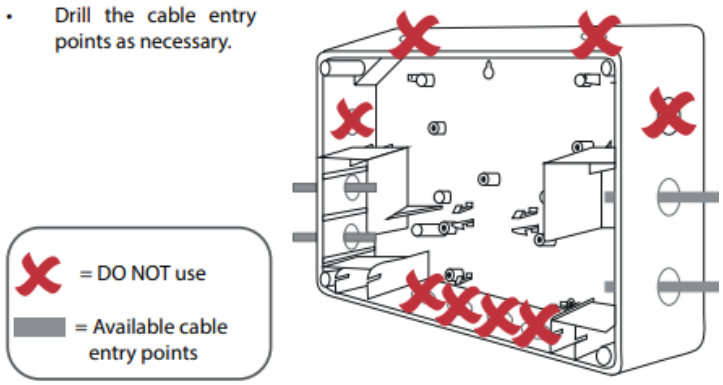
4 Optional PCB / PSU removal

- Remove the three circled retaining screws, prior to unclipping the PCB.
- If removing or rotating the PSU for right hand side mains entry, remove both PSU retaining screws.



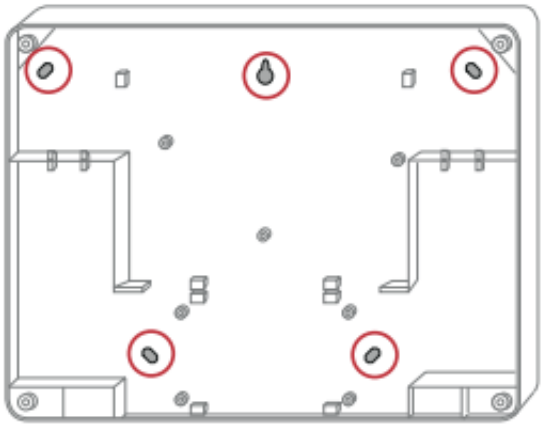
5 Remove cable entry points

• Drill the cable entry points as necessary.



6 Fix to the wall

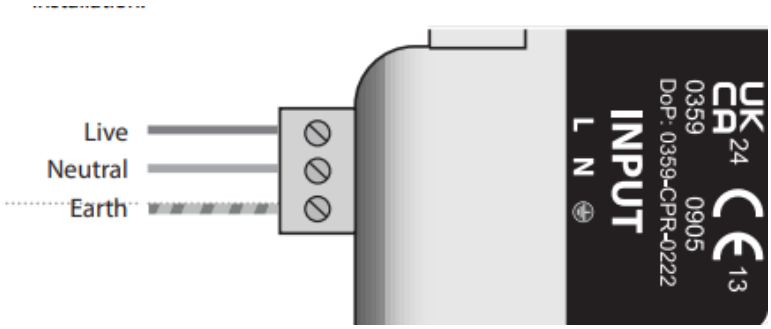
- All five circled fixingpositions are availablefor use as required.
- The key hole can alsobe used for locatingand fixing where required.



7 Connection wiring

The RCC is powered from a 220 to 240 VAC supply and requires a 5 A protection device.

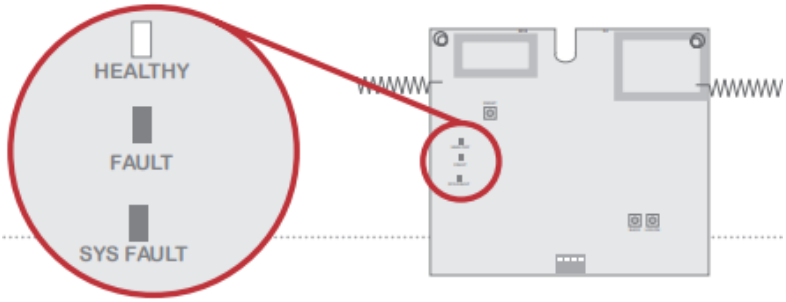
- Power cables should only be passed via the access points available.
- Flame retardant cable glands must be used.
- DO NOT leave excess cable in the RCC.
- Cable should have a minimum cross section of 1.5 mm2
- An all-pole mains switch should be provided as part of the building installation.



8 Apply power

Connect the 6V 4Ah battery (sold separately) and apply power to the RCC. The normal LED states for the RCC are as below:

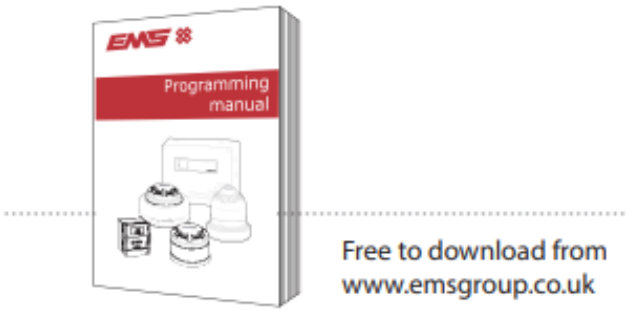
- The green HEALTHY LED will illuminate.
- The yellow FAULT LED will be extinguished
- The yellow SYS FAULT LED will be extinguished.



9 Configuration

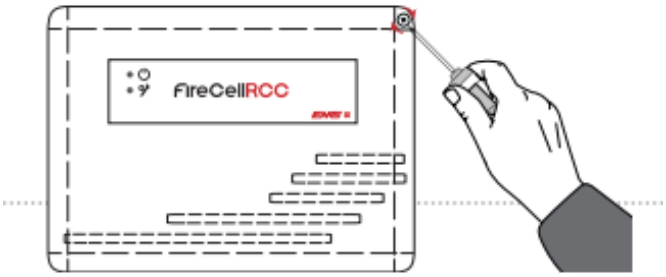
The RCC's programming and loop address are configured within the menu structure of the radio hub.

- Refer to the programming manual (MK98) for full programming information.



10 Close the RCC

- Ensure that the RCC PCB is correctly inserted and the PCB retaining screwsare refitted.
- Refit the RCC lid, ensuring LEDs are not damaged by the light pipe when refitting.



Specification

Operating temperature -10 to +55 °C
Storage temperature 5 to 30 °C
Humidity 0 to 95% non-condensing
IP rating IP54
Battery backup 1 x 6V 4Ah Yuasa NP4-6 (sold separately)
For information on routine battery changes, refer to the Universal PSU instructions (TSD042)
Power requirements Mains powered 220 to 240 VAC, 50 Hz
Current consumption 44 mA (normal operation)
55.5 mA (with mains disconnected)

Battery standby time 72 hours*
*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.
Operating frequency 868 MHz
Output transmitter power 0 to 14 dBm (0 to 25 mW)
Signalling protocol X
Dimensions (W x H x D) 270 x 205 x 85 mm
Weight 1.9 kg (including battery)
1.15 kg (excluding battery)
Location Type A: For indoor use

Regulatory information

Manufacturer
Year of manufacture
Certification
DoP number
Approved to
European Union
CE 0905 UKCA 0359 Directives0359-CPR-0046
EN54-4:1998 Incorporating Amendments Nos. 1 and 2.
Fire detection and fire alarm systems. Part 4: Power supplyequipment.
EN54-18:2005. Fire detection and fire alarm systems. Part18: Input/output devices.
EN54-25:2008. Incorporating corrigenda September 2010and March 2012. Fire detection and fire alarm systems. Part25: Components using radio links.
EMS declares that this device is in compliance with
Directive 2014/53/EU. The full text of the EU declaration oconformity is available at the following internet address:www.emsgroup.co.uk2012/19/EU (WEEE directive): Products marked with thissymbol cannot be disposed of as unsorted municipal waste
in the European Union. For proper recycling, return thisproduct to your local supplier upon purchase of equivalentnew equipment, or dispose of it at designated collectionpoints. For more information see www.recyclethis.info
Dispose of your batteries in an environmentally friendlymanner according to your local regulations.
Carrier Manufacturing Poland Sp. z o.o.
Ul. Kolejowa 24. 39-100 Ropczyce, Poland See devices serial number label

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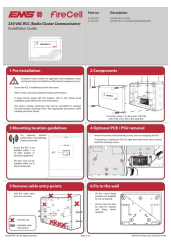	EMS FC-555-001 FireCell Wireless Radio Cluster Communicator [pdf] Installation Guide FC-555-001, FC-555-331, FC-555-001 FireCell Wireless Radio Cluster Communicator, FireCell Wireless Radio Cluster Communicator, Wireless Radio Cluster Communicator, Radio Cluster Communicator, Cluster Communicator

References