EMS �֎ FireCell

Wireless Sounder Beacon
Installation Guide

Example shown:
- FC-315-CA1
- FC-171-001
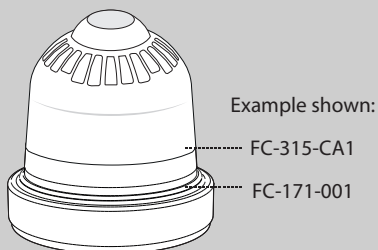
Part no	Description	CPR
FC-171-001	White Wireless Sounder Base Only	[2]
FC-171-002	Red Wireless Sounder Base Only	[2]
FC-315-CA1	White Ceiling Sounder Beacon Only	[1]
FC-315-CA2	Red Ceiling Sounder Beacon Only	[1]
FC-315-WA1	White Wall Sounder Beacon Only	[1]
FC-315-WA2	Red Wall Sounder Beacon Only	[1]

See the Specification section for compliance information.

1 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.

- The use of a non-metallic spacer should be considered if mounting the device on to a metal surface.

- 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.

- This device contains electronics that may be susceptible to damage from Electrostatic Discharge (ESD). Take appropriate precautions when handling electronic boards.
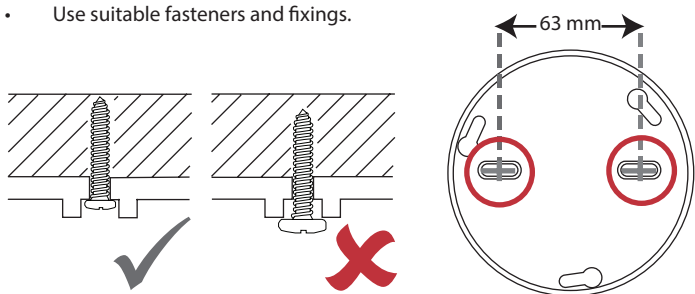
2 Components
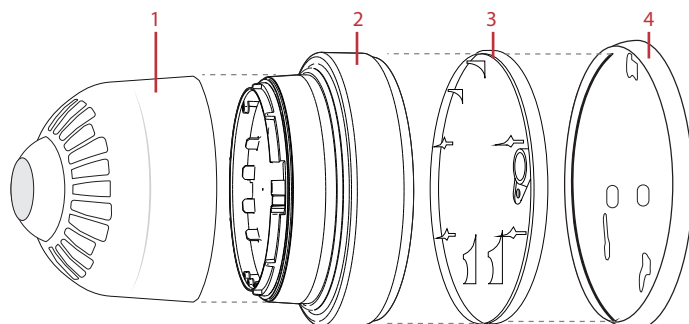
1 Sounder beacon, 2 Wireless module,
3 Battery retaining plate, 4 Mounting plate

3 Fix mounting plate

Remove the mounting plate by turning the device ANTICLOCKWISE, to release it from the mounting plate.

- Use both fixing positions to ensure a firm fixing.

- Use suitable fasteners and fixings.

63 mm

4 Power device

- Unclip the battery retaining plate from the wireless module.

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

- Connect the power jumper across the PIN header.

device unpowered *(pins unlinked)*
device powered *(both pins linked)*
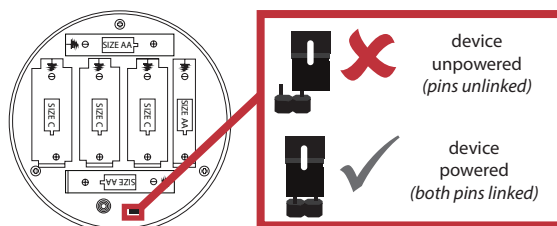
- Once powered, reassemble the device.

5 optional device locking

- To lock the sounder beacon into the wireless module, remove the cut out section as shown.

- To unlock the device, insert a 1.5 mm allen key to depress the locking clip and turn anticlockwise to release.

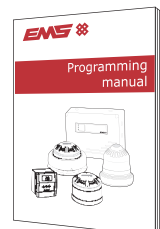Cut out section *(shaded area)*
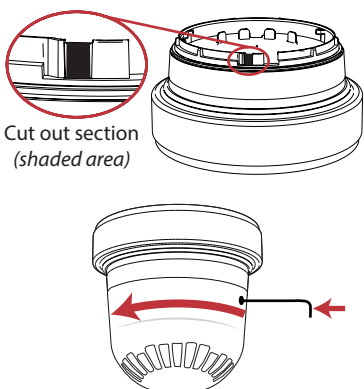
6 Configuration

The device's loop address is configured within the user interface's menu structure.

- Refer to the programming manual for full programming details.

FireCell = MK98
Fusion = TSD062
WZM = TSD143
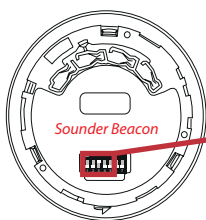
Free to download from www.emsgroup.co.uk

Sounder tone *(set on sounder beacon)*

Switches 1-5 on the 7 way switch are used to configure the sounder tone.

All 32 available configurations are shown in the tone table.

Sounder Beacon

Default setting: primary tone 5

SWITCHES 1 TO 5	PRIMARY TONE	TONE TYPE	TONE DESCRIPTION / APPLICATION	SECONDARY TONE
	1	———	970Hz	8
	2	⊓⊓⊓	800Hz/970Hz at 2Hz	1
	3	∕∕∕	800Hz - 970Hz at 1Hz	1
	4	– – –	970Hz 1s OFF / 1s ON	1
	5	⊓⊓⊓	970Hz, 0.5s / 630Hz, 0.5s	4
	6	⊓_⊔	554Hz, 0.1s / 440Hz, 0.4s *(AFNOR NF S 32 001)*	1
	7	∕ ∕ ∕	500 - 1200Hz, 3.5s / 0.5s OFF *(NEN 2575:2000)*	1
	8	– – –	420Hz 0.625s ON / 0.625s OFF *(Australia AS1670 Alert tone)*	9
	9	∕ ∕ ∕	500 - 1200Hz, 0.5s / 0.5s OFF x 3 / 1.5s OFF *(AS1670 Evacuation)*	1
	10	⊓⊓⊓	550Hz / 440Hz at 0.5Hz	19
	11	- - -	970Hz, 0.5 ON / 0.5s OFF x 3 / 1.5s OFF *(ISO 8201)*	1
	12	- - -	2850Hz, 0.5s ON / 0.5s OFF x 3 / 1.5s OFF *(ISO 8201)*	1
	13	∧∧∧∧	1200Hz - 500Hz at 1Hz *(DIN 33 404)*	1
	14	———	400Hz	18
	15	⊓⊓⊓	550Hz, 0.7s / 1000Hz, 0.33s	1
	16	∕∕∕	1500Hz - 2700Hz at 3Hz	1
	17	———	750Hz	1
	18	———	2400Hz	1
	19	———	660Hz	18
	20	– – –	660Hz 1.8s ON / 1.8s OFF	19
	21	– – –	660Hz 0.15s ON / 0.15s OFF	19
	22	⊓⊓⊓	510Hz, 0.25s / 610Hz, 0.25s	1
	23	⊓⊓⊓	800 / 100Hz 0.5s each *(1Hz)*	1
	24	∕∕∕	250Hz - 1200Hz at 12Hz	1
	25	∧∧	500 - 1200Hz at 0.33Hz	1
	26	∕∕∕	2400Hz - 2900Hz at 9Hz	18
	27	∕∕∕	2400Hz - 2900Hz at 3Hz	18
	28	∕∕∕	800Hz - 970Hz at 100Hz	1
	29	∕∕∕	800Hz - 970Hz at 9Hz	1
	30	∕∕∕	800Hz - 970Hz at 3Hz	1
	31	— —	800Hz, 0.25s ON / 1s OFF	1
	32	∕ ∕ ∕	500Hz - 1200Hz, 3.75s / 0.25s OFF *(AS2220)*	8

Volume / flash rate *(set on sounder beacon)*

Switches 6 and 7 are used to configure the volume and flash rate.

Sounder Beacon
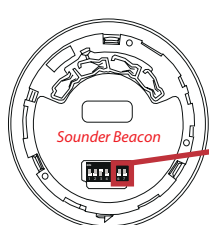
SWITCHES 6 & 7		VOLUME	FLASH RATE
ON	ON	LOW	1 Hz
ON	OFF	LOW	0.5 Hz
OFF	ON	HIGH	1 Hz
OFF	OFF	HIGH	0.5 Hz

Default setting: high volume / 1 Hz flash rate

Audio monitoring *(set on wireless module)*

The primary and secondary stage sounder tones can be monitored. If enabled and no audio is detected within 10 seconds upon sounder activation, a fault is indicated at the control panel.

FireCell Wireless Sounder Base
PRESS HERE TO LOG ON
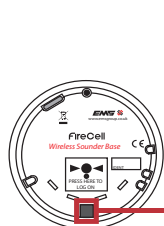
SWITCHES 1 & 2		PRIMARY TONE MONITORED	SECONDARY TONE MONITORED
ON	ON	✓	✓
ON	OFF	✓	✗
OFF	ON	✗	✓
OFF	OFF	✗	✗

Default setting: audio monitoring disabled

Specification

Operating temperature	-10 to +55 °C
Storage temperature	5 to 30 °C
Humidity	0 to 95% non-condensing
Supply	3x AA Alkaline *(Panasonic LR6AD Powerline / Varta 4006 Industrial)* & 3x C Alkaline *(Panasonic LR14AD Powerline / Varta 4014 Industrial)*

CAUTION!
Fitting of an incorrect battery type invalidates the product certification and may result in poor performance.

Sounder output	94 to 97 dB(A) at 1 m *(as dispatched)*. Low setting reduces volume by 7 dB.
IP rating	IP54
Operating frequency	868 MHz
Output transmitter power	Auto adjusting 0 to 14 dBm *(0 to 25 mW)*
Signalling protocol	X
Beacon element voltage	17 to 60 VDC operating at 18 VDC
Beacon element current *(max.)*	45 mA at 1 Hz flash rate
Beacon flash rate	0.5 Hz / 1 Hz *(selectable)*
Beacon category / coverage	C-3-15 / 337 m³ *(ceiling mounted variant)* W-3.1-11.3 / 396 m³ *(wall mounted variant)*
Dimensions *(Ø x D)*	120 x 145 mm
Weight	0.65 kg
Location	Type A: For indoor use

Regulatory Information