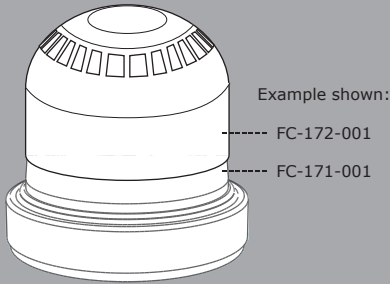


## Wireless Sounder / Visual Indicator Installation Guide



FC-171-001	White Wireless Sounder Base Only	[2]
FC-171-002	Red Wireless Sounder Base Only	[2]
FC-172-001	White Sounder Only	[1]
FC-172-002	Red Sounder Only	[1]
FC-173-002	Red Sounder Visual Indicator Only	[1]
FC-173-003	Amber Sounder Visual Indicator Only	[1]
FC-173-004	Clear Sounder Visual Indicator Only	[1]
FC-178-002	Red Visual Indicator Only	[1]
FC-178-003	Amber Visual Indicator Only	[1]
FC-178-004	Clear Visual Indicator Only	[1]

See the Specification section for compliance information.

### 1 Pre Installation

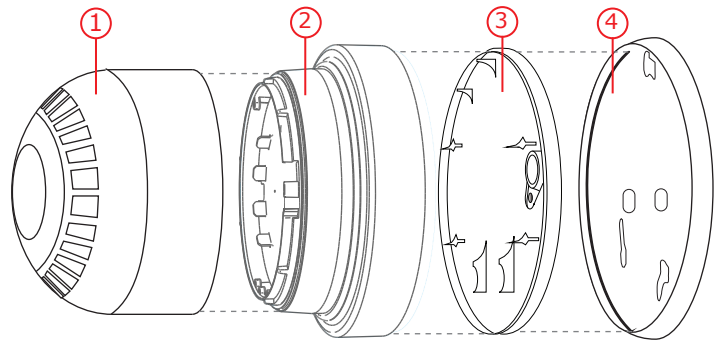


Installation must conform to applicable local installation codes and should only be installed by a fully trained competent person.

- 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.



### 2 Components

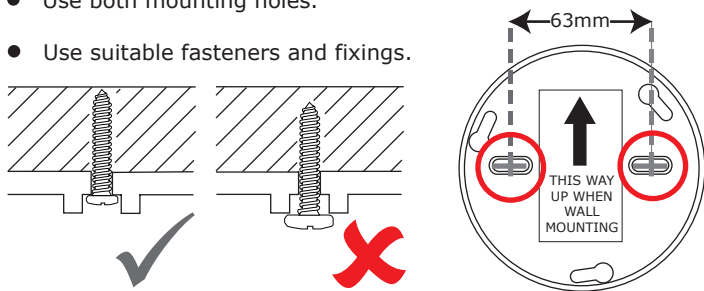


- ① Sounder/Visual Indicator Variant
- ② Wireless Module
- ③ Battery Retaining Plate
- ④ Mounting Plate

### 3 Fix Mounting Plate

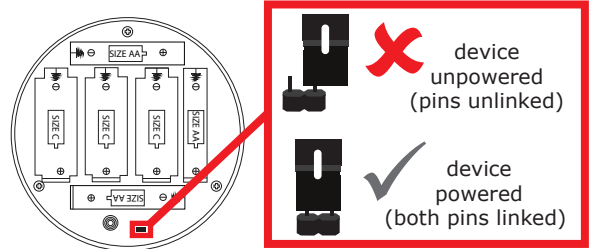
Remove the mounting plate from the wireless module by turning it anticlockwise.

- When wall mounting, ensure the mounting plate is fitted in the orientation shown.
- Use both mounting holes.
- Use suitable fasteners and fixings.



### 4 Power Device

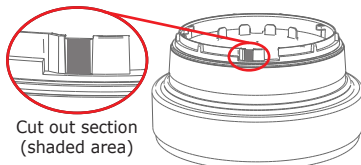
- Unclip the battery retaining plate from the wireless module.
- When fitting / replacing batteries; observe correct polarity, using only specified batteries.
- Connect the power jumper across the PIN header.



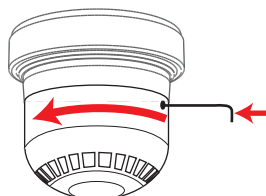
- Once powered, reassemble the device.

### 5 Optional Device Locking

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



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



### 6 Configuration

The device's loop address is configured within the menu structure of the Radio Hub.

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



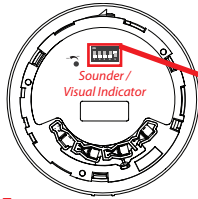
Free to download from [www.emsgroup.co.uk](http://www.emsgroup.co.uk)

## Configuration Continued

### Sounder Tone (Set on Sounder/Visual Indicator)

The 5 way switch is used to configure the sounder tone.

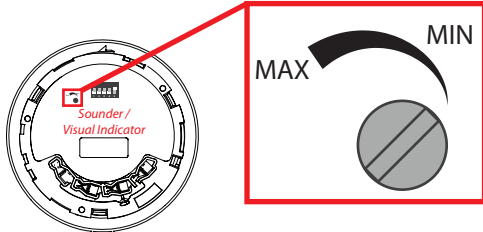
All 32 available configurations are shown in the tone table.



Default Setting: Primary Tone 5

### Volume (Set on Sounder/Visual Indicator)

The sound output of the unit can also be reduced by adjusting the potentiometer as shown.



Default setting: High Volume

### 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.

SWITCHES 1 & 2	PRIMARY TONE MONITORED	SECONDARY TONE MONITORED
ON / ON	✓	✓
ON / OFF	✓	✗
OFF / ON	✗	✓
OFF / OFF	✗	✗

Default setting: Audio Monitoring Disabled

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

## Specification

<b>Operating Temperature</b>	-10°C to 55°C
<b>Storage Temperature</b>	5°C to 30°C
<b>Humidity</b>	Up to 95% non-condensing
<b>Supply</b>	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.

<b>Sounder Output</b>	99dBA @ 1m (as dispatched)
<b>IP Rating</b>	IP54
<b>Operating Frequency</b>	868MHz
<b>Output Transmitter Power</b>	Auto adjusting 0 - 14 dBm (0 - 25 mW)
<b>Dimensions</b>	120mm (Ø) 125mm (D)

## Regulatory Information

<b>Manufacturer</b>	EMS Security Group Ltd. Technology House, Herne Bay, Kent, CT6 8JZ, United Kingdom
<b>Year of manufacture</b>	See devices serial number label
<b>Certification</b>	<b>CE 10</b>
<b>Certification body</b>	<b>0359</b>
<b>CPR Certificate DOP</b>	See part listing for associated products: [1]0359-CPR-0022, [2]0359-CPR-0040

<b>Approved to</b>	See part listing for associated products: EN54-3:2001. Incorporating Amendments Nos. 1 and 2. Fire detection and fire alarm systems. Part 3: Fire alarm devices - Sounders. [1]  EN54-25:2008. Incorporating corrigenda September 2010 and March 2012. Fire detection and fire alarm systems. Part 25: Components using radio links. [2]
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<b>European union directives</b>	EMS Security Group Ltd hereby declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU (R&TTE directive).
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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 purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see [www.recyclethis.info](http://www.recyclethis.info)