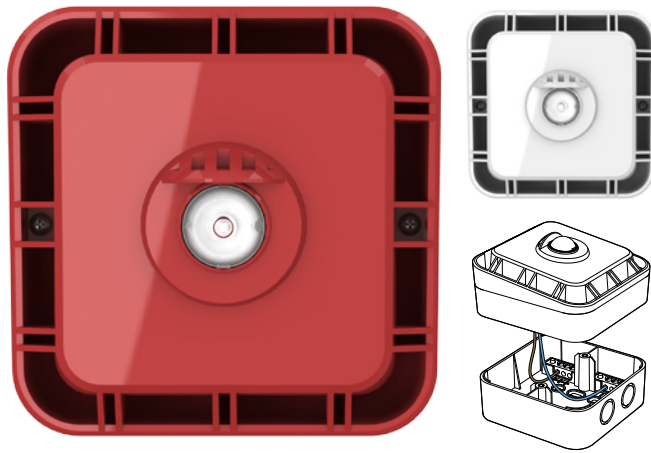


# Xtratone Addressable Combined Sounder Beacon (MKII-AXTB/R & MKII-AXTB/W)



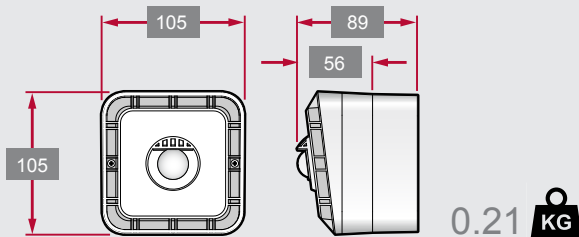
## Description

The new Xtratone addressable wall sounder with beacon has been designed to make an “electronics free” first fix and is available in red or white. The beacon has a coverage pattern of W 3.0 - 8.9 and the sounder part has 16 tones selectable at the control panel.

## Features

- ✓ 102dB @ 1m sound output
- ✓ 16 tones can be selected from control panel
- ✓ Flash rates between 0.33Hz and 1.5Hz
- ✓ Hard addressed via 8 way dip-switch OR
- ✓ Soft addressed via MKII Handheld Programmer
- ✓ Flush or surface fixing
- ✓ Housed in UL V0 flame retardant ABS
- ✓ 4 x 20mm cable entries (2 top, 2 bottom)
- ✓ First fix, wire to back box technology

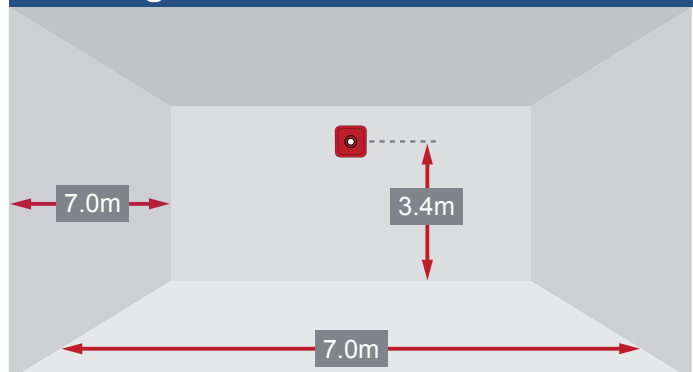
## Dimensions & Weight



## Technical Specification

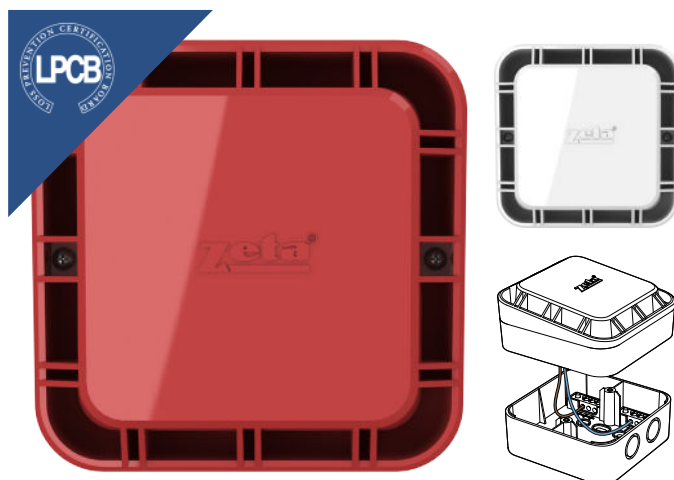
| Model                                    | MKII-AXTB/R                        | MKII-AXTB/W             |
|------------------------------------------|------------------------------------|-------------------------|
| Part Number                              | 42-617                             | 42-618                  |
| Operating Voltage                        | 17 – 28V DC                        |                         |
| Quiescent Current                        | 1.5mA                              |                         |
| Alarm Current                            | 18 to 43mA                         |                         |
| Sound Output                             | 96dB                               |                         |
| Colour                                   | Red body, Clear Flash              | White body, Clear Flash |
| Minimum Continuous Operating Temperature | 0°C                                |                         |
| Operating Temperature                    | -10°C To +55°C                     |                         |
| Max Humidity                             | 95% Rh Non Condensing              |                         |
| IP Rating                                | IP21C                              |                         |
| Size mm (with back box)                  | 105x 105 x 56mm (105 X 105 X 89mm) |                         |
| Weight                                   | 210g                               |                         |

## Coverage

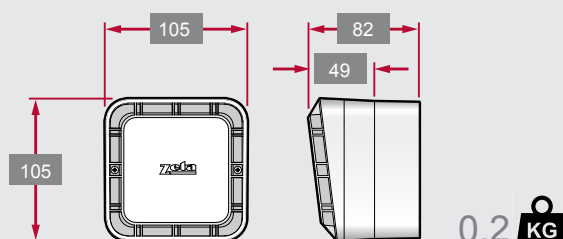


\* This applies to 'TONE 0' 800Hz and 970Hz, 500ms each

# Xtratone Addressable Wall Sounder (MKII-AXT/R & MKII-AXT/W)

**zeta**<sup>®</sup>  
ALARMS LIMITED


## Dimensions & Weight



## Technical Specification

| Model                                    | MKII-AXT/R            | MKII-AXT/W  |
|------------------------------------------|-----------------------|-------------|
| Part Number                              | 42-610                | 42-611      |
| Colour                                   | Red                   | White       |
| Operating Voltage                        | 17 – 28V Dc           | 17 – 28V Dc |
| Quiescent Current                        | 1.5mA                 |             |
| Alarm Current                            | 5.4mA                 |             |
| Sound Output                             | * 99.3dB +/- 2dB      |             |
| Minimum Continuous Operating Temperature | 0°C                   |             |
| Operating Temperature                    | -10°C To +55°C        |             |
| Max Humidity                             | 95% Rh Non Condensing |             |
| IP Rating                                | IP 21C                |             |
| Size mm                                  | 105 x 105 x 49mm      |             |
| (with back box)                          | (105 X 105 X 82mm)    |             |
| Weight                                   | 200g                  |             |

\* This applies to 'TONE 0' under reberberant conditions

\*\* Approved tones are Tone 0 and Tone 8

## Description

The Xtratone sounders are small, high output addressable devices which are designed to meet EN54 part 3.

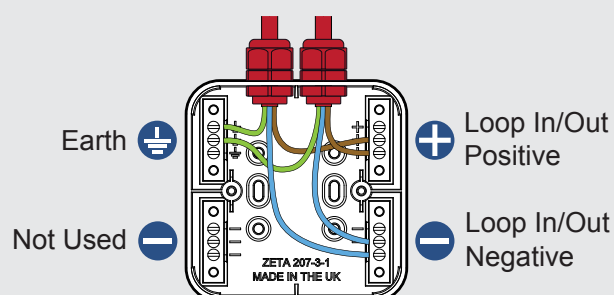
The device is a compact unit that fits a standard European back box and can be either surface or semi-flush mounted.

The Xtratone sounder has been designed so that field cables can be terminated in the back box as a first fix.

## Features

- Complies to EN54 parts 3
- 100dB @ 1m sound output
- 16 tones\*\* can be selected from control panel
- Hard addressed via 8 way dip-switch OR
- Soft addressed via MKII Handheld Programmer
- Flush or surface fixing
- Housed in UL V0 flame retardant ABS
- 4 x 20mm cable entries (2 top, 2 bottom)
- First fix, wire to back box technology

## First Fix



## ADDRESSABLE RAPTOR SOUNDER & SOUNDER BEACON INSTALLATION MANUAL



### Description

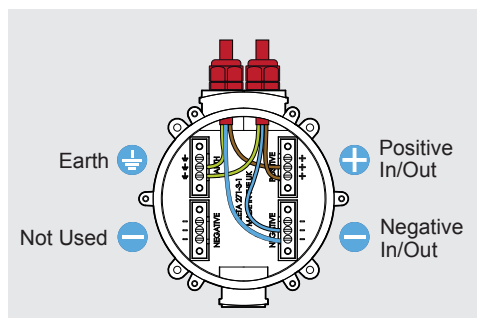
The Raptor addressable sounder is a large weatherproof horn sounder suitable for many indoor & outdoor applications.

It is available in red or white and has a selection of 16 tones, selectable at the control panel

Termination of field wiring is made to the backbox for a clean first fix.

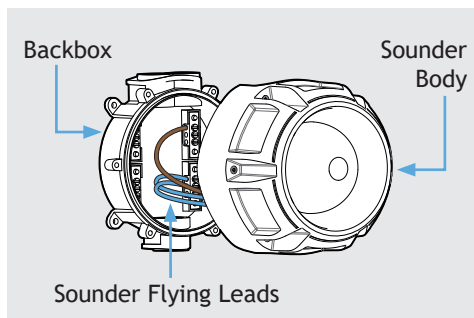
### Connections - First Fix

The loop wiring connects to terminals in the back box.



### Final Fix

- Set the device address (see address setting)
- Fix the BROWN sounder flying lead to the POSITIVE terminal
- Fix the BLUE sounder flying leads to the RIGHT NEGATIVE terminal
- Screw the sounder body to the backbox.



## Address Setting

This sounder is addressed via an 8 way dip switch. All 8 switches are used for the address setting. It is a binary arrangement, with ON being the zero position.

| Switch         | 1 | 2 | 3 | 4 | 5  | 6  | 7  | 8   |
|----------------|---|---|---|---|----|----|----|-----|
| Value when ON  | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0   |
| Value when Off | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 |

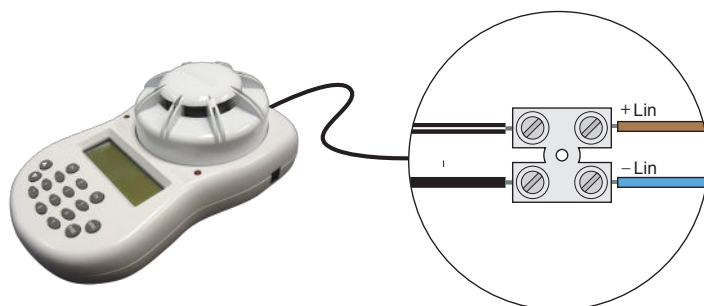
The Switch settings can be calculated using these numbers. EG  $21 = 16 + 4 + 1$ , so Switches 1, 3 & 5 are off, all the others are on. The maximum address is 250. For convenience a table of all address settings can be found at the end of the manual.

## Alternative Soft Addressing Option

Using our hand held MkII programmer (Part No: 48-004), the sounder can be addressed electronically.

**Step 1:** Set all addresses to zero 0000000

**Step 2:** Connect leads to LOOP IN+ and LOOP IN- as shown below



**Step 3:** Follow the procedure as described in the handheld programmer manual.

**NOTE:** When a device is soft addressed as above, the address **CANNOT BE CHANGED** by mechanical setting of the dip-switch. In order to re-enable the dip-switch the unit needs to be set electronically back to zero first.

## Protocol Usage

The Raptor Sounder and sounder beacon work on the Zeta Fyreye II protocol only. The flasher (if fitted) can be triggered independently to the sounder, if the control panel supports that function.

## Sounder Synchronisation

The Raptor sounders support the Fyreye II sounder synchronisation mechanism.

## Alarm Tone Selection

The Raptor sounder supports alarm tone selection. IE, the installer can decide which alarm tone ALL the sounders will use. The alarm tone can be set for the whole system via the control panel. One of 16 tones can be chosen for the alarm tone.

| No | Tone Description            | Pattern      | Frequency   | Rate                                   |
|----|-----------------------------|--------------|-------------|----------------------------------------|
| 0* | BS Fire (Default Zeta tone) | Alternating  | 800 & 970   | 1Hz (500ms-500ms)                      |
| 1  | BS Fire                     | Alternating  | 800 & 970   | 2Hz (250ms-250ms)                      |
| 2  | BS Fire                     | Sweep        | 800 to 970  | 1Hz (1 per second)                     |
| 3  | BS Fire                     | Sweep        | 800 to 970  | 7Hz (7 per second)                     |
| 4  | BS Fire                     | Sweep        | 800 to 970  | 50Hz (50 per second)                   |
| 5  | BS Fire                     | Alternating  | 510 & 610   | 1Hz (500ms-500ms)                      |
| 6  | German fire (DIN 33 404)    | Sweep (DIN)  | 1200 to 500 | 1Hz                                    |
| 7  | French fire (NFS 32-001)    | Alternating  | 554 & 440   | 100ms-400ms                            |
| 8* | Dutch fire (NEN 2575)       | Slow whoop   | 500 to 1200 | 3.5s sweep, 0.5 s silence, then repeat |
| 9  | PFEER Toxic Gas             | Continuous   | 970         | Steady                                 |
| 10 | PFEER alert                 | Intermittent | 970         | 0.5Hz (1s On/1s Off)                   |
| 11 | Reserved                    | -            | -           | -                                      |
| 12 | Reserved                    | -            | -           | -                                      |
| 13 | Reserved                    | -            | -           | -                                      |
| 14 | Reserved                    | -            | -           | -                                      |
| 15 | Reserved                    | -            | -           | -                                      |

\*Approved Tones

See Document GLT-279-6-3 for further operational data.

Selecting a Reserved tone will cause the sounder to play tone 0. The default alarm tone will be tone 0.

## Other Tones

The Raptor has 3 tones that can be triggered in normal running:-

- Alarm Tone - Selectable - see list above.
- Alert tone - 970Hz intermittent. 0.5s on, 0.5s off
- Emergency - 970Hz intermittent: 3 x 500ms pulses, 1.5s silence, then repeat

The availability of these tones will depend on the Control panel used.

## Flasher Setting

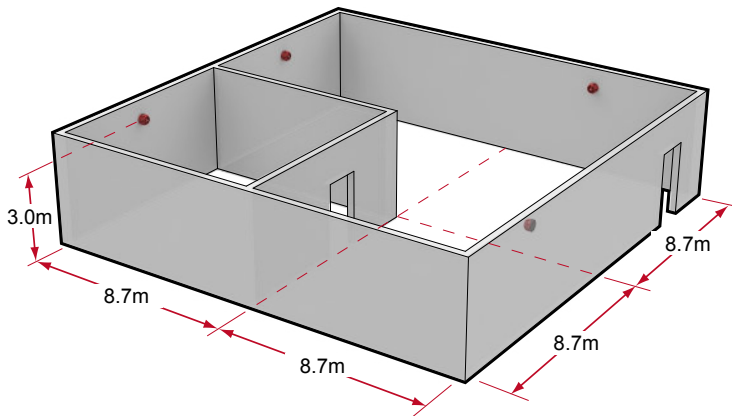
The Raptor has a 4 way dip switch for configuring the flasher. Switches 1 to 3 configure the flasher as shown below. Switch 4 is for future use. Setting 1 gives the specified flasher rating.

| Setting | Switch 1 | Switch 2 | Switch 3 | Flash rate | Current | Relative Flasher intensity |
|---------|----------|----------|----------|------------|---------|----------------------------|
| 1*      | OFF      | OFF      | OFF      | 0.5 Hz     | 43mA    | 100%                       |
| 2       | ON       | OFF      | OFF      | 0.33 Hz    | 18mA    | 60%                        |
| 3       | OFF      | ON       | OFF      | 0.33 Hz    | 25mA    | 85%                        |
| 4       | ON       | ON       | OFF      | 0.33 Hz    | 33mA    | 99%                        |
| 5       | OFF      | OFF      | ON       | 0.5 Hz     | 33mA    | 89%                        |
| 6       | ON       | OFF      | ON       | 1.0 Hz     | 43mA    | 69%                        |
| 7       | OFF      | ON       | ON       | 1.5 Hz     | 43mA    | 46%                        |
| 8       | ON       | ON       | ON       | OFF        | 5.4mA   | 0%                         |

\* Approved Flasher setting

## Beacon Coverage

The Raptor addressable sounder with beacon (ZRAPB/R & ZRAPB/W) has a coverage pattern of W-3.0-8.7 and an approved flash rate of 0.5 Hz.



## Technical Data

| Model                                    | ZRAP/R                | ZRAP/W | ZRAPB/R                            | ZRAPB/W |
|------------------------------------------|-----------------------|--------|------------------------------------|---------|
| Part Number                              | 42-635                | 42-636 | 42-637                             | 42-638  |
| Colour                                   | Red                   | White  | Red                                | White   |
| Flash Colour                             | N/A                   |        | White flash                        |         |
| Flash Rate                               | N/A                   |        | 0.33 - 1.5 Hz (depends on setting) |         |
| Flasher Coverage                         | N/A                   |        | W-3.0-8.7 for setting 1            |         |
| Sounder Output (Anechoic)                | 82.9dB @1m            |        |                                    |         |
| Operating Voltage                        | 17-28 V               |        |                                    |         |
| Quiescent Current                        | 1.5 mA                |        |                                    |         |
| Alarm Current                            | 5.4 mA max            |        | 19-44 mA (depends on setting)      |         |
| Sounder Type                             | Type B (outdoor use)  |        |                                    |         |
| Operating Temperature                    | -25°C to +70°C        |        |                                    |         |
| Minimum Continuous Operating Temperature | 0°C                   |        |                                    |         |
| Max Humidity                             | 95% RH Non Condensing |        |                                    |         |
| IP Rating                                | IP33C                 |        |                                    |         |
| Size (H x W x D in mm )                  | 146 x 150 x 98        |        | 146 x 150 x 107.5                  |         |
| Weight (with Back Box)                   | 540g                  |        | 550g                               |         |

Minimum sound output 62.7dB

## Troubleshooting

| Problem                             | Possible Cause                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Device Not Seen By Panel            | <p>Check the device is addressed within the range of the panel :-<br/>           1 To 250 for a Quatro / 1 To 126 for a Simplicity Plus<br/>           Other panels - check panel manuals for info</p> <p>Check that loop is connected with correct polarity</p> <p>Check that sounder flying leads have been connected to the backbox.</p> <p>Check the panel is running the Zeta Fyreye MkII protocol</p> |
| Sounder Is Not Operating            | Check panel's actions (cause & effect) programming is correct.                                                                                                                                                                                                                                                                                                                                              |
| Flasher is not operating            | <p>Check that the flasher LED wires have not been disconnected</p> <p>Check panel's actions (cause &amp; effect) programming is correct.</p>                                                                                                                                                                                                                                                                |
| Can Not Start An Individual Sounder | <p>Check whether triggering individual sounders is supported by the control panel</p> <p>Check the cause &amp; effect programming to see if common operation has been selected</p>                                                                                                                                                                                                                          |