

ADDRESSABLE XTRATONE SOUNDER BEACON INSTALLATION MANUAL









Description

The Xtratone addressable sounder beacon is a small, high output device, suitable for indoor wall mounted applications.

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

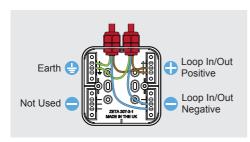
Termination of field wiring is made to the backbox for a clean first fix.

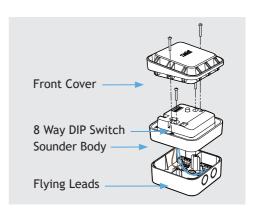
Final Fix

- 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
- Fit the sounder front cover

Connections - First Fix

The loop wiring connects to terminals in the back box.





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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

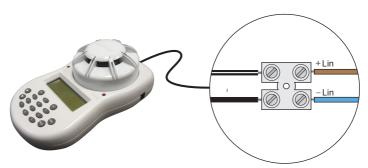
The Switch settings can be calculated using these numbers. EG 21 = 16 +4 +1, so Switches 1,3 & 5 are off, all the others are on. The maximum address is 250. For convenience a table of all address settings can be found at the end of the manual.

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 Xtratone sounder beacon works 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 Xtratone sounder beacon supports the Fyreye II sounder synchronisation mechanism.

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Alarm Tone Selection

The Xtratone sounder beacon 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-290-6-1 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 Xtratone 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.

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Flasher Setting

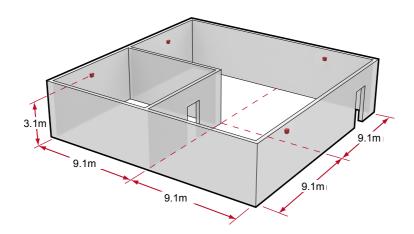
The Xtratone sounder beacon has a 4 way dip switch for configuring the flasher. Switches 1 to 3 configure the flasher as shown below. Switch 4 is for future use. Setting 1 gives the specified flasher rating.

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 Xtratone addressable sounder with beacon (MKII-AXTB/R & MKII-AXTB/W) has a coverage pattern of W-3.1-9.1 and a flash rate of 0.5 Hz.



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Technical Data

Model	MKII-AXT/R	MKII-AXT/W	MKII-AXTB/R	MKII-AXTB/W		
Part Number	42-610A	42-611A	42-617	42-618		
Colour	Red	White	Red	White		
Flash Colour	N.	/A	White	flash		
Flash Rate	N.	/A	0.33 - 1.5 Hz (de	pends on setting)		
Flasher Coverage	N.	/A	W-3.1-9.1 f	or setting 1		
Sounder Output (Anechoic)	80.4dB @ 1m					
Operating Voltage	17-28 V					
Quiescent Current	1.5 mA					
Alarm Current	5.4 m	A max	19-44 mA (depends on setting)			
Sounder Type	Type A (Indoor use)					
Operating Temperature		-10°C t	o +55°C			
Minimum Continuous Operating Temperature		0°€				
Max Humidity	95% RH Non Condensing					
IP Rating	IP21C					
Size (H x W x D in mm)	105 x 105 x 56	(105 x 105 x 89)	105 x 105 x 56 (105 x 105 x 89)			
Weight (with Back Box)	20	0g	210g			

Minimum sound output 66.3dB

Troubleshooting

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

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	1							
ADDRESS	SW1	SW2	SW3	SW4	SW5	9WS	ZW2	SW8
0								
1	OFF	ON	ON	ON	ON	ON	ON	ON
2	ON	OFF	ON	ON	ON	ON	ON	ON
3	OFF	OFF	ON	ON	ON	ON	ON	ON
4	ON	ON	OFF OFF	ON	ON	ON	ON	ON
5	OFF	ON	OFF	ON	ON	ON	ON	ON
6	ON	OFF	OFF	ON	ON	ON	ON	ON
7	OFF	OFF	OFF	ON	ON	ON	ON	ON
8	ON	ON	ON	OFF	ON	ON	ON	ON
9	OFF	ON	ON	OFF	ON	ON	ON	ON
10	ON	OFF	ON	OFF	ON	ON	ON	ON
11	OFF ON	OFF ON	ON OFF	OFF OFF	ON ON	ON ON	ON ON	ON
13	OFF	ON	OFF	OFF	ON	ON	ON	ON
14	ON	OFF	OFF	OFF	ON	ON	ON	ON
15	OFF	OFF	OFF	OFF	ON	ON	ON	ON
16	ON	ON	ON	ON	OFF	ON	ON	ON
17	OFF	ON	ON	ON	OFF	ON	ON	ON
18	ON	OFF	ON	ON	OFF	ON	ON	ON
19	OFF	OFF	ON	ON	OFF	ON	ON	ON
20	ON	ON	OFF	ON	OFF	ON	ON	ON
21	OFF	ON	OFF	ON	OFF	ON	ON	ON
22	ON	OFF	OFF	ON	OFF	ON	ON	ON
23	OFF	OFF	OFF	ON	OFF	ON	ON	ON
24	ON	ON	ON	OFF	OFF	ON	ON	ON
25	OFF	ON	ON	OFF	OFF	ON	ON	ON
26	ON	OFF	ON	OFF	OFF	ON	ON	ON
27	OFF	OFF	ON	OFF	OFF	ON	ON	ON
28	ON	ON	OFF	OFF	OFF	ON	ON	ON
29	OFF	ON	OFF OFF	OFF OFF	OFF OFF	ON	NO	ON
30	ON OFF	OFF OFF	OFF	OFF	OFF	ON	ON ON	ON ON
32	ON	ON	ON	ON	ON	OFF	ON	ON
33	OFF	ON	ON	ON	ON	OFF	ON	ON
34	ON	OFF	ON	ON	ON	OFF	ON	ON
35	OFF	OFF	ON	ON	ON	OFF	ON	ON
36	ON	ON	OFF	ON	ON	OFF	ON	ON
37	OFF	ON	OFF	ON	ON	OFF	ON	ON
38	ON	OFF	OFF	ON	ON	OFF	ON	ON
39	OFF	OFF	OFF	ON	ON	OFF	ON	ON
40	ON	ON	ON	OFF	ON	OFF	ON	ON
41	OFF	ON	ON	OFF	ON	OFF	ON	ON
42	ON	OFF	ON	OFF	ON	OFF	ON	ON
43	OFF	OFF	ON	OFF	ON	OFF	ON	ON
44	ON	ON ON	OFF OFF	OFF OFF	ON	OFF OFF	ON	ON
46	OFF ON		OFF	OFF	ON	OFF	ON ON	ON
47	OFF	OFF OFF	OFF	OFF	ON	OFF	ON	ON
48	ON	ON	ON	ON		OFF	ON	ON
49	OFF	ON	ON	ON	OFF OFF	OFF	ON	ON
50	ON	OFF	ON	ON	OFF	OFF	ON	ON
51	OFF	OFF	ON	ON	OFF	OFF	ON	ON
52	ON	ON	OFF	ON	OFF	OFF	ON	ON
53	OFF	ON	OFF	ON	OFF	OFF	ON	ON
54	ON	OFF	OFF	ON	OFF	OFF	ON	ON
55	OFF	OFF	OFF	ON	OFF	OFF	ON	ON
56	ON	ON	ON	OFF	OFF	OFF	ON	ON
57	OFF	ON	ON	OFF	OFF	OFF	ON	ON
58	ON	OFF OFF	NO	OFF OFF	OFF OFF	OFF OFF	NO	ON
59 60	OFF ON	OFF	ON OFF	OFF	OFF	OFF	ON	ON
61	OFF	ON	OFF	OFF	OFF	OFF	ON	ON
62	ON	OFF	OFF	OFF	OFF	OFF	ON	ON
63	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON
63	UFF	UFF	UFF	UFF	ULL	UFF	UN	UN

ADDRESS	SW1	SW2	SW3	SW4	SW5	9MS	ZWZ	SW8
64	ON	NO	NO	NO	NO	NO	OFF OFF	ON
65 66	OFF ON	ON OFF	ON ON	ON	ON	ON	OFF	ON ON
67	OFF	OFF	ON	ON	ON	ON	OFF	ON
68	ON	ON	OFF	ON	ON	ON	OFF	ON
69	OFF	ON	OFF	ON	ON	ON	OFF	ON
70	ON	OFF	OFF	ON	ON	ON	OFF	ON
71	OFF	OFF	OFF	ON	ON	ON	OFF	ON
72	ON	ON	ON	OFF	ON	ON	OFF	ON
73 74	OFF	ON	ON	OFF OFF	ON	NO	OFF	ON
75	ON OFF	OFF OFF	ON	OFF	ON	ON	OFF OFF	ON ON
76	ON	ON	OFF	OFF	ON	ON	OFF	ON
77	OFF	ON	OFF	OFF	ON	ON	OFF	ON
78	ON	OFF	OFF	OFF	ON	ON	OFF	ON
79	OFF	OFF	OFF	OFF	ON	ON	OFF	ON
80	ON	ON	ON	ON	OFF	ON	OFF	ON
81	OFF	ON	ON	ON	OFF	ON	OFF	ON
82	ON	OFF	ON	ON	OFF	NO	OFF OFF	ON
83 84	OFF ON	OFF ON	ON OFF	ON	OFF OFF	ON ON	OFF	ON ON
85	OFF	ON	OFF	ON	OFF	ON	OFF	ON
86	ON	OFF	OFF	ON	OFF	ON	OFF	ON
87	OFF	OFF	OFF	ON	OFF	ON	OFF	ON
88	ON	ON	ON	OFF	OFF	ON	OFF	ON
89	OFF	ON	ON	OFF	OFF	ON	OFF	ON
90	ON	OFF	ON	OFF	OFF	ON	OFF	ON
91	OFF	OFF	ON	OFF	OFF	ON	OFF	ON
92	ON	ON	OFF	OFF	OFF	ON	OFF	ON
93 94	OFF ON	ON OFF	OFF OFF	OFF OFF	OFF OFF	ON ON	OFF OFF	ON ON
95	OFF	OFF	OFF	OFF	OFF	ON	OFF	ON
96	ON	ON	ON	ON	ON	OFF	OFF	ON
97	OFF	ON	ON	ON	ON	OFF	OFF	ON
98	ON	OFF	ON	ON	ON	OFF	OFF	ON
99	OFF	OFF	ON	ON	ON	OFF	OFF	ON
100	ON	ON	OFF	ON	ON	OFF	OFF	ON
101	OFF	ON OFF	OFF OFF	ON ON	ON	OFF OFF	OFF OFF	ON ON
102	ON OFF	OFF	OFF	ON	ON	OFF	OFF	ON
104	ON	ON	ON	OFF	ON	OFF	OFF	ON
105	OFF	ON	ON	OFF	ON	OFF	OFF	ON
106	ON	OFF	ON	OFF	ON	OFF	OFF	ON
107	OFF	OFF	ON	OFF	ON	OFF	OFF	ON
108	ON	ON	OFF	OFF	ON	OFF	OFF	ON
109 110	OFF	ON OFF	OFF OFF	OFF OFF	ON	OFF OFF	OFF OFF	ON ON
111	ON OFF	OFF	OFF	OFF	ON	OFF	OFF	ON
112	ON	ON	ON	ON	OFF	OFF	OFF	ON
113	OFF	ON	ON	ON	OFF	OFF	OFF	ON
114	ON	OFF	ON	ON	OFF	OFF	OFF	ON
115	OFF	OFF	ON	ON	OFF	OFF	OFF	ON
116	ON	ON	OFF	ON	OFF	OFF	OFF	ON
117	OFF	ON	OFF	NO	OFF	OFF	OFF	ON
118 119	ON OFF	OFF OFF	OFF OFF	ON	OFF OFF	OFF OFF	OFF OFF	ON ON
120	ON	ON	ON	OFF	OFF	OFF	OFF	ON
121	OFF	ON	ON	OFF	OFF	OFF	OFF	ON
122	ON	OFF	ON	OFF	OFF	OFF	OFF	ON
123	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON
124	ON	ON	OFF	OFF	OFF	OFF	OFF	ON
125	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON
126	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON
127	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON

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RESS								
R	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
8	5	5	5	5	S	5	S	S
⋖								
128	ON	ON	ON	ON	ON	ON	ON	OFF
129 130	OFF ON	ON OFF	ON	ON	ON ON	ON ON	ON	OFF OFF
131	OFF	OFF	ON	ON	ON	ON	ON	OFF
132	ON	ON	OFF	ON	ON	ON	ON	OFF
133	OFF	ON	OFF	ON	ON	ON	ON	OFF
134 135	ON OFF	OFF OFF	OFF OFF	ON ON	ON ON	ON ON	ON	OFF OFF
136	ON	ON	ON	OFF	ON	ON	ON	OFF
137	OFF	ON	ON	OFF	ON	ON	ON	OFF
138 139	ON OFF	OFF OFF	ON	OFF OFF	ON	ON	ON	OFF OFF
140	ON	ON	OFF	OFF	ON	ON	ON	OFF
141	OFF	ON	OFF OFF	OFF	ON	ON	ON	OFF
142	OFF	OFF	OFF	OFF	ON	ON	ON	OFF OFF
143 144	OFF ON	OFF ON	OFF ON	OFF ON	ON OFF	ON	ON	OFF
145	OFF	ON	ON	ON	OFF	ON	ON	OFF
146	ON	OFF	ON	ON	OFF	ON	ON	OFF
147 148	OFF ON	OFF ON	ON OFF	ON	OFF OFF	ON ON	ON	OFF OFF
149	OFF	ON	OFF	ON	OFF	ON	ON	OFF
150	ON	OFF	OFF	ON	OFF	ON	ON	OFF
151	OFF	OFF	OFF	ON	OFF OFF	ON	ON	OFF
152 153	ON OFF	ON ON	ON	OFF OFF	OFF	ON ON	ON	OFF OFF
154	ON	OFF	ON	OFF	OFF	ON	ON	OFF
155	OFF	OFF	ON	OFF	OFF	ON	ON	OFF
156 157	ON OFF	ON ON	OFF OFF	OFF OFF	OFF OFF	ON ON	ON ON	OFF OFF
158	ON	OFF	OFF	OFF	OFF	ON	ON	OFF
159	OFF	OFF	OFF	OFF	OFF	ON	ON	OFF
160	ON	ON	ON	ON	ON	OFF	ON	OFF
161 162	OFF ON	ON OFF	ON	ON	ON ON	OFF OFF	ON	OFF OFF
163	OFF	OFF	ON	ON	ON	OFF	ON	OFF
164	ON	ON	OFF	ON	ON	OFF	ON	OFF
165 166	OFF ON	ON OFF	OFF OFF	ON	ON ON	OFF OFF	ON ON	OFF OFF
167	OFF	OFF	OFF	ON	ON	OFF	ON	OFF
168	ON	ON	ON	OFF	ON	OFF	ON	OFF
169	OFF	ON	NO	OFF	NO	OFF OFF	NO	OFF OFF
170 171	ON OFF	OFF OFF	ON ON	OFF OFF	ON	OFF	ON ON	OFF
172	ON	ON	OFF	OFF	ON	OFF	ON	OFF
173	OFF	ON	OFF	OFF	ON	OFF	ON	OFF
174 175	ON OFF	OFF OFF	OFF OFF	OFF OFF	ON	OFF OFF	ON	OFF OFF
176	ON	ON	ON	ON	OFF	OFF	ON	OFF
177	OFF	ON	ON	ON	OFF	OFF	ON	OFF
178 179	ON OFF	OFF OFF	ON ON	ON ON	OFF OFF	OFF OFF	ON	OFF OFF
180	ON	ON	OFF	ON	OFF	OFF	ON	OFF
181	OFF	ON	OFF OFF	ON	OFF	OFF	ON	OFF
182	ON	OFF	OFF	NO	OFF OFF	OFF	NO	OFF OFF
183 184	OFF ON	OFF ON	OFF ON	ON OFF	OFF	OFF OFF	ON	OFF
185	OFF	ON	ON	OFF	OFF	OFF	ON	OFF
186	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
187	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
188 189	ON OFF	ON	OFF OFF	OFF OFF	OFF OFF	OFF OFF	ON	OFF OFF
190	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF
191	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF

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193	AD								
194								OFF	OFF
195								OFF	OFF
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199									OFF
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201		ON			OFF				
203			ON		OFF				
204			OFF						
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206									
208									
209		OFF							
210								OFF	OFF
211								OFF	OFF
212			OFF					OFF	OFF
214		ON	ON	OFF				OFF	OFF
215						OFF			
216									
219					OFF	OFF		OFF	OFF
219					OFF	OFF		OFF	OFF
220			OFF						
221									
222					OFF				
224		ON							
225									
226									
228	226						OFF	OFF	OFF
230				ON			OFF	OFF	OFF
230				OFF			OFF	OFF	OFF
231							OFF	OFF	OFF
233									
234									
235									
237				ON	OFF	ON		OFF	OFF
238	236	ON	ON	OFF		ON	OFF	OFF	
239		OFF		OFF				OFF	
240								OFF	
241									
243 OFF OFF ON ON OFF OFF	241	OFF	ON	ON	ON	OFF	OFF	OFF	OFF
244									
245 OFF ON OFF ON OFF OFF OFF OFF OFF OFF O							OFF	OFF	OFF
246				OFF			OFF	OFF	OFF
248	246	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF
249 OFF ON ON OFF OFF OFF OFF OFF OFF OFF O				OFF			OFF	OFF	OFF
250 ON OFF ON OFF OFF OFF OFF OFF OFF OFF O									
251 252 253 254									
253 254	251								
254									
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Author: NRP Jones Date: 24/11/2023

Other Information

Like all electronic equipment, at the end of it's working life this unit should not be disposed of in a refuse bin.

It should be taken to a local reprocessing site as per the guidelines of the WEEE directive, for correct disposal.



CE	UK
2831	0832

Zeta Alarms Limited 72-78 Morfa Road, Swansea SA1 2EN

17 23 2831-CPR-F2045 0832-UKCA-CPR-Fxxxx 2831-CPR-F2047 0832-UKCA-CPR-Fxxxx

> EN54-3:2014 +A1:2019 Alarm Devices - Sounder Type A: For Indoor Use MKII-AXT/R (W)

EN 54-3:2001 + A1:2002 + A2:2006, EN 54-23: 2010 Alarm Devices - Sounder & VAD Type A: For Indoor Use MKII-AXTB/R (W)

Other Technical Data: See Doc: "Addressable Xtratone Product file" held by the manufacturer

Zeta Alarms Ltd, 72-78 Morfa Road, Swansea SA1 2EN

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