

# ADDRESSABLE XTRATONE SOUNDER BEACON INSTALLATION MANUAL









## **Description**

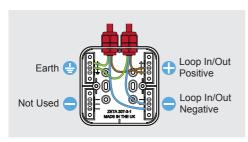
The Xtratone addressable sounder beacon is a small, high output device, suitable for indoor wall mounted applications.

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.

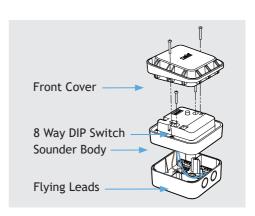
## Connections - First Fix

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
- Fit the sounder front cover



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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

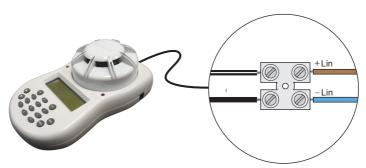
The Switch settings can be calculated using these numbers. EG 21 = 16 +4 +1, so Switches 1,3 & 5 are off, all the others are on. The maximum address is 250. For convenience a table of all address settings can be found at the end of the manual.

## **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	-	-	-

<sup>\*</sup> 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**

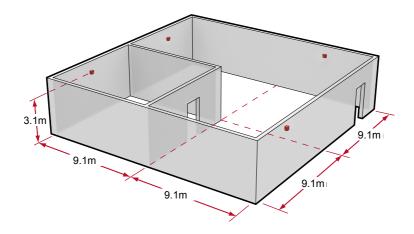
The Xtratone sounder beacon has a 4 way dip switch for configuring the flasher. Switches 1 to 3 configure the flasher as shown below. Switch 4 is for future use. Setting 1 gives the specified flasher rating.

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%

<sup>\*</sup> 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	e 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 mA max 19-44 mA (depends on setting)					
Sounder Type		Type A (In	door use)			
Operating Temperature		-10°C to	o +55°C			
Minimum Continuous Operating Temperature		0°	PC .			
Max Humidity		95% RH Non	Condensing			
IP Rating		IP2	:1C			
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	21	0g		

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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ADDRESS	SW1	SW2	SW3	SW4	SW5	9MS	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	ON	ON	ON	ON	ON
5	OFF	ON	OFF	ON	ON	ON	ON	ON
6	ON	OFF	OFF	ON	ON	ON	ON	ON
8	OFF ON	OFF ON	OFF ON	ON OFF	ON	ON	ON ON	ON ON
9	OFF	ON	ON	OFF	ON	ON	ON	ON
10	ON	OFF	ON	OFF	ON	ON	ON	ON
11	OFF	OFF	ON	OFF	ON	ON	ON	ON
12	ON	ON	OFF OFF	OFF	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	NO	ON
16 17	ON OFF	ON	ON	ON	OFF OFF	ON ON	ON ON	ON ON
18	ON	ON OFF	ON 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	NO
26 27	ON OFF	OFF OFF	ON	OFF OFF	OFF OFF	ON ON	ON ON	ON ON
28	ON	ON	OFF	OFF	OFF	ON	ON	ON
29	OFF	ON	OFF	OFF	OFF	ON	ON	ON
30	ON	OFF	OFF	OFF	OFF	ON	ON	ON
31	OFF	OFF	OFF	OFF	OFF	ON	ON	ON
32	ON	ON	ON	ON	ON	OFF	ON	ON
33	OFF	ON	ON	ON	ON	OFF	ON	NO
34 35	ON OFF	OFF OFF	ON ON	ON	ON	OFF OFF	ON	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 OFF	NO	OFF OFF	NO	OFF OFF	NO	ON
43	OFF ON	OFF	ON OFF	OFF	ON	OFF	ON	ON ON
45	OFF	ON	OFF	OFF	ON	OFF	ON	ON
46	ON	OFF	OFF	OFF	ON	OFF	ON	ON
47	OFF	OFF	OFF	OFF	ON	OFF	ON	ON
48	ON	ON	ON	ON	OFF	OFF	ON	ON
49	OFF	ON	ON	ON	OFF	OFF	ON	ON
50	ON	OFF	ON	ON	OFF	OFF	ON	ON
51	OFF	OFF	ON	NO	OFF	OFF	NO	ON
52 53	ON OFF	ON	OFF OFF	ON	OFF OFF	OFF OFF	ON	ON ON
54	ON	ON OFF	OFF	ON		OFF	ON	ON
55	OFF	OFF	OFF	ON	OFF 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	ON	OFF	OFF	OFF	ON	ON
59	OFF	OFF	ON	OFF	OFF	OFF	ON	ON
60	ON	ON	OFF	OFF	OFF	OFF	ON	ON
61	OFF	ON OFF	OFF OFF	OFF OFF	OFF	OFF	ON	ON
62	ON			-	OFF	OFF	ON	NO
63	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON

DRESS								
SE	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
ADI	S	5	S	5	5	5	5	S
64	ON	ON	ON	ON	ON	ON	OFF	ON
65	OFF	ON	ON	ON	ON	ON	OFF	ON
66	ON	OFF	NO	NO	ON	ON	OFF OFF	ON
67 68	OFF ON	OFF ON	ON OFF	ON ON	ON	ON	OFF	ON 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 73	ON	NO	NO	OFF OFF	ON	ON	OFF OFF	ON
74	OFF ON	ON OFF	ON ON	OFF	ON	ON	OFF	ON
75	OFF	OFF	ON	OFF	ON	ON	OFF	ON
76	ON	ON	OFF	OFF	ON	ON	OFF	ON
77	OFF	ON	OFF	OFF	ON	ON	OFF	ON
78 79	ON	OFF OFF	OFF OFF	OFF OFF	NO	ON	OFF OFF	ON ON
80	OFF ON	ON	ON	ON	ON OFF	ON	OFF	ON
81	OFF	ON	ON	ON	OFF	ON	OFF	ON
82	ON	OFF	ON	ON	OFF	ON	OFF	ON
83	OFF	OFF	ON	ON	OFF	ON	OFF	ON
84 85	ON OFF	ON	OFF OFF	NO	OFF	NO	OFF	ON
86	ON	ON OFF	OFF	ON ON	OFF OFF	ON ON	OFF OFF	ON 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 OFF	ON	OFF	OFF	ON	OFF	ON
91 92	OFF ON	ON	ON OFF	OFF OFF	OFF OFF	ON	OFF OFF	ON ON
93	OFF	ON	OFF	OFF	OFF	ON	OFF	ON
94	ON	OFF	OFF	OFF	OFF	ON	OFF	ON
95	OFF	OFF	OFF	OFF	OFF	ON	OFF	ON
96	ON	ON	ON	ON	ON	OFF	OFF OFF	ON
97 98	OFF ON	OFF	ON	ON	ON ON	OFF OFF		ON
99	OFF	OFF	ON	ON	ON	OFF	OFF OFF	ON
100	ON	ON	OFF	ON	ON	OFF	OFF	ON
101	OFF	ON	OFF	ON	ON	OFF	OFF	ON
102	ON	OFF	OFF	ON	ON	OFF	OFF	ON
103 104	OFF ON	OFF ON	OFF ON	ON OFF	ON	OFF OFF	OFF OFF	ON 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	NO
109 110	OFF ON	ON OFF	OFF OFF	OFF OFF	ON	OFF OFF	OFF OFF	ON ON
111	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	OFF OFF	ON	ON	OFF OFF	OFF OFF	OFF OFF	ON
115 116	OFF	OFF	ON OFF	ON ON	OFF	OFF	OFF	ON ON
117	OFF	ON	OFF	ON	OFF	OFF	OFF	ON
118	ON	OFF	OFF	ON	OFF	OFF	OFF	ON
119	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON
120	ON	ON	ON	OFF	OFF	OFF	OFF	ON
121 122	OFF ON	ON OFF	ON	OFF OFF	OFF OFF	OFF OFF	OFF OFF	ON 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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	Y				1	·		
ADDRESS	SW1	SW2	SW3	SW4	SW5	9MS	ZW2	SW8
128	ON	ON	ON	ON	ON	ON	ON	OFF
129	OFF	ON	ON	ON	ON	ON	ON	OFF
130	ON	OFF	ON	ON	ON	ON	ON	OFF
131	OFF	OFF	ON	ON	ON	ON	ON	OFF
132	ON	ON	OFF	ON	ON	ON	ON	OFF
133	OFF	ON OFF	OFF OFF	NO	NO	ON	ON	OFF OFF
134	ON OFF	OFF	OFF	ON	ON	ON	ON	OFF
136	ON	ON	ON	OFF	ON	ON	ON	OFF
137	OFF	ON	ON	OFF	ON	ON	ON	OFF
138	ON	OFF	ON	OFF	ON	ON	ON	OFF
139	OFF	OFF	ON	OFF	ON	ON	ON	OFF
140	ON	ON	OFF OFF	OFF OFF	ON	ON	ON	OFF OFF
141	OFF ON	OFF			ON	ON	ON ON	
143	OFF	OFF OFF	OFF OFF	OFF OFF	ON	ON	ON	OFF OFF
144	ON	ON	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	OFF	OFF	ON	ON	OFF	ON	ON	OFF
148 149	ON OFF	ON ON	OFF OFF	ON	OFF OFF	ON ON	ON ON	OFF OFF
150	ON	OFF	OFF	ON	OFF	ON	ON	OFF
151	OFF	OFF	OFF	ON	OFF	ON	ON	OFF
152	ON	ON	ON	OFF	OFF	ON	ON	OFF
153	OFF	ON	ON	OFF	OFF	ON	ON	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	OFF	ON	ON	ON	ON	OFF	ON	OFF
162	ON	OFF	ON	ON	ON	OFF	ON	OFF
163	OFF	OFF	ON OFF	NO	ON	OFF OFF	NO	OFF OFF
164 165	ON OFF	ON ON	OFF	ON ON	ON ON	OFF	ON ON	OFF
166	ON	OFF	OFF	ON	ON	OFF	ON	OFF
167	OFF	OFF	OFF	ON	ON	OFF	ON	OFF
168	ON	ON	ON	OFF	ON	OFF	ON	OFF
169	OFF	ON	ON	OFF	ON	OFF	ON	OFF
170 171	ON OFF	OFF OFF	ON	OFF OFF	ON ON	OFF OFF	ON ON	OFF OFF
172	ON	ON	OFF	OFF	ON	OFF	ON	OFF
173	OFF	ON	OFF	OFF	ON	OFF	ON	OFF
174	ON	OFF	OFF	OFF	ON	OFF	ON	OFF
175	OFF	OFF	OFF	OFF	ON	OFF	ON	OFF
176	ON	ON	ON	ON	OFF	OFF	ON	OFF
177	OFF	ON OFF	ON	ON	OFF OFF	OFF OFF	ON	OFF OFF
178	ON OFF	OFF	ON	ON	OFF	OFF	ON	OFF
180	ON	ON	OFF	ON	OFF	OFF	ON	OFF
181	OFF	ON	OFF	ON	OFF	OFF	ON	OFF
182	ON	OFF	OFF	ON	OFF OFF	OFF OFF	ON	OFF OFF
183	OFF	OFF	OFF	ON			ON	
184	ON OFF	ON	ON	OFF OFF	OFF OFF	OFF OFF	ON	OFF OFF
185 186	ON	OFF	ON	OFF	OFF	OFF	ON ON	OFF
187	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
188	ON	ON	OFF	OFF	OFF	OFF	ON	OFF
189	OFF	ON	OFF	OFF	OFF	OFF	ON	OFF
190	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF
191	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF

192   ON   ON   ON   ON   ON   OF   OFF     193   OFF   ON   ON   ON   ON   ON   OF   OF									
192	SS								
192	뿞	5	72	\ <u>3</u>	4	<b>V</b> 2	9	77	8
192	ᅙ	S	S	S	S	S	S	S	S
193	¥								
193	197	ON	ON	ON	ON	ON	ON	OFF	OFF
194									
196									
197		OFF	OFF	ON	ON	ON	ON		
198									
199									
200		OFF							
201		ON							
202									
203									
205							ON		
206									
208									
208			OFF		OFF			OFF	OFF
209						OFF		OFF	OFF
210						OFF			OFF
211	210	ON	OFF			OFF		OFF	OFF
213						OFF			
214									
215					ON				
216									
217									
218         ON         OFF         ON         OFF         ON         OFF         ON         OFF         ON         OFF         ON         OFF         OFF         ON         OFF					OFF				
220	218	ON	OFF	ON	OFF		ON	OFF	OFF
221								OFF	
222									
223									
225								OFF	OFF
225							OFF	OFF	OFF
226	225						OFF	OFF	OFF
227	226	ON				ON	OFF		OFF
229	227								
230									
231									
232									
234					OFF	ON		OFF	OFF
235	233		ON		OFF		OFF	OFF	
235			OFF		OFF			OFF	OFF
237			OFF						
238									
239									
240									
241		ON		ON		OFF	OFF	OFF	OFF
242         ON         OFF         ON         ON         OFF	241	OFF	ON	ON	ON	OFF	OFF	OFF	OFF
244			OFF			OFF	OFF	OFF	OFF
245			OFF			OFF	OFF	OFF	OFF
246									
247 OFF OFF OFF ON OFF OFF OFF OFF OFF OFF									
248   ON   ON   ON   OFF   O									
249         OFF         ON         ON         OFF	248	ON	ON	ON	OFF	OFF	OFF	OFF	OFF
251			ON	ON					
252 253 254		ON	OFF	ON	OFF	OFF	OFF	OFF	OFF
253 254									
254				_				_	
	255								

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#### 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.



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Zeta Alarms Limited 72-78 Morfa Road, Swansea SA1 2EN 17 2831-CPR-F2045 2831-CPR-F2047

EN54-3:2001+A1:2002 + A2: 2006

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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