

# FYREYE MKII ADDRESSABLE SOUNDER CONTROL MODULE WITH ISOLATOR **INSTALLATION GUIDE**

#### General

The Fyreye MkII Addressable Sounder Control Module is supplied with a backbox for surface mounting.

NOTE: The Sounder Control Module is designed for indoor use only.

This module is NOT LOOP POWERED, an adequate 24Vdc input is required with the necessary battery back up. Note the input voltage should provide adequate current to operate the ZASC-MI in addition to operating the connected alarm load.

Model No: ZASC-MI Fyreye MkII Addressable Sounder Control Module With Isolator

### **Surface Mounting**

- 1. Mount the backbox as required and install all cables for termination.
- 2. Set the address of the unit as shown on page 3.
- Terminate all cables. 3
- Gently push the completed assembly towards the back box until the mounting holes are aligned and secure with the two mounting screws provided. DO NOT OVERTIGHTEN.

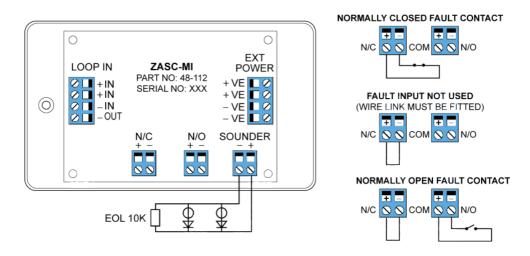
#### Isolator Module

The Sounder Control Module is fitted with a bi-directional short-circuit isolator and will be unaffected by loop short-circuits on either loop input or output.

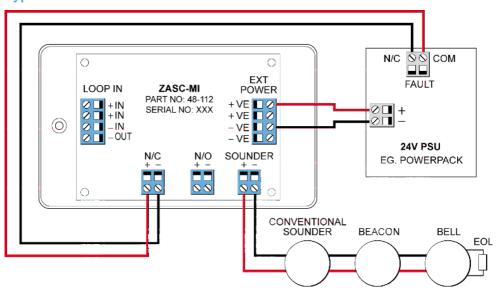
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### **Wiring Details**

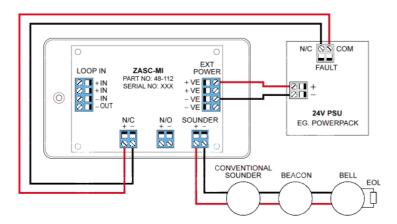
All wiring terminals will accept solid or stranded cables up to 2.5mm<sup>2</sup>



# **Typical Connections**



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# **Technical Specification**

Model	ZASC-MI
Part Number	48-112
Operating Voltage (Loop)	17 - 28V DC
Quiescent Current (Loop)	0.6 mA
Fault Current (Loop)	0.6 mA
Sounder On Current (Loop)	0.8 mA
Operating Voltage (Ext. Power)	9-32V DC
Quiescent Current (Ext. @ 24V)	2 mA
Sounder On Current (Ext. @ 9V)	2.5mA Plus Sounder Load
Sounder On Current (Ext. @ 32V)	9.5mA Plus Sounder Load
Sounder Output Rating	500 mA
Isolating Current	7.3mA
Sounder End of Line	10K (tolerance 7.5K to 15K)
Operating Temperature	-10°C to +55°C
Max Humidity	95% RH Non Condensing
IP Rating	IP21C
Size	150 x 90 x 45 mm
Weight	220g

For information on the short circuit isolator operation see document GLT-224-6-9 available from your distributor.

# **Address Setting**

The address of the Sounder Control Module is set using the eight segments of the DIL switch. Each segment of the switch must be set to "0"(ON) or "1"(OFF), using a small screwdriver or similar tool. A complete list of address settings is shown overleaf. The maximum address is 250.

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	1	1		1	1	1		
ADDRESS	SW1	SW2	SW3	SW4	SW5	SW6	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 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	OFF	ON	OFF	ON	ON	NO	ON
12	ON OFF	ON ON	OFF OFF	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 OFF	ON	NO	ON
30	ON 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	NO	OFF	ON	OFF	NO	ON
43	OFF ON	OFF ON	ON OFF	OFF OFF	ON	OFF OFF	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	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	NO	OFF	OFF	OFF	NO	ON
58	ON	OFF OFF	ON ON	OFF OFF	OFF OFF	OFF OFF	ON	ON
59 60	OFF ON	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
0.3	OFF.	OFF.	OFF	OFF	OFF	OFF	UN	UN

	1	1			1	1	1	
SS								
DRESS	Ξ	SW2	SW3	4	SW5	SW6	<u>L</u>	SW8
<u> </u>	SW1	<u> </u>	<u> </u>	SW4	l ≨	l ≶	SW7	l ≶
₽								
(1	ON	011	011	011	011	ON	OFF	ON
64 65	ON OFF	ON	ON	ON ON	ON ON	ON ON	OFF OFF	ON ON
66	ON	ON OFF	ON	ON	ON	ON	OFF	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	NO	OFF	ON
73 74	OFF ON	ON OFF	ON ON	OFF OFF	ON	ON	OFF OFF	ON 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	ON	OFF OFF	OFF	OFF	ON	ON	OFF	ON
79	OFF		OFF	OFF	ON	ON	OFF	ON
80	ON	ON	ON	ON	OFF	ON	OFF	ON
81	OFF	ON	NO	NO	OFF	NO	OFF	ON
82	ON OFF	OFF	ON	ON	OFF OFF	ON	OFF OFF	ON
84	ON	OFF ON	ON OFF	ON	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 92	OFF	OFF	ON OFF	OFF OFF	OFF OFF	ON ON	OFF	ON ON
93	ON OFF	ON	OFF	OFF	OFF	ON	OFF 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 OFF	ON
97	OFF	ON	ON	ON	ON		OFF	ON
98	ON	OFF	ON	ON	ON	OFF	OFF	ON
99	OFF	OFF	ON	ON	ON	OFF	OFF	ON
100	ON OFF	ON	OFF OFF	ON ON	ON	OFF OFF	OFF OFF	ON ON
102	ON	OFF	OFF	ON	ON	OFF	OFF	ON
103	OFF	OFF	OFF	ON	ON	OFF	OFF	ON
104	ON	ON	ON	OFF	ON	OFF	OFF	ON
105	OFF	ON	ON	OFF 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	NO	OFF	OFF	ON
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	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	ON	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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	1							
ADDRESS	SW1	SW2	SW3	SW4	SWS	9WS	SW7	SW8
_								
128	ON OFF	ON	ON	ON	ON	ON	NO	OFF
129 130	OFF	ON	ON ON	ON	ON ON	ON ON	ON	OFF OFF
131	OFF	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	ON	OFF	OFF	ON	ON	ON	ON	OFF
135	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
138 139	ON OFF	OFF OFF	ON	OFF OFF	ON ON	ON	ON	OFF
140	ON	ON		OFF	ON	ON	ON	OFF OFF
141	OFF	ON	OFF OFF	OFF	ON	ON	ON	OFF
142	ON	OFF	OFF	OFF	ON	ON	ON	OFF
143	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
147 148	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		ON	ON	OFF
152	ON	ON	ON	OFF	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	ON	ON	OFF	OFF	OFF	ON	NO	OFF
157 158	OFF ON	ON OFF	OFF OFF	OFF OFF	OFF OFF	ON ON	ON	OFF 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	ON	ON	OFF	ON	OFF
164	ON	ON	OFF	ON	ON	OFF	NO	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	ON	OFF	ON	OFF	ON	OFF
170	ON	OFF OFF	ON	OFF	ON	OFF	ON	OFF
171	OFF		ON	OFF	ON	OFF	ON	OFF
172	ON	ON	OFF	OFF	ON	OFF	ON	OFF
173 174	OFF	ON	OFF	OFF	ON	OFF	ON	OFF
174	ON OFF	OFF OFF	OFF OFF	OFF OFF	ON ON	OFF OFF	ON ON	OFF OFF
176	ON	ON	ON	ON	OFF	OFF	ON	OFF
177	OFF	ON	ON	ON	OFF	OFF	ON	OFF
178	ON	OFF	ON	ON	OFF	OFF	ON	OFF
179	OFF	OFF	ON	ON	OFF	OFF	ON	OFF
180	ON	ON	OFF OFF	ON	OFF	OFF	ON	OFF
181	OFF	ON		ON	OFF	OFF	ON	OFF
182	ON	OFF OFF	OFF OFF	ON	OFF OFF	OFF OFF	ON	OFF OFF
183 184	OFF ON			ON	OFF	OFF	ON ON	OFF
185	OFF	ON ON	ON ON	OFF OFF	OFF	OFF	ON	OFF
186	ON	OFF	ON	OFF	OFF	OFF	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

	1							
SS								
DRESS	Ξ	7	3	4	72	9/	1	∞
ద	SW1	SW2	SW3	SW4	SW5	SW6	ZW2	SW8
A								
102	ON	ON	ON	ON	ON	ON	OFF	OFF
192 193	ON OFF	ON ON	ON ON	ON	ON	ON	OFF OFF	OFF
194	ON	OFF	ON	ON	ON	ON	OFF	OFF
195	OFF	OFF	ON	ON	ON	ON	OFF	OFF
196	ON	ON	OFF	ON	ON	ON	OFF	OFF
197	OFF	ON	OFF	ON	ON	ON	OFF	OFF
198	ON	OFF	OFF	ON	ON	ON	OFF	OFF
199	OFF	OFF	OFF	ON	ON	ON	OFF	OFF
200	ON OFF	ON	NO	OFF OFF	NO	ON	OFF OFF	OFF OFF
201	ON	ON OFF	ON ON	OFF	ON	ON	OFF	OFF
203	OFF	OFF	ON	OFF	ON	ON	OFF	OFF
204	ON	ON	OFF	OFF	ON	ON	OFF	OFF
205	OFF	ON	OFF	OFF	ON	ON	OFF	OFF
206	ON	OFF OFF	OFF OFF	OFF OFF	ON	ON	OFF OFF	OFF OFF
207	OFF	OFF	OFF	OFF	ON	ON	OFF	OFF
208	ON	ON	ON	ON	OFF	ON	OFF	OFF
209	OFF	ON OFF	ON	ON	OFF OFF	ON	OFF OFF	OFF OFF
210 211	ON OFF	OFF	ON ON	ON	OFF	ON ON	OFF	OFF
212	ON	ON	OFF	ON	OFF	ON	OFF	OFF
213	OFF	ON	OFF	ON	OFF	ON	OFF	OFF
214	ON	OFF	OFF	ON	OFF	ON	OFF	OFF
215	OFF	OFF	OFF	ON	OFF	ON	OFF	OFF
216	ON	ON	ON	OFF	OFF	ON	OFF	OFF
217	OFF	ON	ON	OFF	OFF	ON	OFF	OFF
218	ON	OFF	ON	OFF	OFF	ON	OFF	OFF
219 220	OFF ON	OFF ON	ON OFF	OFF OFF	OFF OFF	ON	OFF OFF	OFF OFF
221	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
222	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF
223	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF
224	ON	ON	ON	ON	ON	OFF	OFF OFF	OFF OFF
225	OFF	ON	ON	ON	ON	OFF	OFF	OFF
226	ON	OFF OFF	ON	ON	ON	OFF OFF	OFF OFF	OFF OFF
227	OFF		ON	ON	ON	OFF	OFF	OFF
228 229	ON OFF	ON	OFF OFF	ON ON	ON	OFF OFF	OFF OFF	OFF OFF
230	ON	OFF	OFF	ON	ON	OFF	OFF	OFF
231	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF
232	ON	ON	ON	OFF	ON	OFF	OFF	OFF
233	OFF	ON	ON	OFF	ON	OFF	OFF	OFF
234	ON	OFF OFF	ON	OFF	ON	OFF	OFF	OFF
235	OFF	OFF	ON	OFF	ON	OFF	OFF	OFF
236	ON	ON	OFF OFF	OFF OFF	NO	OFF	OFF	OFF
237	OFF ON	ON OFF	OFF	OFF	ON	OFF OFF	OFF OFF	OFF OFF
239	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF
240	ON	ON	ON	ON	OFF	OFF	OFF	OFF
241	OFF	ON	ON	ON	OFF	OFF	OFF	OFF
242	ON	OFF	ON	ON	OFF	OFF	OFF OFF	OFF OFF
243	OFF	OFF	ON	ON	OFF	OFF OFF	OFF	OFF
244	ON	ON	OFF	ON	OFF	OFF	OFF	OFF
245	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF OFF
246 247	ON OFF	OFF OFF	OFF OFF	ON ON	OFF OFF	OFF OFF	OFF OFF	OFF
248	ON	ON	ON	OFF	OFF	OFF	OFF	OFF
249	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF
250	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF
251								
252								
253								
254								
255								

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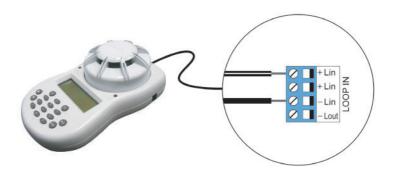
Author: NRP Jones Date: 10/05/2021

## **Alternative Soft Addressing Option**

Using our hand held MkII programmer (Part No: 48-004), the unit 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



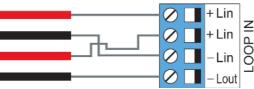
Step 3: Follow the procedure as described in the handheld programmer manual.

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.

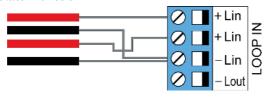
#### **Isolator Function**

The Isolator Function can be enabled or disabled according to the wiring method.

B. Enabling the Isolator Function



A. By-passing the Isolator Function



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#### **LED Indications**

Status	LED Indication
Alarm	Illuminated red when the Sounder Control Module is in alarm
Fault	Illuminated yellow when the Sounder Control Module is in fault
Open	Illuminated yellow when the sounder input is in open state
Short	Illuminated yellow when the sounder input is in short state
Polling	Flashed green when the module is communicating with the panel
Isolating	Illuminated yellow when the loop is short or wrong connection circuit
Ext Power	Illuminated green when Ext Power is connected correctly
Input	Illuminated when no external fault signal present

### **Functional Test Data**

Command Bit	Function	Input Bit	Function
3	Not Used	3	Not Used
2	Not Used	2	Not Used
1	PULSED MODE	1	PULSE MODE CONFIRMED
	1 = Pulsed Mode On		1 = Pulsed Mode On Confirmed
	0 = Pulsed Mode Off		0 = Pulsed Mode Off Confirmed
0	CONTINUOUS MODE	0	CONTINUOUS MODE CONFIRMED
	1 = Continuous Mode On		1 = Continuous Mode On Confirmed
	0 = Continuous Mode Off		0 = Continuous Mode Off Confirmed

# **Analogue Return Back**

Analogue value	08	72
State	Open/short circuit	Normal
LED State		

# **Troubleshooting**

Before investigating individual units for faults, it is very important to check that the system wiring is fault free. Many fault conditions are the result of simple wiring errors. Check all connections to the unit and make sure that the correct value resistors are fitted where necessary.

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## **Faultfinding**

Problem	Possible Cause
No response or missing	Incorrect address setting
	Incorrect loop wiring
Fault condition reported	Ilncorrect address setting
	Incorrect wiring of sounder zone or fault input
	Faulty sounder
	Local supply faulty or polarity incorrect
	Fuse blown on sounder PCB
Sounders do not operate	Incorrect wiring
	Fuse blown on sounder PCB
	Incorrect cause and effect programming
	Faulty sounder
	Panel Fault
Sounders operate continuously	Incorrect sounder zone wiring
Analogue value unstable	Dual address
	Loop data fault, data corruption

<b>C €</b> 0905
Zeta Alarms Limited, 72-78 Morfa Road, Swansea SA1 2EN
14
GLT-234-DoP-1
EN54-18: 2005 EN54-17: 2005

Fire detection and fire alarm systems - Input/Output Devices Fire detection and fire alarm systems - Short Circuit Isolators

Zeta Addressable Sounder Control Module with Isolator ZASC-MI

Intended for use in fire detection and fire alarm systems in and around buildings

Response delay (response time) - PASS Performance under fire conditions - PASS Operational reliability - PASS

Durability of operational reliability: temperature resistance - PASS Durability of operational reliability; vibration resistance - PASS Durability of operational reliability; humidity resistance - PASS Durability of operational reliability; corrosion resistance - PASS Durability of operational reliability; electrical stability - PASS

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