Teledataone

SOUND110_AP
Addressed Sounder With Flashing Light
EN54-3 /EN54-23
With Integrated Short Circuit Isolator

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Description

SOUND110_AP is a loop powered type A for indoor use sounder in conformity with standard EN54-3 and EN54-23.

Each sounder is provided with integrated EN54-17 isolator circuit, that automatically takes action in case of need. Addresses can be programmed by means of the programmer or with the addressing function of Teledata fire alarm panels

Technical Specifications

Loop's voltage	27V
Average current consumption	120 uA (@ 27V)
Current consumption	28 mA (@ 27V-line)
Voltage on siren	24Vdc
Power	1,45W
Sounder output	80-100dB
Coverage	W-2,4-5
Operating temperature range	From –10°C (min) to +55 °C (max)
Humidity	85% RH (no condensation)
Dimensions	Diam: 100mm Height: 125mm
Maximum wire gauge	1.5 mm2
IP rate	IP 65

Caution

Disconnect loop power before installing the sounders.

WARNING
Electrostatic Sensitive Device.
Observe precautions when handling and making connections.

Setting The Address

Modules can be addressed by using a special hand-held programming unit **(ONEPROGRAMMER_AP)**.
Addresses may be selected over the range from 1 to 240, although, of course, each device on the loop must have a unique address.

• Connect the programmer to the module using the proper cable (refer to the **ONEPROGRAMMER_AP** instruction manual).

• Installing all modules and other loop devices, apply power to the loop in accordance with the panel's installation instructions.

Device's Mounting

According to local electrical regulations, mount securely to a single gang box using the provided screws.

Maintenance

Test the siren periodically according to local codes of practice. Those devices contain no serviceable part, so, should a fault develop, return them to your system supplier for exchange or disposal, according to warranty conditions.

Siren Module Configuration Fig.1

To connect the sounder it's necessary to connect it on the loop respecting loop polarity.

Sounder has insulator on board; It works between two negatives (1&3 pin).

	Terminal	Description
1	Loop line IN (-)	Loop Negative input
2	Loop line OUT (-)	Loop Negative output
3	Loop line IN (+)	Loop Positive input
4	Loop line OUT (+)	Loop Positive output

Fig. 1

Sound Configuration

8 7 6 5 4 3 2 1
ON
Fg.2a   Fg.2b   Fg.2c
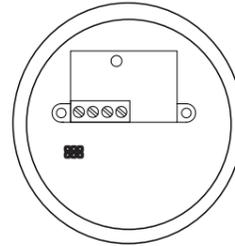
Fig.2a FLASHING LIST

No	Switch (8)	Flashing Frequence
1	0	1 Hz
2	1	0,5 Hz

Fig.2c VOLUME LIST

No	Switch (1-2)	Name	Volume
1	0-0	Low	Low
2	0-1	Med1	Medium 1
3	1-0	Med2	Medium 2
4	1-1	High	High

Approved Minimum Sound At 1 Mt

800-1000 Hz swept every 50 0ms (2 Hz), High Volume	
Angle	Sound Output dBA
15˚	88
45˚	89
75˚	91
105˚	91
135˚	89
165˚	88

800 Hz continuous, High Volume	
Angle	Sound Output dBA
15˚	85
45˚	87
75˚	88
105˚	88
135˚	87
165˚	85

970 Hz continuous, High Volume	
Angle	Sound Output dBA
15˚	86
45˚	88
75˚	89
105˚	89
135˚	88
165˚	86

554 Hz for 100 ms, then 440 Hz for 400 ms, High Volume	
Angle	Sound Output dBA
15˚	89
45˚	91
75˚	93
105˚	93
135˚	91
165˚	89

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Sound Configuration Fig.2b

No.	Name	Frequency	Switch (7-6-5-4-3)
1	LF Sweep	800-1000Hz swept every 500ms (2Hz)	0-0-0-0-0
2	Alternative warble BS	800Hz for 250ms, then 960Hz for 250ms	0-0-0-0-1
3	Warble Tone BS	800Hz for 500ms, then 1000Hz for 500ms	0-0-0-1-0
4	Alternative warble BS	500Hz for 250ms, then 600Hz for 250ms	0-0-0-1-1
5	HF Back up Interrupted	2800Hz for 1000ms, then off for 1000ms	0-0-1-0-0
6	LF Back up Alarm	800Hz for 150ms, then off for 150ms	0-0-1-0-1
7	HF Back up Interrupted (fast)	2800Hz for 150ms, then off for 150ms	0-0-1-1-0
8	LF Continuous tone BS5839	800Hz continuous	0-0-1-1-1
9	Sweep - 1Hz	800-900Hz swept every 1000ms (1Hz)	0-1-0-0-0
10	Australian slow whoop	970Hz for 625ms, then off for 150m	0-1-0-0-1
11	Dutch sweep	970Hz continuous	0-1-0-1-0
12	Analogue sweep	500-600Hz swept every 500ms (2Hz)	0-1-0-1-1
13	Sweep - 3Hz	800-970Hz swept every 333ms (3Hz)	0-1-1-0-0
14	Alternate HF slow sweep	2350-2900Hz swept every 333ms (3Hz)	0-1-1-0-1
15	Fast HF sweep	2400-2800Hz swept every 143ms (7Hz)	0-1-1-1-0
16	US Temporal Pattern LF	950Hz for 500ms on, 500ms off (x3), then 1500ms off	0-1-1-1-1
17	Interrupted BS	800Hz for 500ms, then off for 500ms	1-0-0-0-0
18	ISO 8201 LF BS5839 Pt 1	970Hz for 500ms, then off for 500ms	1-0-0-0-1
19	Interrupted medium	1000Hz for 250ms, then off for 250ms	1-0-0-1-0
20	ISO8201 HF	2850Hz for 500ms, then off for 500ms	1-0-0-1-1
21	Continuous	1000Hz continuous	1-0-1-0-0
22	LF Buzz	800-950Hz swept every 9ms (110Hz)	1-0-1-0-1
23	HF Continuous	2800Hz continuous	1-0-1-1-0
24	Sweep	800-970Hz swept every 111ms (9Hz)	1-0-1-1-1
25	German DIN tone	1200-500Hz swept every 1000ms (1Hz)	1-1-0-0-0
26	Swedish Fire signal	660Hz for 150ms, then off for 150ms	1-1-0-0-1
27	French tone AFNOR	554Hz for 100ms, then 440Hz for 400ms	1-1-0-1-0
28	Swedish all clear signal	660Hz continuous	1-1-0-1-1
29	US Temporal Pattern HF	2900Hz for 500ms on, 500ms off (x3), then 1500ms off	1-1-1-0-0
30	Siren 2 way ramp (short)	500-1200Hz rising for 250ms, then falling for 250ms	1-1-1-0-1
31	FP1063.1-Telecom	800Hz for 250ms, then 970Hz for 250ms	1-1-1-1-0
32	Siren 2 way ramp (long)	500-1200Hz rising for 3000ms, then falling for 3000ms	1-1-1-1-1

Installing To Ensure Ip 65 Protection

To ensure IP 65 protection, back box must be drilled in pictures and hole must be protected with cable clamps as shown in fig.2 and fig.3

Diameter of holes must to be 13 mm.

Cable clamps must to be PG7 type.

Cable must to be in according to EN 50200 standards

Fig.2

Fig.3

Warnings And Limitations

Our devices use high quality electronic components and plastic materials that are highly resistant to environmental deterioration. However, after 10 years of continuous operation, it is advisable to replace the devices in order to minimize the risk of reduced performance caused by external factors. Ensure that this device is only used with compatible control panels. Detection systems must be checked, serviced and maintained on a regular basis to confirm correct operation.

Smoke sensors may respond differently to various kinds of smoke particles, thus application advice should be sought for special risks. Sensors cannot respond correctly if barriers exist between them and the fire location and may be affected by special environmental conditions. Refer to and follow national codes of practice and other internationally recognized fire engineering standards.

Appropriate risk assessment should be carried out initially to determine correct design criteria and updated periodically.

Warranty

This warranty is invalidated by mechanical or electrical damage caused in the field by incorrect handling or usage.

Product must be returned via your authorized supplier for repair or replacement together with full information on any problem identified.

Full details on our warranty and product's returns policy can be obtained upon request

CE

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**EN 54-3,
EN43-23 &
EN 54-17**

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0370-CPR-3645

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