Teledataone
SOUND100_AP
Addressed Sounder En54-3
With Short Circuit Isolator

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Description

SOUND100_AP is a loop powered type A for indoor use sounder in conformity with standard EN54-3.

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	7 mA (@ 27V-line)
Voltage on siren	24Vdc
Power	0,2W
Souder Output	80-100 dB
Operating temperature range	From –10°C (min) to +55 °C (max)
Humidity	85% RH (no condensation)
Dimensions	Diam: 100mm Height: 92mm
Maximum wire gauge	1.5 mm2
IP rate	IP 65

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).

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

Caution

Disconnect loop power before installing the Sounders

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

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Device's Mounting

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

Siren Module Configuration Fig.1

To connect the sounder is necessary connect it on the loop respecting loop polarity.
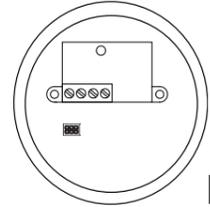Sounder has insulator on board; It work between two negative (1&3 pin)

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

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.

Fig. 1

Name	Jumper	Frequency	Sound Output dBA
Tone 1		2400-2800Hz swept every 143ms (7Hz)	97
Tone 2		600Hz for 500ms, then 1300Hz for 500ms	98
Tone 3		800Hz for 500ms, then 1000Hz for 500ms	94
Tone 4		2800Hz continuous	92

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Approved Minimum Sound At 1 Meter

2400-2800 Hz swept every 143 ms (7 Hz)	
Angle	Sound Output dBA
15˚	88
45˚	91
75˚	92
105˚	92
135˚	91
165˚	89

800 Hz for 500 ms, then 1000 Hz for 500 ms	
Angle	Sound Output dBA
15˚	91
45˚	92
75˚	95
105˚	97
135˚	91
165˚	90

600 Hz for 500 ms, then 1300 Hz for 500 ms	
Angle	Sound Output dBA
15˚	94
45˚	97
75˚	97
105˚	98
135˚	93
165˚	92

2800 Hz Continuous	
Angle	Sound Output dBA
15˚	89
45˚	89
75˚	91
105˚	91
135˚	89
165˚	89

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

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EN 54-3
EN 54-17

SOUND100_AP

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