Technical Manual for the Sounder – DB12

Please note that every care has been taken to ensure the accuracy of our technical manual. We do not, however, accept responsibility for damage, loss or expense resulting from any error or omission. We reserve the right to make alterations in line with technical advances and industry standards.

1. INTRODUCTION

These sounder units have been designed for use in harsh environmental conditions.

2. INSTALLATION

General

When installing and operating electrical equipment, requirements for selection, installation and operation should be referred to.

Additional national and/or local requirements may apply.

Ensure that all nuts, bolts and fixings are secure.

The DB12 Sounder should be positioned using the two available fixing holes in the base. MEDC recommend that stainless steel nuts and bolts be used, if the environment is corrosive.

The Sounder will operate in any attitude – from horizontal to vertical. However, it is important to note that the alignment of the Sounder should ensure that:-

– Dust or debris cannot lodge or settle in the cover apertures.

– Water from hoses, jets or rain cannot settle in the cover apertures.

Cable Termination

CAUTION: Before removing the cover assembly, ensure that the power to the unit is isolated.

Remove the cover/horn of the Sounder by unscrewing the 3 fixing screws, and pulling the cover/horn gently away from the base.

Cable termination should be in accordance with specifications applying to the application. MEDC recommend that all cables and cores should be fully identified.

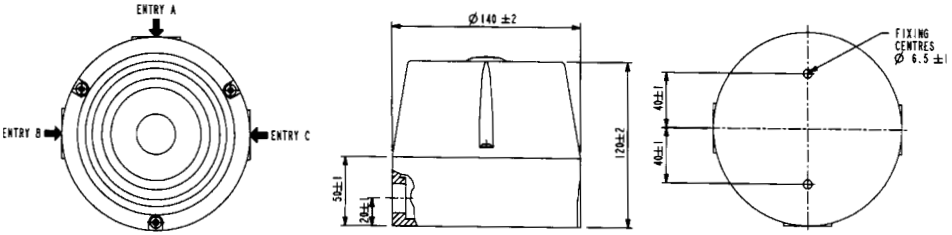
Ensure that only the correct cable glands are used and that the assembly is shrouded and correctly earthed.

All cable glands should be of an equivalent NEMA/IP rating to that of the sounder.

In order to maintain the NEMA/IP rating of the unit, the cable glands should be sealed to the unit using a suitable sealing washer.

Once termination is complete, replacing the cover/horn is a reverse process of the removal, but care should be ataken to ensure that the seal is securely located in its groove during re-assembly.

GENERAL ARRANGEMENT



3. OPERATION

The unit is initiated directly from the power source.

For all versions, a 5-way DIL switch selects the tone required from the list shown.

The DB12P unit can only be switched between any of the two tones listed by either:-

- Reversing the polarity of the power supply, or
- By a wire common +ve system, switching between the two –ve lines.

4. MAINTENANCE

During the working life of the sounder, it should require little or no maintenance. However, if abnormal or unusual environmental conditions occur due to plant damage or accident, etc., then visual inspection is recommended

If a fault should occur, it is recommmended that the unit be returned to MEDC for repair. All parts are replaceable.

If you have acquired a significant quantity of units, it is recommended that spares are also made available. Please discuss your requirements with the Technical Sales Engineers at MEDC.

5. OPERATING TEMPERATURE

–40°C to +55°C.
–40°F to +131°F.

	TONE FREQ/DESCRIPTION	SWITCH SETTING 12345	TONE DESCRIPTION	Nom O/P (dB(A) @1M)
1	Alt Tones 800/970 Hz at 1/4 sec	11111		99
2	Sweeping 800/970 Hz at 7Hz	11110	Fast Sweep(LF)	98
3	Sweeping 800/970 Hz at 1 Hz	11101	Med Sweep(LF)	99
4	Continuous at 2850 Hz	11100		109
5	Sweeping 2400-2850 Hz at 7 Hz	11011	Fast Sweep	107
6	Sweeping 2400-2850 Hz at 1 Hz	11010		110
7	Slow Whoop	11001	Slow Whoop	99
8	Sweep 1200-500 Hz at 1 Hz	11000	Din Tone	99
9	Alt Tones 2400/2850 Hz at 2 Hz	10111		109
10	Int Tone of 970 Hz at 1 Hz	10110	Back-Up Alarm(LF)	99
11	Alt Tones 800/970 Hz at 7/8 Hz	10101		99
12	Int Tone at 2850 Hz at 1Hz	10100	Back Up Alarm(HF)	109
13	970Hz at 1/4 sec on 1 sec off	10011		99
14	Continuous at 970 Hz	10010		100
15	554Hz for 100mS / 440 Hz for 400mS	10001	French Fire Sound	95
16	Int 660 Hz 150 mS on 150 mS off	10000	Swedish Fire Alarm	93
17	Int 660 Hz 1.8 sec on 1.8 sec off	01111	Swedish Fire Alarm	93
18	Int 660 Hz 6.5 sec on 13 sec off	01110	Swedish Fire Alarm	93
19	Continuous 660 Hz	01101	Swedish Fire Alarm	93
20	Alt 554/440 Hz at 1 Hz	01100	Swedish Fire Alarm	95
21	Int 660 Hz at 7/8 Hz	01011	Swedish Fire Alarm	93
22	Int 2850 Hz 150 mS on 100 mS off	01010	Pelican Crossing	109
23	Sweep 800-970 Hz at 50 Hz	01001	Low Freq Buzz	95
24	Sweep 2400-2850 Hz at 50 Hz	01000	High Freq Buzz	107
25	3 970Hz pulses 0.5on/0.5off, 1.5 off	00111		100
26	3 2850Hz pulses 0.5on/0.5off, 1.5 off	00110		109
27	Int 3100 Hz 0.32s on / 0.68s off	00101		109
28	Spare/Customer Tone	00100		
29	Spare/Customer Tone	00011		
30	Spare/Customer Tone	00010		
31	Spare/Customer Tone	00001		
32	Spare/Customer Tone	00000		

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