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EM80

SOUND LEVEL METER

Supco

Users Manual

■Introduction

Thank you for purchasing the SUPCO sound level meter. Please read the following information carefully before using the meter. The Sound Level Meter has been designed to measure sound level for various environments. It is used to detect noise, music level or sound engineering.

1.1 Precautions/ safety measures

Please operate the instrument under the following environmental conditions.

- Altitude: less than 2000 meters.
- Relative Humidity (RH): 80% max
- Temperature 32°F to 104°F (0℃ to 40℃)

Maintaining the product:

When not using the instrument for a long time, please remove the battery and avoid storing in high temperature and high humidity.

Safety symbols:

▣   Meter is protected by double insulation

$C\epsilon$ Comply with European Union's 93/68/EEC

1.1.1 During use

1. Auto-range mode (30-120dB) is unfit for measuring instantaneous and impact sound.

2. To measure sound level in a windy environment, use a windscreen on the microphone to avoid noise from wind.

1.1.2 Maintaining the product

- Do not measure in a high temperature, high humidity locations.

- When not using the instrument for a long time, please remove the battery and avoid storing in high temperature and high humidity.

1.2 Functions & Features

1. Auto-ranging/ manual ranging selectable.
2. Analog bar graph.
3. Frequency weighting (A Type)
4. Range display.
5. Auto-power off
6. Low battery indication
7. Sound OVER or UNDER display.
8. Software cal brating to insure high reliability.

■ Features

1. Designed to meet IEC651 Type 2 and ANSI S1.4 Type 2 Standards
2. Frequency Response: 31.5Hz—8kHz.
3. Accuracy：±3 dB for 30 to 60 dB;
   a. ±2 dB for 60 to 120 dB.
4. Resolution: 0.1 dB.
5. Measurement ranges：30—60dB/ 50—80dB/ 70—100dB/ 90—120dB.
6. Digital display：4 digital LCD Display.

7. Frequency weighting：A Type.

8. Response time：Analog bar 125ms/ Digital 750ms.

9. Microphone Type：Electret Condenser

10. Operating temperature ： 0 ~ +40 .

11. Operating humidity：10 ~ 80% RH.

12. Storage temperature：-10 ~ +60 .

13. Storage humidity ： 10 to 70% RH.

14. Dimensions: 6.14"(L) x 2.36"(W) x 1.18"(H)
   156mm(L) x 60mm(W) x 30mm(H)

14. Weight: 6.35 oz (app.) 180 g (app.)

15. Accessories：

   Windscreen (1)

   Lanyard (1)

   AAA Batteries (3).

   Users manual (1)
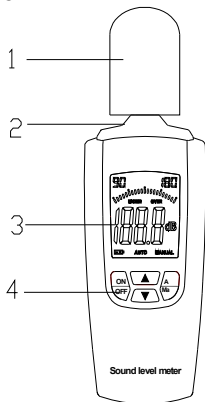
■ Instrument Description

1. Windscreen
2. Sound level sensor
3. LCD display
4. Function key

1 —

2 —

3 —

4 —

● **LCD Display**

Sound level meter

1 —
2 —
4 —
8 —

UNDER   OVER   — 3

dB   — 7

AUTO   MANUAL   — 6

5
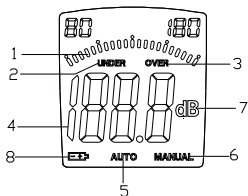
Symbol Designations：

1. Analog bar graph
2. Indicates UNDER range
3. Indicates OVER range
4. Measurement Display Area
5. Indicates Auto Mode
6. Indicates Manual Mode
7. Sound units: dB
8. Low Battery indicator

■ Operating Instructions

1. Press the **On/Off** key to turn the unit on.   The meter
   defaults in auto-range mode.   AUTO displays on
   the LCD.   The Analog bar graph and digital
   display indicate the measured value.
    If the UNDER or OVER symbol appears, it
    means that the measured sound is out of range.
2. To set range manually, press the **Auto/Manu** button.
    MANUAL will be displayed.   Press the **Up** or

Down

　buttons to choose the proper range. The range is displayed at the top of the LCD.

3. Auto-Power off

　The meter factory set for auto-power off after 2 minutes of inactivity. To cancel auto-power off, press the **Down** button along with the **ON/OFF** button while turning unit on.

■ Function Keys:

1. ON/OFF key

　Press the key to turn the power ON or OFF..

2. AUTO/MANU key

　Press **AUTO/MANU** key to shift auto or manual measurement mode.

3. UP/ Down key

　In Manual Range mode, press the **Up** or **Down** button to choose the proper range.

■ Calibration

Please contact SUPCO for cal bration information, if necessary.

■. Maintenance

1. CLEANING INSTRUCTIONS

The meter may be wiped down with a wet sponge or cloth using a mild, water based detergent.

NOTE:

This unit is not designed for complete submersion or washing in water.

2. BATTERY REPLACEMENT

Use the following procedure:

When the battery voltage drops below proper operation range the ⬚ symbol will appear on the LCD display and the battery needs to be replaced.

∞ Press the battery cover towards the arrowhead to open the battery cover.

∞ Replace the battery with three new AAA (1.5V) batteries.

∞ Replace the battery cover.

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