

SOUND LEVEL METER



Users Manual

■. Introduction

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 use it according to the following usage.

Environment conditions:

- Altitude: less than 2000 meters.
- Relatively humidity 80% max
- Operation temperature 0~40°C

Maintenance & save:

Do not clear the meter using alcohol and impregnant. if you do not use it for a long time, please take out the battery and place the instrument in a dry surrounding.

Safety symbols:



Meter is protected by double insulation



Comply with European Union's 93/68/EEC

1.1.1 During use

1. Do not use the meter in a high temperature or wet place.
2. When you do not use for a long time, please take out batteries to avoid damaging the meter by electrolyte.
3. Auto-range measuring (30-120dB) is unfit for measuring instantaneous and impactive noise.
4. To measure sound level in a windy environment, please put windscreen on the microphone to avoid noise from wind.
5. If battery symbol is on the screen, it indicates voltage is low and must replace battery. Suggest you to use alkaline battery.
6. Do not measure when meter is vibrant.
7. After power off, to turn power on again, wait for two seconds.

1.2 Functions & Features

- automatic ranging / manual ranging selection.
- Analog bar indicator.
- Frequency weighting A Type.
- Range display.
- Automatic shutdown / continuous working mode selection.
- Low battery voltage indication.
- Sound OVER or UNDER display.
- Software calibrating to insure high reliability.
- Good circuit designed to save power.

■. Features

- The meter has been designed according to the IEC651 Type 2, ANSI S1.4 Type 2.
- Response frequency: 31.5Hz—8kHz.
- Accuracy: 30~60dB ± 3 dB; 60~120dB ± 2 dB.
- Resolution: 0.1 dB.
- Measurement range: 30—60dB, 50—80dB, 70—100dB, 90—120dB.

- Digital display: 4 digitals.
- Frequency weighting: A Type.
- Response time: Analog bar 125ms Digital 750ms.
- Microphone: Electret Condenser microphone.
- Power supply: DC1.5V(AAA)*3 .
- Operating temperature : 0 ~ +40°C .
- Operating humidity: 10 ~ 80%RH.
- Storage temperature: -10 ~ +60°C .
- Storage humidity : 10 to 70%RH.
- Dimensions: 156(L)×60(W)×32(H) mm.
- Weight : Approx 150 g (including battery).
- Accessories:

DC1.5V (AAA) x 3pcs

String x 1pcs

Plastic box x 1pcs

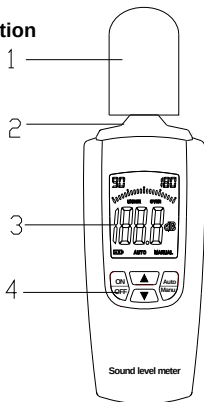
Users manual x 1pcs

Windscreen x 1pcs

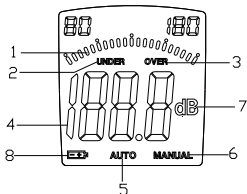
■. Names of parts

● Instrument Familiarization

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



● LCD Display



The meaning of the symbols represented by the following:

1. Analog bar
2. UNDER indication to high range
3. OVER indication to low range
4. Display zone
5. Auto mode
6. Manual mode
7. Sound unit: dB
8. Indication to low voltage of the batteries

■. Operation instruction

1. Press button **On/Off** , the meter starts auto-range measuring after the screen displays all the LCD segments. symbol AUTO displays and the micro-controller selects a proper range to measure sound automatically. The range is displayed on top of the screen. Analog bar and digits indicate the value of Sound to be measured. If symbol UNDER or OVER appears, it means that environmental sound

is less than 30 dB or is higher than 120 dB.

2. To set range manually

If it is necessary to set range manually, press button **Auto/Manu**, symbol MANUAL displays. You can press button **Up** or **Down** to choose the proper range. The range is displayed on top of the screen. When LCD appears UNDER symbol, it indicates that the range is high, you need to press button **Down** to set lower range until no UNDER symbol. When LCD appears OVER symbol, it indicates that the range is low, you need to press button **Up** to set higher range until no OVER symbol. If you want to enter auto-range measurement, press button **Auto/Manu** again.

3. To set power off

When meter is working, pressing button **On/Off** will get shutdown immediately.

4. Automatic shutdown

When meter is working and stop to press button for two minutes, shutdown will occurs automatically.

5. Continuous working mode

When you need to measure sound continuously, should cancel automatic shutdown function. To get that, before meter starts working, press button **Down** and button **ON/OFF** at the same time, automatic shutdown will not occur.

6. Low voltage indication

When battery voltage is too low to work, a battery symbol appears on screen. It reminds you to change battery.

■. Keys instruction

1. ON/OFF key

Press the key to turn the power ON. When meter is working and stop to press button for two minutes, shutdown will occurs automatically.

2. AUTO/MANU key

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

Under the state of auto-range measuring, symbol AUTO displays and the micro- controller selects a proper range to measure sound automatically. The range is displayed on top of the screen.

Under the state of manual-range measuring, symbol MANUAL displays. You can press button **Up** or **Down** to choose the proper range. The range is displayed on top of the screen.

3. UP key

Under the state of manual-range measuring, You can press button **Up** or **Down** to choose the proper range.

When LCD appears OVER symbol, it indicates that the range is low, you need to press button **Up** to set higher range until no OVER symbol.

4. DOWN key

Under the state of manual-range measuring, You

can press button **Up** or **Down** to choose the proper range.

When LCD appears UNDER symbol, it indicates that the range is high, you need to press button **Down** to set lower range until no UNDER symbol.

Press button **Down** and button **ON/OFF** at the same time, automatic shutdown will not occur.

■. Calibrating Sound level Meter

When Sound Level Meter is used for a long time, the accuracy may reduce, you need to check and calibrate it, normally a time for each year. Calibration needs a standard sound source, please contact with us about the method.

■. Maintenance

1. CLEANING INSTRUCTIONS

The meter may be wiped down with a wet sponge or cloth using a mild water based detergent or anti-bacterial soap and rinsed under a gentle stream

of cold water.

NOTE:

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

2. BATTERY REPLACEMENT

Use the following procedure:

When the battery voltage drop below proper operation

range the  symbol will appear on the LCD display and the battery need to be replaced.

- * Press the battery cover and towards arrowhead direction to open the battery cover.
- * Replace the battery with three new 1.5V batteries (AAA).
- * Replace the battery cover.



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