

Sound Level Meter with USB Function User manual

Thank you for purchasing this Sound Level Meter with USB function. We recommend that you read and follow the manual carefully before use.

Features:

- Sound level Range: 30 to 130dB (Auto Ranging)
- Frequency weighting: A/C
- Fast/Slow time weighting selection
- 32000 Reading Internal Memory (Data record function)*
- Max Hold function
- High accuracy
- Bar graph display
- AC/DC function
- White Backlight
- Over / Under alert function*
- Time display
- Auto-off function
- Low Battery Alert
- Tripod Mount (Tripod not included)
- Software, USB Lead, Case & Batteries included
- CE Certified & RoHS Compliant

* Computer connection required

Specifications:

Standard applied: IEC651 type 2, ANSI S1.4 type 2

Calibration sound source: 94dB @ 1kHz

Measurement range: 30~130dBA

Accuracy: ±1.5dB (reference sound pressure standard, 94dB@1KHz)

Frequency response: 31.5~8.5KHz

Resolution: 0.1dB

Frequency weighting: A/C

Analogy bar graph: 2dB/1 Bar graph

Sampling rate: 2 times/second (FAST), 1 time/second (SLOW)

AC signal output: 4Vrms/ full barograph, output impedance is approx 600 ohm

AC signal output: 4Vrms/ full barograph, output impedance is approx 600 ohm

DC signal output: 33mV/dB

Dynamic characteristic: FAST (high speed) / SLOW (low speed)

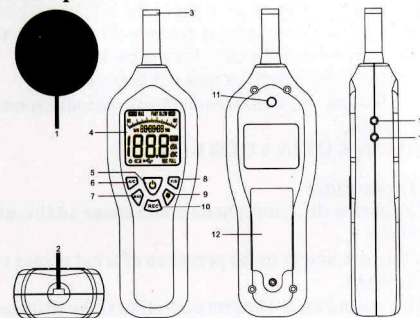
Data storage quantity: 32000 readings

Power supply: 6V (4pcs AA Size 1.5V battery)

Dimension: 245*70*45mm

Weight: approx 240g (battery included)

Product description:



1. Sponge ball (Mandatory for outdoor use to prevent wind noise disturbing the unit readings)

2. USB socket

3. Capacitance microphone

4. LCD display with backlight

5. Power on/off switch

6. A/C frequency weighting selection button

7. MAX reading button

8. FAST/SLOW button

9. Backlight button

10. REC button

11. Tripod mounting thread

12. Battery cover

13. AC output socket (for analog output)

14. DC output socket (for analog output)

LCD display



1. **UNDER:** Alarm symbol, if the reading is under the min set range, this symbol will display.

2. **MAX:** When in this mode only the highest noise reading will display on the main reading display

3. **FAST:** Fast time weighting (refer to respond speed)

4. **SLOW:** Slow time weighting (refer to respond speed)

5. **OVER:** Alarm symbol, if the reading is over the maximum set range, this symbol will display.

6. **Bar Graph:** Sound levels are displayed via this graph and via the digital display reading (see 8)

7. **Time Display** (for Data recording function)

8. **Reading displaying area**

9. **AUTO:** Permanently displayed to indicate the meter is auto ranging

10. **dBA:** Measurement unit

11. **dBC:** Measurement unit

12. **⏻** Auto off symbol

13. **🔌** Low battery warning symbol

14. **USB** communication icon displayed when the meter is connected to a computer via the USB lead (supplied)

15. **REC:** Data recording icon displayed when the meter is recording noise readings


16. **FULL:** Data recording memory full indication. Data would need to be downloaded to PC to empty

Operation: 1. Turning on and off your Meter

a. Press the **⏻** button to turn on your meter.

After 10 minutes without any operation the meter will automatically power off.

Press the **⏻** button again to turn off the meter manually.

b. If the meter is already be connected to a PC and the  symbol is displayed the meter will not turn off until the batteries run out or it is disconnected from the PC, when part (1.a) will again apply

c. If desired you can disable auto power off by holding down the F/S button while the meter is being turned on

2.A/C frequency weighting selection

Press the A/C button to select frequency weighting A/C (your selection will display on the right of the LCD screen as dBA or dBC) When you turn the meter on it will be in A weighting mode.

A weighting enables the meter to respond in the same manner as the human ear, which increases and decreases amplitude over the frequency spectrum. Applications include environmental measurement, law enforcement and workplace design.

C Weighting is suitable for flat response measurements with no increase or decrease of amplitude over the frequency spectrum. Applications include the sound level analysis of machinery and engines

3.MAX value measurement function

a. When measuring sound levels press the MAX button to freeze the maximum reading on the screen. The reading will remain unchanged until a higher reading is detected. Note that the bar graph will continue to record the current reading.

b. Press the MAX button again to exit this mode.

4. FAST/SLOW respond speed function

When you turn the meter on it will be in fast response mode.

Press F/S button to toggle between the Fast (500ms per reading) and Slow (1s per reading)

5.BACKLIGHT function

Press BL button to turn on/off backlight as desired.

6.Recording function

a. Press REC button. The REC icon will appear on screen. The meter will now begin logging the maximum and minimum noise levels.

This will only function after the parameters have been set via PC.

b. The meter will continue to record until you turn the meter off, the meter memory reaches full capacity or the batteries run out.

Each new recording will require the meter to be reconnected to the PC so the parameters can be reset


****The Auto off feature is disabled in Recording mode****

For full instructions on operating the software, please refer to HELP Section once the software is installed

7. Software installation

Run the Setup.EXE file in the folder "Noise Logger (Setup)" in the setup disk.

Battery Replacement:

If the meter does not power on as usual or the low battery icon  appears on the LCD display, please replace the batteries as soon as possible. Use a screwdriver to unscrew the back battery compartment cover and insert 4 x new AA batteries 1.5V. Dispose of the battery in an environmentally safe and sound manner at a recycling point.

DO NOT DISPOSE OF IN YOUR BIN!

Operating Precautions

Wind blowing across the microphone could cause additional extraneous noise.

When using the instrument in the presence of wind please ensure the sponge ball is fitted.

Calibration is recommended before operation if the instrument has not been used for a prolonged period or has been stored in poor conditions.

Do not store or operate the instrument at high temperature or in a high humidity environment.

Keep microphone dry and avoid severe vibration.

When not in use for prolonged periods it is recommended that you remove the battery.

Tripod Mount:

Mounting the meter via a camera tripod (not supplied) will increase the stability & accuracy of the meter by eliminating any sound reflected from the user

Trouble Shooting:

1. **Power on but no display or the display disappears**

a. Check the battery is in place with good contact to the pins and the correct way round.

b. Remove battery for one minute and re-install.

c. Replace the battery.

2. **For all other issues please contact your supplier.**

Warranty:

This meter has a one year warranty for a period of one year from date of purchase.

This warranty covers normal operation and does not cover batteries (including leaks), misuse, abuse, alteration, tampering, neglect, improper maintenance or improper calibration. Nor can the warranty be used as an excuse for a false claim simply because you have changed your mind after the initial 14 day period.

Proof of purchase is required for warranty repairs.