

# Sound Level Meter User Manual



## 1. Safety Information

Read the following safety information carefully before attempting to operate or service the meter, and pls use the meter as specified in this manual

### • Environmental conditions

1. Altitude below 2000 meters
2. Relatively humidity 90%max.
3. Operation Ambient 0~40°C

### • Maintenance & Clearing

1. Repairs or servicing not covered in this manual should only be performed by qualified personnel.
2. Periodically wipe the case with a dry cloth. Do not use abrasives or solvents on this instruments.

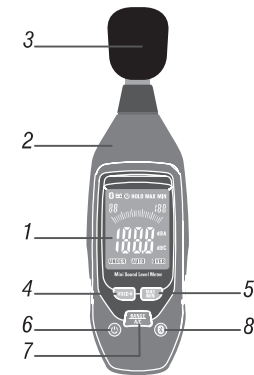
## 2. General Description

This Sound Level Meter is designed to meet the measurement requirements of Noise engineering, sound quality control, Health, Industrial safety offices in various environments. Such as factory, school, office and traffic lines.

- MAX/MIN measurement
- Over range indicate
- Low range indicate
- A & C weighting selection
- Bluetooth communication


## 3. Meter Description


- 1-LCD Display
- 2-Body of Meter
- 3-Microphone
- 4-HOLD/🔦 button
- 5-MAX/MIN button
- 6-Power on/off button
- 7-UNITS button
- 8-Bluetooth button




## 4. Button Discription

### Power on/off, Auto-power off:


**Power on:** Short press buttonto “

**Power off:** Short press button “

**Auto-power off :** Auto-power off signal “

If press the power on/off button for over 1minutes, it will be recognized as faulty operation and the instrument will auto power off.

**RANGE/(A/C)button:** Short press to switch range gear; Long press to switch unit.

**

**HOLD/🔦 button:** Short press to hold the current data; Long press to activate or deactivate backlight.**

**MAX/MIN button:** Press to record Maximum, Minimum

**Note:** MAX/MIN button, range button and A/C button will be deactivated when hold the current readings and the instrument will exit MAX/MIN recording function when switch range gear.

## 5. Display Layout







**MAX:** Maximum hold

**MIN:** Minimum hold

**Two smaller digits at upper left of display:** Minimum range

**Three smaller digits at upper right of display:** Maximum range

**UNDER:** under range

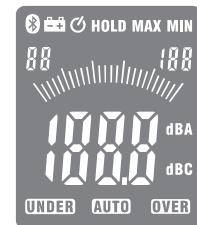
**OVER:** over range

**dBA, dBC:** A-weighting, C-weighting.

**AUTO:** Auto range selection

**HOLD:** Data hold function

**Four larger digits in middle of disply:** Measurement data.



### Measurement Operation

- Turn on the instrument by pressing power on/off button.
- Short press button “RANGE” and select suitable measurement range based on no “UNDER” or “OVER” display on LCD.
- Select “dBA” for general noise sound level and “dBC” for measuring sound level of acoustic material.
- Hold the instrument in hand or fix it on tripod, take measure at a distance of 1~1.5 meters between microphone and source.

### Data Hold


Press hold button to freeze the readings and “HOLD” symbol displays LCD. Press hold button again to return normal measurement.

### MAX/MIN reading

- Press MAX/MIN button for the first time, the instrument will enter Max tracking mode, the tracked max reading will display on the LCD.
- Press MAX/MIN button for the second time, the instrument will enter Min tracking mode, the tracked min reading will display on the LCD.
- Press MAX/MIN button for the third time, the current reading will display on the LCD.

### Bluetooth communication



Long press Bluetooth button to activate Bluetooth function, it communicates after connect with the software. The instrument can transmit measured data and instrument status to software and the software can control the instrument.

The instrument will automatically turn off in order to lengthen the battery working life. When symbol  appears on the LCD, pls replace the old battery with new ones.

- Open the battery compartment with a suitable screwdriver.
- Replace 9V battery.
- Mount the battery compartment again.

**Meterbox Pro Operation** Download Meterbox Pro APP to the smartphone before using the Bluetooth communication function. Meterbox Pro APP is compatible with instruments with Bluetooth: Laser Distance Meters, Multimeters Clamp Meters, Multifunction Insulation Tester, Environment Meter etc. The Meterbox Pro for Environment Meter detailed introduction please look at the help files in GUIDE which is in the Environment Meter interface of Meterbox Pro.

## 6. Specifications

<b>Frequency range:</b>	31.5Hz~8KHz
<b>Accuracy:</b>	3dB(under reference condition of 94dB, 1kHz)
<b>Range:</b>	35~130dB
<b>Measuring range:</b>	LO: 35dB~80dB Med: 50dB~100dB Hi: 80dB~130dB Auto: 35dB~130dB
<b>Frequency weighting:</b>	A and C
<b>Microphone:</b>	1/2 inch electret condenser microphone
<b>Digital display:</b>	4 digits LCD display with a resolution: 0.1dB
<b>Display Update:</b>	2 times/sec
<b>Auto power off:</b>	Meter automatically shuts down after approx. 10 minutes of inactivity.
<b>Power supply:</b>	One 9V battery
<b>Low battery indication:</b>	The low battery signal “  ” flash when battery voltage drops below 7.2V; The backlight and low battery signal “  ” flash twice when battery voltage drops below 6.5V, then auto power off.
<b>Operation temperature and humidity:</b>	0°C~40°C, 10%RH~90%RH
<b>Storage temperature and humidity:</b>	-10°C~+60°C, 10%RH~75%RH
<b>Weight:</b>	184g
<b>Dimensions:</b>	185mmx54mmx36mm

## 7. Notice

- Do not store or operate the instrument at high temperature and high humidity environment.
- When not in use for long time, please take out the battery to avoid battery liquid leakage and caution on the instrument.
- When using the instrument outdoors, please mount the windscreen on microphone in order to not pick up undesirable signals.  
Keep microphone dry and avoid severe vibration.



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