

# SOUND LEVEL METER

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INSTRUCTION MANUAL

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## 1. Introduction

### NOTE

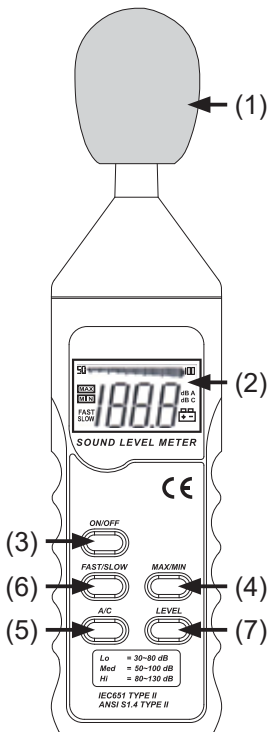
This meter has been designed and tested according to IEC651 TYPE2, ANSI S1.4 TYEP2 for noise measurement.

- A and C frequency weighting selection.
- Fast and Slow detector-indicator characteristics.
- Max and Min hold indicator.
- Over range indicator.
- Bargraph display.
- AC signal output.

## 2. Specifications

- Standard: IEC651 TYPE2, ANSI S1.4 TYPE2.
- Accuracy: 1.5dB (@94dB of 1kHz, @straight direction).
- Frequency response: Refer to page 7.
- 3 Ranges: 30dB ~ 80dB, 50dB ~ 100dB, 80dB ~ 130dB  
**Measurement range is from 30dB to 130dB.**
- Frequency weighting characteristics: A , C.
- Time weighting characteristics: F → Fast, S → Slow
- Averaging time: F → 125ms, S → 1000ms.
- Microphone: ¼ inch ECM.
- Display: 3½ digits with bargraph. Sampling rate: 2 per sec.
- Max. Hold
- Min. Hold
- Over range indicators : ◀ under, ▶ over
- dB output : AC signal, 1V full scale for every range; output impedance is about 100Ω.
- Low battery indicator :
- Battery : 9V 006P, 6F22 or equivalent (alkaline).
- Battery life : about 70 hours.
- Temperature & Humidity:  
0°C ~ 40°C, 90% RH Max. for using.  
-10°C ~ 60°C, 75% RH Max. for storage.
- Dimensions : 240mm(L) x 62mm(W) x 39mm(D).
- Weight : Approx. 224g (battery included).
- Accessories : Instruction Manual  
Battery  
Carrying Bag  
Wind Shield  
Calibration screw driver.

### 3. Instrument Layout



(1) Wind Shied :  
Reduce the noise from  
wind blow

(2) LCD

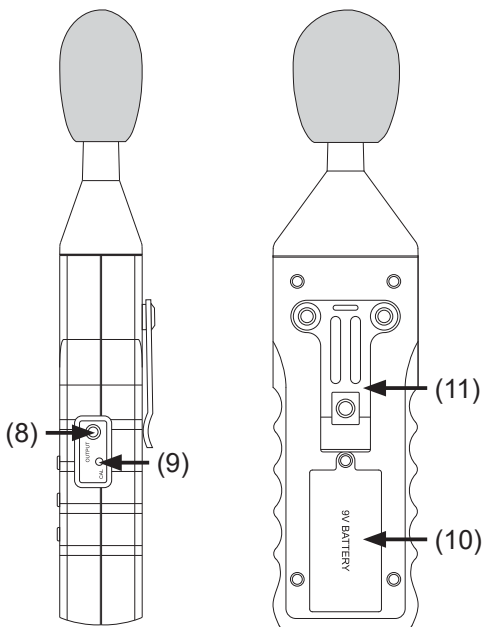
(3) ON / OFF Button :  
Press ON or OFF power.

(4) MAX / MIN Button :  
Press once for MAX to  
read the MAX value, then  
Press again for MIN to  
read the MIN value.  
Press again, cancel the  
function.

(5) A / C :  
Select A or C frequency  
weighting characteristic.

(6) FAST / SLOW :  
Select FAST or SLOW  
function.

(7) Level :  
Select 30 ~ 80dB  
50 ~ 100dB  
80 ~ 130dB  
range



(8) Output : AC output 1 Vrms for full scale (50dB).

(9) Calibration Hole :  
Use screw driver and Sound generator to calibrate  
at 94dB, 1kHz on 50 ~ 100dB range.

(10) Battery cover.

(11) Clip.

## 4. Operation

(1) Press ON / OFF button to turn on power.

(2) Press LEVEL to select the range you want.

(3) Read the value directly from the LCD display.

(4) If under range, the ◀ symbol is blinking; and the ▶ symbol is blinking if over range. Please change the range for proper use.

(5) Select dBA for human hearing or select dBC for mechanical noise.

(6) You can read MAX or MIN Value by pressing MAX / MIN key. But if out of range, function will be cancelled automatically.

## 5. Frequency Weighting

According to IEC 651, the meter should meet the requirement as below :

Nominal Frequency (Hz)	A Weighting	C Weighting	Tolerance (IEC 651 Type 2)
31.5	-39.4dB	-3.0dB	±2dB
50	-30.2dB	-1.3dB	±2dB
80	-22.5dB	-0.5dB	±2dB
125	-16.1dB	-0.2dB	±1.5dB
200	-10.9dB	0	±1.5dB
315	-6.6dB	0	±1.5dB
500	-3.2dB	0	±1.5dB
800	-0.8dB	0	±1.5dB
1250	+0.6dB	0	±1.5dB
2000	+1.2dB	-0.2dB	±2dB
3150	+1.2dB	-0.5dB	±2.5dB
5000	+0.5dB	-1.3dB	±3.5dB
8000	+1.1dB	-3.0dB	±5dB



## **6. Battery Replacement**

When low battery indicator is showed. Use a screwdriver to remove the battery cover.

Replace the old battery with one 9V 006P or equivalent, then reinstate the battery cover.

## **7. Cleaning and Storage**

Periodically, wipe the case with a damp cloth and detergent; do not use abrasives or solvents.

If meter is not to be used for periods longer than 60 days, remove the batteries and store them separately.

*Due to our policy of constant improvement and development, we reserve the right to change specifications without notice.*

### **WARNING**

**To avoid electrical shock or damage to the meter,  
do not get water inside the case.**