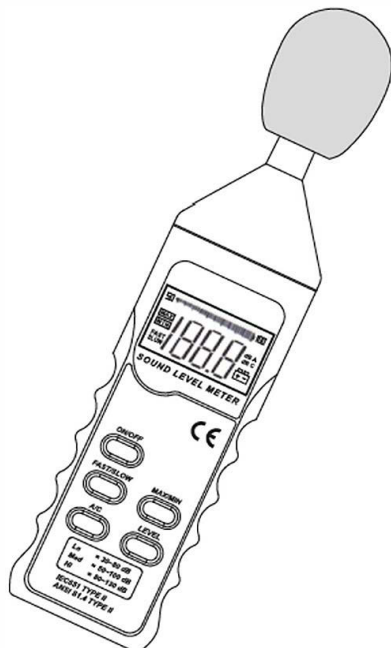


# SOUND LEVEL METER

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## INSTRUCTION MANUAL



Test Equipment Depot - 800.517.8431  
99 Washington Street Melrose, MA 02176  
TestEquipmentDepot.com

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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

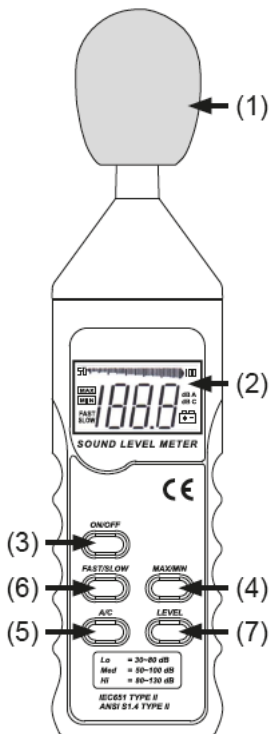
Averaging time : F → 125ms  
S → 1000ms

- Microphone : ¼ inch ECM.
- Display : 3½ digits with bargraph.  
Sampling rate : 2 per second.
- 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).

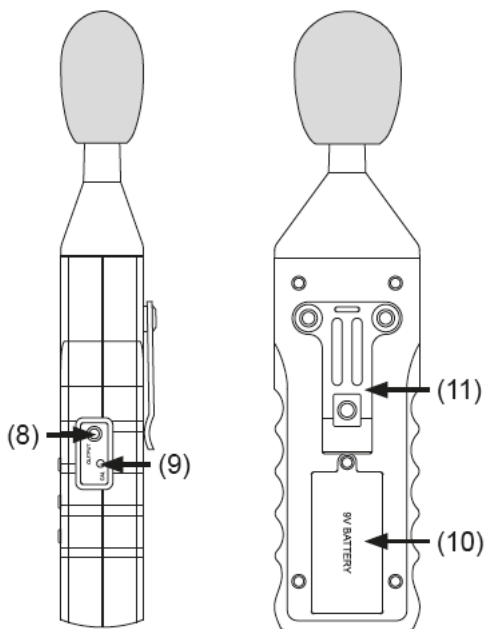
- Battery life : about 70 hours.
- Temperature & Humidity :  
0°C ~ 40°C, 90% RH Max. for using.  
-10°C ~ 60°C, 75% RH Max. for storage.
- Dimensions : 240mm(L) x 62mm(W) x 39mm(D).
- Weight : Approx. 224g (battery included).
- Accessories : Instruction Manual  
Adjusting bar  
Sponge cover  
Carry case  
Battery

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### 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.

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