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Mini Digital Sound Level Meter



Operating Instructions

Mini Digital Sound Level Meter

I. Safety Information

Read the following safety information carefully before attempting to operate or service the meter. Use the meter only as specified in this manual; otherwise, the protection provided by the meter may be impaired.




• Environment Conditions

1. Altitude up to 2000 metres
2. Relative humidity 90% max.
3. Operating temperature 0 ~ 40°C

• Maintenance & Cleaning

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 instrument.

• Safety Symbols

-  Meter is protected throughout by double insulation or reinforced insulation.
-  When servicing, use only specified replacement parts.
-  Comply with EMC.

II. General Description

Thank you for using our sound level meter. To ensure that you can get the most from it, we recommend that you read and follow the manual carefully before use.

This sound level meter has been designed to meet the measurement requirements of safety engineers, health, industrial safety offices and sound quality control in various environments.

- Ranges from 40dB to 130dB at frequencies between 31.5Hz and 8KHz.
- Display with 0.1dB steps on a 4 digit LCD.
- With one equivalent weighted sound pressure level A.

III. Specifications

Frequency range:	31.5Hz ~ 8KHz
Measuring level range:	40 ~ 130dB
Frequency weighting:	A
Microphone:	½ inch electret condenser microphone
Display:	LCD
Digital display:	4 digits
Resolution:	0.1dB
Display up data:	0.5sec
Time weighting:	Fast (125mS)
Accuracy:	±3.5dB @1kHz, 94dB (under reference conditions)
Alarm function:	“OVER” is shown when input is out of range (>130dB)
Auto power off:	Meter automatically shuts down after approx. 15 minutes of inactivity
Power supply:	1x 9V battery, 006P or IEC 6F22 or NEDA 1604
Operating temperature:	0 to 40°C (32 to 104°F)
Operating humidity:	10 to 90%RH
Storage temperature:	-10 to 60°C (14 to 140°F)
Storage humidity:	10 to 75%RH
Dimensions:	210(L) x 55(W) x 32(H)mm
Weight:	135g (including battery)

IV. Name and Functions

1) Windscreen and ½ inch Electret Condenser microphone

If you operate at wind speeds over 10m/sec, please put protective accessories in front of the microphone.

2) MAX/MIN Button

The max. Hold position is used to measure the maximum level of sounds. The maximum measured level is updated continuously. Pressing the button once again will release the hold and allow further measurement.

3) Power ON/OFF Button

Turn the meter on and off.

4) Backlight Sensor

Automatically turns the meter's backlight on or off.

5) Digital LCD Display

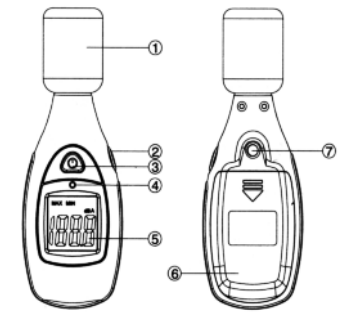
4 digits, Resolution: 0.1dB, Display Up data: 0.5sec

6) Battery Cover

Open the battery cover to replace the 9V battery.

7) Tripod Mount

Fix the instrument comfortably to a standard ¼ inch tripod.



V. Measurement Preparation

1. Battery loading

Remove the battery cover on the back and put in one 9V battery.

2. Battery replacement

When the battery voltage drops below the operating voltage, the “BAT” sign appears. If it appears, battery should be replaced with a fresh one.

VI. Operating Precautions

1. Wind blowing across the microphone will bring additional extraneous noise. Whilst using the instrument in the wind, it is important to mount the windscreen to avoid picking up undesirable signals.
2. Do not store or operate the instrument in high temperature and high humidity environments.
3. Keep microphone dry and avoid severe vibration.
4. Please take the battery out and keep the instrument in a low humidity environment when not in use.

VII. Measurement

1. Open battery cover and install a 9V battery in the battery compartment. Turn on the power.
2. Hold the instrument comfortably in hand or fix to a tripod and point the microphone at the suspected noise source - the sound pressure level will be displayed.
3. When MAX/MIN (maximum/minimum hold) mode is chosen, the instrument captures and holds the maximum or minimum noise level for a long period, using any of the time weightings and ranges.
4. Turn off the instrument and remove the battery when not in use.