

Digital Sound Level Meter Operation Manual

Introduction

This equipment has been designed to meet the measurement requirements of Safety Engineers, Health, Industrial Safety Offices, and Sound Quality Control in various environments, which include factory, office, traffic, family, and audio system.

This equipment has the following features and functions:

1. It is designed according to the IEC651 TYPE2 & ANSI S1.4 TYPE2 standards
2. Modern, compact, portable design
3. Accuracy up to +/- 1.5 dB
4. Measurement Range: 30 dBA – 130 dBA
5. MAX Hold
6. Auto backlight display
7. Auto Power Off

Safety Notice

Operating Environment Conditions

1. Below 2000 meters in eight
2. Humidity: <80%RH
3. Operating temperature: 0~40°C

Maintenance

Use a dry cloth to clean the unit, but never with any solvent.

Calibration Procedures

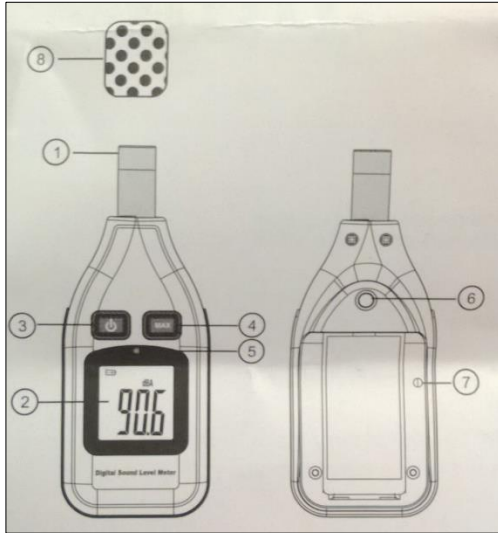
Please use a standard Acoustic Calibrator.

1. Turn on the calibrator and set up the status to 94dB@1KHz.
2. Insert the microphone carefully into the ½” hole of the Calibrator.
3. Turn on the Calibrator and adjust the potentiometer inside the battery compartment of the unit (show in the above diagram) until the LCD screen displays the desired level 94.0dB.

Our products are all well calibrated before shipment. Recommended recalibration cycle: 1 year.

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Functions



1. Electric Condenser Microphone
2. LCD Display
3. Power Button (ON/OFF)
4. Maximum Value Hold Button (MAX)
5. Light Sensor
6. Tripod mounting nut
7. Potentiometer
8. Windscreen (microphone cover)

Operating Instructions

Refer to the diagram above to locate the various functions and parts.

Batteries

The digital Sound Level Meters used for the 3rd Grade Fall Watershed Lesson each use one 9V battery.

To install or change the battery, remove the battery door on the back of the unit and remove or install the 9V battery into the battery compartment.

Replace the battery door cover.

When the low batter mark appears on the LCD screen (small battery image) please replace with a new 9V battery.

Standard Measure Mode

Press the power button (3) to turn on the unit. The LCD will display the full screen for 1 second. Then it will start to measure the current sound level. To turn off the unit, press the power button again.

The reading will change according to the sound level of the current environment. The meter is sensitive to even slight changes in sound level so you may see it constantly fluctuating. You can use the “Max hold” function described in the next section to identify the maximum value measured for a particular reading.

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Max hold

Press the “MAX” button (4) to lock the maximum sound level. The maximum sound level will be locked until the higher value appears to replace it. Press “MAX” again to go back to the standard measure mode.

Auto backlight display

The light sensor (5) will detect the light intensity of the environment automatically. When the light intensity is insufficient, the backlight will be turned on automatically. It will change according to the light intensity.

Auto power off

The unit will shut off automatically in about 11 minutes. To conserve battery, please turn off the meter manually between measurements by pressing the power button.

To temporarily disable the “auto power off” function press and hold the power button continuously until “UOF” is displayed on the LCD screen. The auto power off function will be automatically re-enabled the next time the unit is powered on.

Caution

1. Do not operate the unit in high temperature or high humidity environments.
2. Please take out the battery from the unit if it is not in use for any extended period of time.
3. When using the unit in the presence of wind, mount the windscreen (8; microphone cover) to avoid picking up undesired signals.

Specification

Measuring range	30dBA~130dBA
Accuracy	+/- 1.5 dB (94dB@1KHz)
Frequency range	31.5Hz~8.5KHz
Frequency weighting	A
Digital Display	4 digits
Resolution	0.1 dB
Sample rate	2 times/second

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Microphone	1/2" electret condenser microphone
Max Hold	MAX
Power supply	9V Battery
Power Life	About 30 hours (alkaline battery)
Operating condition	0~40°C, 10~80%RH
Storage condition	-10~60°C, 10~70%RH
Weight	144g (including battery)
Dimension	57x26x149mm