



CEM Instruments DT-95 Sound Level Meter User Manual

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Sound Level Meter User Manual



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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 these instruments.

General Description

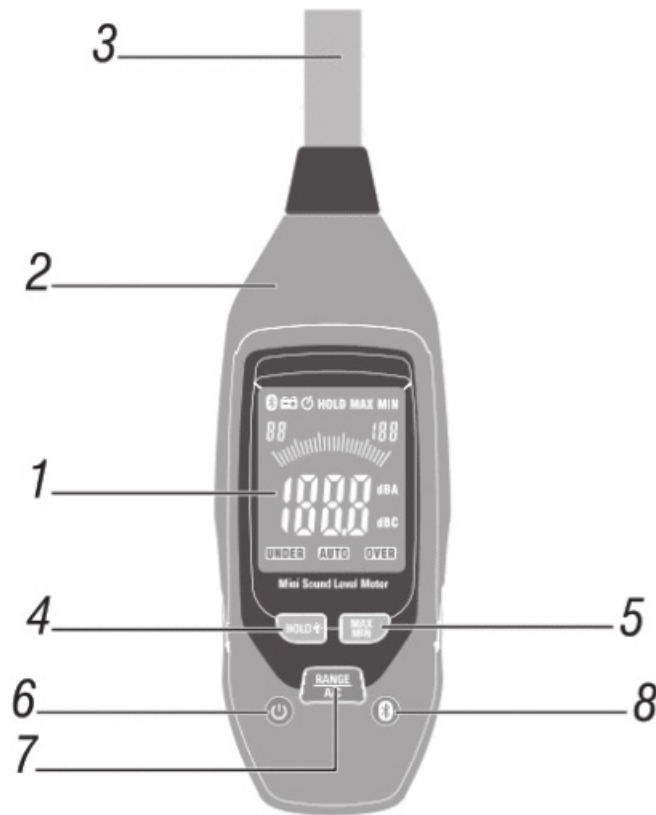
This Sound Level Meter has been designed to meet the measurement requirements of Noise engineering, sound quality control, Health, and Industrial safety offices in various environments. Such as factories, schools, offices, and traffic lines.

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

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



Button Description



Power on/off button:

Meter power on : Short press to turn the power off; Long press to activate or deactivate auto power off.

Meter power Off : Short press to turn the power on and activate auto power-off; Long press to turn the power on and deactivate auto power off. If press the power on/off button for over minutes, then it will be recognized as a faulty operation, and the meter will auto power off.

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



button: Long press to active or deactivateBluetooth.

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

MAX/MIN button: Press to record Maximum, Minimum

Note: MAX/MIN button, range button, and A/C button will be deactivated when holding the current readings and the instrument will exit MAX/MIN record when switching range gear.

Display Layout



: Bluetooth symbol



: Low battery indicate



: Timing power-off symbol

MAX: Maximum hold

MIN: Minimum hold

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

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

UNDER: under a range

OVER: over a range

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

AUTO: Auto range selection **HOLD:** Data hold function

Four larger digits in the middle of the display: Measurement data.

Measurement Operation

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

Data Hold

Press the hold button to freeze the readings and the “HOLD” symbol displayed on the LCD. Press the hold button again to return to 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 the Bluetooth button to activate the Bluetooth function, it communicates after connecting 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  CI appears on the LCD, pls replace the old battery with new ones.

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

Specifications

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

NOTICE

- Do not store or operate the instrument at high temperature and high humidity environment

- When not in use for a long time, please take out the battery to avoid battery liquid leakage and caution the instrument
 - When using the instrument outdoors, pls mount the windscreen on the microphone in order to not pick up undesirable signals.
- Keep the microphone dry and avoid severe vibration.



Documents / Resources

	<p>CEM Instruments DT-95 Sound Level Meter [pdf] User Manual DT-95, Sound Level Meter, DT-95 Sound Level Meter</p>
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