

USER MANUAL

SOUND LEVEL METER

PCE-TSM 5

ENGLISH



User manuals in various languages (français, italiano, español, português, nederlands, türk, polski) can be found via our product search on:
www.pce-instruments.com



SAFETY

Read the following safety information carefully before attempting to operate the meter.

▲ Environment conditions

1. $RH \leq 90\%$ (Non-Condensation)
2. Operating Temperature: $-20 \dots 60^{\circ}\text{C}$ / $-4 \dots 140^{\circ}\text{F}$

▲ Maintenance

1. Repairs or servicing should only be performed by qualified personnel.
2. Wipe the unit with a dry soft cloth. Do not use abrasives or solvents on this instrument



Comply with EMC

APPLICATIONS

This instrument adopts the capacitive microphone as the sensor, and is equipped with high-configuration MCU calculation, with high measurement accuracy and quick response. Suitable for noise engineering, quality control, health prevention and control and various environmental sound measurement, such as construction engineering, factory, school, hospital, library, office, home

FEATURES

- » Large HD color LCD display
- » Wide frequency response range and high accuracy
- » Light and voice alarm functions
- » Alarm value can be set
- » Preset six countries warning language optional
- » 155 Self defined recording broadcast duration 155
- » Screen locking function
- » Remote control and remote operation
- » Audio output function

SPECIFICATIONS

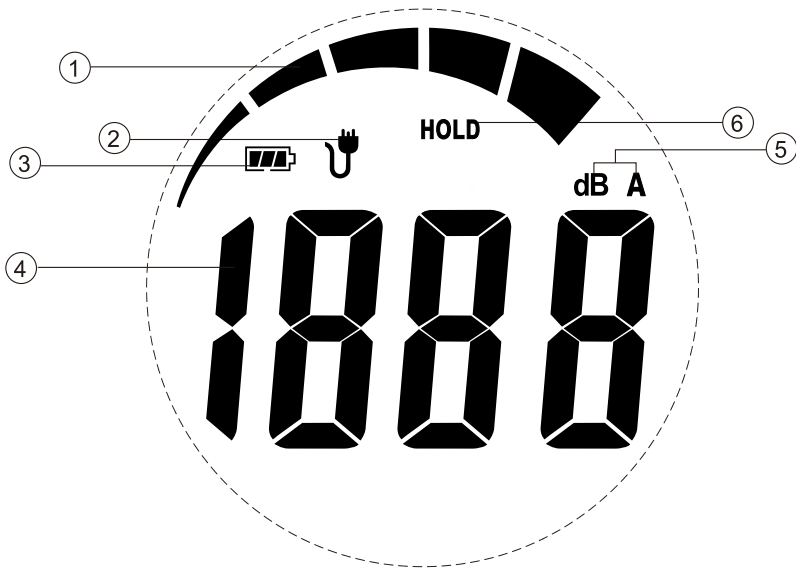
Measuring range	35dB ... 135dB
Dynamic range	50dB
Frequency response	31.5Hz ... 8KHz
Accuracy	±2.0dB
Frequency weighting	A weighted network
Microphone	1/2 inch electret condenser microphone
Value update	500 ms
six Languages	English, Spanish, French, German, Japanese, Chinese
Recording function	15 s
Over range prompt	> 135DB, „Hi“ symbol is displayed; < 35 DB, „LO“ symbol is displayed
High alarm value setting	√
Audio output function	√
Volume adjustment	√
Remote control	√
Battery life	60 hours
Power	Adapter; DC 9V/1A, outer diameter 5.5mm, inner diameter 2.0mm, central positive pole
	AA LR6 1.5V × 6
Operating temperature and humidity	-20 ... 60°C/-4 ... 140°F, 10 ... 90%RH
Storage temperature and humidity	-20 ... 60°C /-4 ... 140°F, 10% ... 75%RH
Size	197 x 176 x 49 mm
Weight	623 g

METER DESCRIPTION



1. Display screen
2. Recording hole
3. Function keys
4. Loudspeaker
5. Infrared receiving hole
6. Function keys
7. Noise detection sensor
8. Noise correction fine adjustment hole
9. Audio output hole
10. Adapter jack
11. Hanging hole
12. Battery compartment

DISPLAY DESCRIPTION



1. Volume identification symbol
2. Adapter access prompt symbol
3. Low voltage prompt symbol
4. Noise value display area
5. Noise unit symbol
6. Screen lock symbol

OPERATION DESCRIPTION

1) On/off function;

Press the „“ button to start the meter, and press the „“ button for 3 seconds to shut down the machine.

2) Alarm function

- » Yellow light alarm, in the measurement mode, when the measurement value is greater than the reported value, the yellow light flashes continuously.
- » Red light alarm. in measurement mode, when the measurement value is greater than the alarm value set by the red light, the red light is continuously flashing and the voice is reported (please be quiet).

3) Screen lock function;

in the measurement state, press the „“ key, the „HOLD“ symbol appears at the top of the screen to indicate that the instrument locks the current screen display, and again, the „“ key to cancel the function.

4) Recording function; in measurement mode, press the „“ button, and hear the „drop“, indicating that the recording begins, release „“ the key, and hear the two sounds of „drop“ and „drop“, indicating the end of the recording. The instrument will automatically broadcast a recording content.

5) Volume adjustment function; in measurement mode, press „“ to increase the volume and „“ to reduce the volume.

6) Alarm value adjustment function; in the measurement mode, press the „“ button, the instrument can enter the „Yellow Light Alarm Value Adjustment“, „Red Light Alarm Value Adjustment“,

„Green Light Self Test“, „Yellow Light Self Test“, „Red Light“ mode, and press the „“ button again to return to the measurement mode. In the alarm value adjustment mode, press „“ key to adjust the large value and press „“ key to adjust the small value.

7) Broadcast voice selection; in measurement mode, press „“ to select the required broadcast language, then select in English, Spanish, French, German, Japanese, Chinese, homemade recording content.

Note: After pressing the „“ key, a voice will be broadcast. After the voice is played, press

the „“ key within 3 seconds to jump to the next voice play. If more than 3 seconds, play the selected voice.

8) Correction method;

Open the power switch of the standard sound source (94 dB @ 1 KHZ), close the standard source to the induction hole of the noise detection sensor, and rotate the potentiometer in the adjustment hole on the right side of the instrument to display the LCD as 94.0dB.

Notes

The instrument has been calibrated before leaving the factory. Without any professional equipment and personnel, please do not easily modify the calibration parameters

[Note] The instrument has been corrected before leaving the factory, and the recommended correction period is one year.

- 1) Repairs or servicing should only be performed by qualified personnel.
- 2) Wipe the unit with a dry soft cloth. Do not use abrasives or solvents on this instrument
- 3) Remove the battery when the meter is to be stored for long periods of time to avoid battery leakage.
- 4) When the battery runs out, the LCD displays the " „
- 5) Use adapters to power as much as possible
- 6) Do not use it in places with high temperature and high humidity
- 7) Do not tap the microphone head and remain dry.

DISPOSAL

For the disposal of batteries in the EU, the (EU) 2023/1542 directive of the European Parliament applies. Due to the contained pollutants, batteries must not be disposed of as household waste. They must be given to collection points designed for that purpose. In order to comply with the EU directive 2012/19/EU we take our devices back. We either re-use them or give them to a recycling company which disposes of the devices in line with law. For countries outside the EU, batteries and devices should be disposed of in accordance with your local waste regulations. If you have any questions, please contact PCE Instruments.

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