



PCE-MSL1 Mini Sound Level Meter User Manual

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PCE-MSL1 Mini Sound Level Meter User Manual



Specifications:

- Applied Standard: Measuring level range
- Dynamic range: Frequency range
- Accuracy: Frequency weighting
- Time weighting: Microphone
- High/low reading indication
- Temperature range: Temperature accuracy
- Resolution: Data update
- Battery life: Enable/Disable Auto power off
- Battery: Operating conditions
- Storage conditions: Dimensions
- Weight

Product Information

The PCE-MSL 1 is a Sound Level Meter designed for safety engineers, health professionals, industrial safety offices, and sound quality control in various environments like factories, schools, and construction sites. It features high accuracy, fast response, and a color LCD display with backlight. The meter uses a condenser microphone as the sensor and a high configuration MCU for calculations.

Safety

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. RH≤90RH Non-condensation
 2. Operating temperature:-20 60~ /-4 140~
- Maintenance
 1. Repairs or servicing not covered in this manual 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.

- **Safety Symbol**

-  Comply with EMC



Application

This unit adopts condenser microphone as the sensor, high configuration MCU calculation, high accuracy, fast response. This Sound Level Meter is designed to meet the measurement requirements of safety Engineers, Health, Industrial safety offices and sound quality control in various environments like factory, school, construction, etc.

Features

- High accuracy
- Fast response
- Color LCD display with backlight
- Temperature measurement
- MAX/MIN data hold
- Wide frequency range
- Fast/slow time weighting
- Over range indication
- Enable/Disable auto power off

Basic Operation

1. Open the battery cover and install 3*1.5v AAA batteries in the battery compartment.
2. Power on: press“  ”to turn on the meter, the meter conducts self-inspection, after LCD displays, it measures temperature and sound level automatically.
3. After testing, Press“  ”to turn off the meter

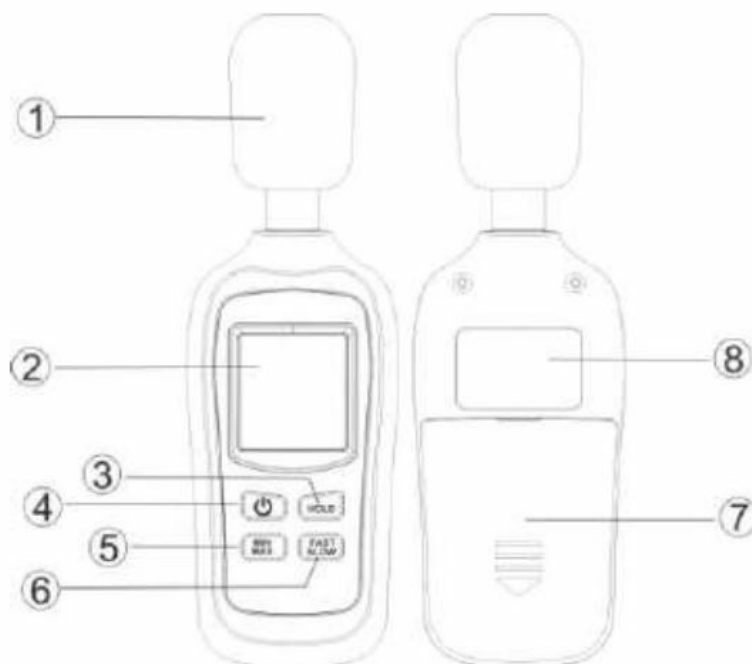
Note: Remove the battery when the meter is to be stored for long periods of time to avoid battery leakage

Meter Description

1. Windscreen microphone cover
2. LCD Display
3. Hold button
4. Power on/off button
5. MAX/MIN button
6. Fast/Slow selection key

7. Battery compartment

8. Nameplate



LCD Display Description


















1. Data hold Icon
2. Auto power off Icon
3. Temperature readings
4. Sound level readings
5. Fast/Slow Icon
6. Hi/Lo Icon
7. Frequency weighting Icon
8. Temperature unit Icon
9. Low battery Icon
10. MAX/MIN Icon



Operation Instructions

1. **Power on/off:** Press the power on/off button to turn on/off the meter.
2. **Data Hold:** In measuring mode, press the HOLD button to freeze the data. Press again to release the held reading.

3. **MAX/MIN:** In measuring mode, press the MAX/MIN button to display the maximum sound level on the LCD.
Long press the button to exit MAX/MIN measurement mode and return to normal measuring mode.
4. **Time Weighting:** With the meter on, press the Fast/Slow selection key to choose between FAST (125ms) or Slow (1s) time weighting measurement.

-  Power on/off: press " "to turn on/off the meter.
-  Data Hold: In measuring mode, press " ", "HOLD" Icon will appear on the LCD, which indicates the data is frozen, to release the held reading, press " " again.
-  MAX/MIN: In measuring mode, press " ", "MAX" will appear on the LCD, and the captured maximum sound level will be displayed on the LCD, Long press " ", the meter exits MAX/MIN measurement mode and back to normal measuring mode.
-  key: with the meter on, press " " to select FAST(125s) or Slow(1s) time weighting measurement.
 - FAST: Fast sampling measurement, 1 time per 125ms.
 - SLOW: Slow sampling measurement, 1 time per second
- Use of compound key
 - With the meter off, press " "first and hold, then press " "to turn on the meter, it can change the temperature unit(°C/°F). °C is preset.
 - With the meter off, press " "first and hold, then press " " to turn on the meter, " " The Icon on the LCD display disappears, which indicates the power off function is disabled, you need to turn off the meter by pressing " "by manual.
 - **Note:** When " " icon is displayed on the screen, it indicates that the meter will automatically turn off after approx. 15 minutes of inactivity.

Notes

1. This meter has already been calibrated before delivery. Do not revise the calibration parameters without professional personnel and device.
Note All products are well calibrated before delivery.
 1. **Recommended recalibration cycle:** 1 year.
2. Repairs or servicing not covered in this manual should only be performed by qualified personnel.
3. Wipe the unit with a dry soft cloth periodically. Do not use abrasives or solvents on this instrument.
4. Remove the battery when the meter is to be stored for long periods of time to avoid battery leakage.
5. when the battery is low LCD display "A new battery is needed."
6. Do not store or operate the meter in high temperature or humidity.
7. Wind blowing across the microphone increases the noise measurement. Use the supplied windscreen to cover the microphone when appliance.
8. Keep the microphone dry and avoid severe vibration.

Accessories

1. User's manual
2. 3*1.5V AAA Battery
3. Windscreen

Contact

If you have Contact questions, suggestions or technical problems, please do not hesitate to contact us. You will find the relevant contact information at the end of this user manual. If you have any questions about our range of products or measuring instruments please contact PCE Instruments.

- PCE Instruments UK: PCE Americas
- By post:
 - PCE Instruments UK Ltd.: PCE Americas Inc.
 - Units 12/13 Southpoint Business Park: 711 Commerce Way
 - Ensign Way, Southampton: Suite 8
 - Hampshire:
 - Jupiter
 - 33458 FL
 - United Kingdom, SO31 4RF: USA

By phone:

02380 987 035

By phone:

561 320 9162

Disposal

For the disposal of batteries in the EU, the 2006/66/EC 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 that disposes of the devices in line with the 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.



FAQ

Q: How do I clean the meter?

A: Wipe the unit with a dry soft cloth. Do not use abrasives or solvents on this instrument.

Q: Can I perform repairs or servicing on the meter?


A: Repairs or servicing not covered in this manual should only be performed by qualified personnel.

Q: What should I do if the meter is not functioning properly?

A: Refer to the troubleshooting section in the user manual for possible solutions. If the issue persists, contact customer support.



Documents / Resources

	<p>PCE PCE-MSL1 Mini Sound Level Meter [pdf] User Manual</p> <p>PCE-MSL1 Mini Sound Level Meter, PCE-MSL1, Mini Sound Level Meter, Sound Level Meter, Level Meter, Meter</p>
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References

- [User Manual](#)