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Decibel Meter PCE-MSL 1

User's Manual



1. 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.

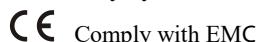
Environment conditions :

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 :



2. 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.

3. 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

4. Basic Operation

4.1. Open battery cover and install 3*1.5v AAA batteries in the battery compartment.

4.2. Power on ; press " " to turn on the meter, the meter conducts self-inspection, after LCD displays, it measures temperature and sound level automatically.

4.3. After testing, Press " " to turn off the meter

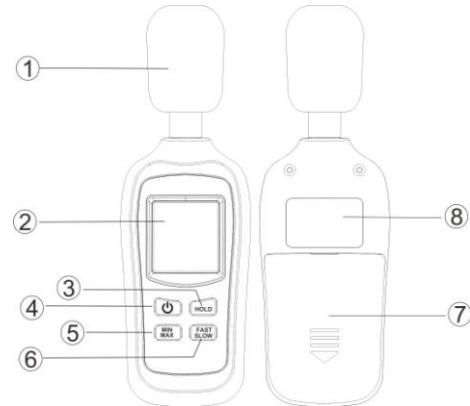
Note: Remove the battery when the meter is to be stored for long periods of time to avoid battery leakage

5. Specification

| | |
|-------------------------------|--|
| Applied Standard | IEC61672-1 CLASS2 |
| Measuring level range | 35dB~135dB |
| Dynamic range | 50dB |
| Frequency range | 31.5Hz~8KHz |
| Accuracy | ±2.0dB |
| Frequency weighting | A frequency weighting |
| Time weighting | FAST:125ms/ SLOW: 1s |
| Microphone | 1/2 inch electrets condenser microphone |
| High/low reading indication | 100dB, LCD displays "Hi" 100dB, LCD displays "LO" |
| Temperature range | -20 ~70 /-4 ~158 |
| Temperature accuracy | ±1.5 /2.7 |
| Resolution | 0.1 |
| Data update | 300ms |
| Battery life | at least 60 hours |
| Enable/Disable Auto power off | The meter shuts off automatically after 15 minutes inactivity under auto power off mode, disable auto power off is available |
| Battery | 3*1.5V "AAA" batteries |
| Operating conditions | -20 ~60 /-4 ~140 ,10RH%~90 RH% |
| Storage conditions | -20 ~60 /-4 ~140 ,10 RH%~75 RH% |
| Dimensions | 144*56*30.5mm |
| Weight | 73g |

6. Meter description

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



7. 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



8. Operation instruction

- 8.1 **Power on/off:** press “- 2. 3*1.5V AAA Battery
- 3. Windscreens

11. 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.

12. Contact

If you have any questions about our range of products or measuring instruments please contact PCE Instruments.

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13. 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 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.

