

Model: MS-M80A | **Brand:** Mengshen

Overview

The Mengshen MS-M80A is a handheld digital sound level meter (SPL meter) designed to measure environmental noise levels from 30 dB to 130 dB. It features a large LCD with backlight, a sensitive electret condenser microphone, and a 0.5-second response time. The meter is powered by one 9V battery (included) and is suitable for use in factories, offices, theaters, audio systems, and home environments.



Features

Measurement Capabilities

- **Measuring range:** 30 dB to 130 dBA
- **Accuracy:** ± 1.5 dB
- **Resolution:** 0.1 dB

- **Frequency weighting:** A-weighting
- **Frequency range:** 31.5 Hz – 8 kHz
- **Microphone:** 1/2-inch electret condenser microphone

Display and Controls

- **Large LCD display** with backlight for easy reading in low light
- **Data Hold function:** freezes the current reading on the screen
- **MAX/MIN recording:** displays the highest and lowest sound levels measured
- **Alarm function:** alerts when the sound level reaches 130 dB

Power and Auto-Off

- Powered by one 9V battery (included)
- Approximately 50 hours of continuous use
- **Auto power off:** after 15 minutes of inactivity to conserve battery



Specifications

Parameter	Value
Measurement Range	30 dB – 130 dBA
Accuracy	±1.5 dB
Resolution	0.1 dB
Frequency Weighting	A
Frequency Range	31.5 Hz – 8 kHz
Microphone	1/2-inch electret condenser
Response Time	0.5 second
Display	LCD, 4 digits, with backlight
Auto Power Off	15 minutes
Power Supply	1 × 9V battery (included)
Battery Life	Approx. 50 hours
Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Operating Humidity	10% – 90% R.H.
Storage Temperature	-10 °C to 60 °C (14 °F to 140 °F)
Storage Humidity	10% – 70% R.H.
Dimensions (L×W×H)	170 × 58 × 35 mm (6.7 × 2.3 × 1.4 in)
Weight	Approx. 107 g (3.8 oz)
Material	ABS (Acrylonitrile Butadiene Styrene)

Use Guide

1. Power Supply

1. Open the battery compartment on the back of the meter.
2. Connect a 9V battery to the snap connector and place it inside the compartment.

3. Close the compartment securely.

2. Turning On / Off

- Press the **Power** button to turn the meter on. The LCD will light up.
- Press and hold the **Power** button again to turn the meter off.
- The meter will automatically power off after 15 minutes of inactivity to save battery.

3. Taking a Measurement

1. Point the microphone (top of the meter) toward the sound source.
2. Hold the meter at arm's length to avoid body reflections affecting the reading.
3. Read the sound level in dBA on the LCD display.
4. For outdoor use, attach the supplied wind-resistant ball over the microphone to reduce wind noise.



4. Data Hold

- Press the **Hold** button to freeze the current reading on the display.
- Press **Hold** again to release the hold and resume live measurement.

5. MAX / MIN Recording

- Press the **MAX/MIN** button to cycle through the maximum (MAX) and minimum (MIN) sound levels recorded since the meter was turned on.
- The display will show "MAX" or "MIN" accordingly.
- Press and hold the **MAX/MIN** button to clear the stored values and restart recording.

6. Backlight

- Press the **Backlight** button to turn the LCD backlight on or off. The backlight improves readability in dim environments.

7. Alarm Function

- When the measured sound level reaches 130 dB, the meter will trigger an audible alarm to warn of potentially hazardous noise.

8. Measurement Tips

- Take several readings at the same location to obtain a stable average value.

- Avoid blocking the microphone opening with your hand or other objects.
- When measuring a specific source, try to minimize background noise from other directions.

Note: If the meter will not be used for an extended period, remove the 9V battery to prevent leakage. Do not use the meter in high-temperature or high-humidity environments.

Product Video

The following video demonstrates the product in use and provides setup guidance.

Your browser does not support the video tag.

Package Contents

- 1 × Digital Sound Level Meter (MS-M80A)
- 1 × 9V battery
- 1 × User Manual (PDF available online)

Safety and Maintenance

- Do not disassemble the meter or attempt to repair it yourself.
- Keep the meter away from water, dust, and extreme temperatures.
- Clean the exterior with a soft, dry cloth. Do not use solvents or abrasive cleaners.
- Remove the battery if storing the meter for more than one month.

Warranty

This product is covered by a **1-year warranty** from the date of purchase. For warranty claims or support, please contact the seller (Mengshen) through the Amazon store or refer to the warranty description provided with the product.

Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.