

SOUND LEVEL METER UNI-T UT-353

The **UNI-T UT-353** is a sound level meter (SLM) designed to measure sound pressure levels in decibels (dB). It is commonly used in environmental noise monitoring, industrial safety, and acoustic research. Below are some key features and specifications of the UT-353:

Key Features:

1. **Measurement Range:**
 - Typically measures sound levels from **30 dB to 130 dB**.
 - Suitable for a wide range of applications, from quiet environments to noisy industrial settings.
2. **Frequency Weighting:**
 - **A-weighting (dBA):** Simulates the human ear's response to sound, commonly used for environmental and occupational noise measurements.
 - **C-weighting (dBC):** Measures low-frequency sounds more accurately, often used for industrial noise.
3. **Time Weighting:**
 - **Fast (Fast Response):** For measuring rapidly changing sound levels.
 - **Slow (Slow Response):** For measuring average sound levels over time.
4. **Accuracy:**
 - High accuracy, typically within **±1.5 dB** (depending on calibration and conditions).
5. **Display:**
 - **LCD Screen:** Shows real-time sound level measurements.
 - **Bar Graph:** Provides a visual representation of the sound level.
6. **Data Hold Function:**



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- Freezes the current reading on the display for easy recording.
 - 7. **Max/Min Function:**
 - Records the maximum and minimum sound levels during a measurement session.
 - 8. **Auto Power Off:**
 - Helps conserve battery life by automatically turning off after a period of inactivity.
 - 9. **Portable and Lightweight:**
 - Compact design for easy portability and field use.
 - 10. **Calibration:**
 - Some models may support external calibration for maintaining accuracy.
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Applications:

- Environmental noise monitoring (e.g., traffic, construction, neighborhood noise).
 - Workplace safety and occupational noise exposure assessments.
 - Acoustic research and sound quality testing.
 - Compliance with noise regulations and standards.
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Specifications (Typical):

- **Measurement Range:** 30 dB to 130 dB.
- **Frequency Range:** 31.5 Hz to 8 kHz.
- **Accuracy:** ± 1.5 dB.
- **Weighting Networks:** A and C.
- **Time Weighting:** Fast and Slow.

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- **Display:** LCD with bar graph.
 - **Power Supply:** Typically 1 or 2 AAA batteries.
 - **Dimensions:** Compact and handheld.
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How to Use:

1. Turn on the device and select the appropriate weighting (A or C) and response time (Fast or Slow).
 2. Hold the meter at the desired location, ensuring the microphone is pointed toward the sound source.
 3. Read the sound level measurement on the LCD display.
 4. Use the Max/Min or Data Hold functions as needed.
 5. Turn off the device or let it auto-power off to save battery.
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Maintenance Tips:

- Regularly calibrate the device to ensure accurate measurements.
- Protect the microphone from dust and moisture.
- Replace batteries as needed to maintain performance.