Tadeto TE017

Tadeto Digital Sound Level Meter TE017 User Manual

Model: TE017

1. Introduction

Thank you for choosing the Tadeto Digital Sound Level Meter, Model TE017. This device is designed to measure sound levels accurately and reliably. Please read this manual thoroughly before operation to ensure proper use and to maintain the device's performance.
The Tadeto TE017 is a portable SPL meter capable of measuring sound levels from 30dB to 130dB. It features a clear backlight LCD display, MAX/MIN noise measurement, data hold, and selectable A/C weighting modes. It is suitable for various applications including environmental noise monitoring, industrial noise assessment, and general sound level checks.

2. Safety Information

- Do not attempt to disassemble or modify the device.
- Avoid exposing the device to extreme temperatures, humidity, or direct sunlight.
- Keep the device away from strong electromagnetic fields.
- Remove batteries if the device will not be used for an extended period to prevent leakage.
- Clean the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Ensure the microphone is protected from dust and moisture. Use the foam wind shield provided.

3. Product Overview

3.1 Package Contents

- 1 x Tadeto Digital Sound Level Meter (TE017)
- 1 x Instruction Manual
- 1 x Protective Bag
- 3 x 1.5V AAA Batteries

Image: Contents of the Tadeto Digital Sound Level Meter TE017 package, including the meter, protective bag, batteries, and user manual.

3.2 Device Components

Image: Front and back view of the Tadeto TE017 Digital Sound Level Meter with key components labeled, including the microphone, LCD display, control buttons, calibration hole, and battery cover.

1. **Microphone and Sponge Ball:** Captures sound waves. The sponge ball reduces wind noise.
2. **LCD Display:** Shows measurement readings, mode indicators, and battery status.
3. **FAST/SLOW Mode Button (F/S):** Toggles between fast (0.125s) and slow (1s) response times.
4. **ON/OFF Button:** Powers the device on or off.
5. **A/C Weighted Button (A/C):** Selects A-weighting or C-weighting frequency response.
6. **Battery Cover:** Access to the battery compartment.
7. **Backlight Button:** Activates or deactivates the LCD backlight.
8. **LEVEL Switch Buttons (Up/Down Arrows):** Adjusts the measurement range.
9. **MAX/MIN Button:** Displays maximum or minimum measured values.
10. **HOLD Button:** Freezes the current reading on the display.
11. **Calibration Hole:** Used for manual calibration of the device.

4. Setup

4.1 Installing Batteries

The Tadeto TE017 requires three 1.5V AAA batteries. To install:

1. Locate the battery cover on the back of the device.
2. Slide the battery cover open.
3. Insert three AAA batteries, ensuring correct polarity (+/-).
4. Close the battery cover securely.

When the battery is low, a low voltage icon will appear on the LCD display, indicating that the batteries need to be replaced.

Image: The Tadeto TE017 Digital Sound Level Meter shown alongside three AAA batteries, illustrating the power source.

5. Operating Instructions

5.1 Power On/Off

- Press the **ON/OFF** button to turn the device on.
- Press and hold the **ON/OFF** button for a few seconds to turn the device off.

5.2 Selecting Measurement Range (LEVEL)

The device offers 5 adjustable measurement ranges for optimal accuracy. Use the**LEVEL** up/down arrow buttons to cycle through the ranges:

- 30-80dB
- 30-130dB
- 50-100dB
- 60-110dB
- 80-130dB

Select the range that best suits the expected noise level to ensure the most accurate readings.

Image: A visual representation of the five selectable measurement ranges (30-80dB, 30-130dB, 50-100dB, 60-110dB, 80-130dB) available on the Tadeto TE017, with an example of the large LCD display.

5.3 A/C Weighting Selection

Press the **A/C** button to switch between A-weighting and C-weighting modes.

- **A-Weighting:** Simulates the frequency response of the human ear at low sound levels. Ideal for environmental noise detection.
- **C-Weighting:** Provides a flatter frequency response, suitable for measuring high-intensity noise, such as from machinery or motors.

5.4 Fast/Slow Response Rate

Press the **F/S** button to select the desired response rate.

- **FAST (0.125s):** For general environmental measurements where noise levels change rapidly. Provides a more sensitive reading.
- **SLOW (1s):** For environments with relatively stable noise levels or to average out fluctuating sounds. Provides a

more stable reading.

Image: The Tadeto TE017 Digital Sound Level Meter displaying A/C weighting and Fast/Slow response rate options, explaining their applications.

5.5 MAX/MIN Measurement

Press the **MAX/MIN** button to view the maximum or minimum sound level recorded during the current measurement session.

- Press once to display the maximum value (MAX).
- Press again to display the minimum value (MIN).
- Press a third time to return to real-time measurement.

5.6 Data Hold

Press the **HOLD** button to freeze the current reading on the LCD display. Press it again to release the hold and resume real-time measurement.

5.7 Backlight

Press the **Backlight** button to turn the LCD backlight on or off, improving visibility in low-light conditions.

5.8 Audible and Visual Alarms

The device features audible and visual alarms. If the measured sound level exceeds a certain threshold (typically the upper limit of the selected range), the device may emit an audible alert and/or flash the display to indicate an over-range condition.

6. Maintenance

6.1 Cleaning

Wipe the device with a soft, dry cloth. Do not use liquid cleaners or solvents, as they may damage the casing or internal components. Keep the microphone clean and free from obstructions.

6.2 Battery Replacement

When the low battery indicator appears on the display, replace all three AAA batteries promptly to ensure accurate measurements and proper device function.

6.3 Storage

Store the device in its protective bag in a cool, dry place, away from direct sunlight and extreme temperatures. Remove batteries if storing for an extended period.

7. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Batteries are dead or incorrectly installed. Device malfunction.	Check battery polarity and replace with new batteries. Contact customer support.
Inaccurate readings.	Incorrect measurement range selected. Microphone obstructed or damaged. Device needs calibration. Environmental interference (e.g., wind).	Adjust the LEVEL to an appropriate range. Ensure microphone is clear and use sponge ball. Perform manual calibration (refer to advanced settings or contact support). Move to a less windy environment.
Display is dim or blank.	Backlight is off. Low battery.	Press the Backlight button. Replace batteries.
Audible alarm sounds frequently.	Sound level exceeds the selected range.	Adjust the LEVEL to a higher measurement range.

8. Specifications

Model	TE017

Measurement Range	30dB to 130dB
Accuracy	± 1.5 dB
Frequency Weighting	A and C
Time Weighting	FAST (0.125s) / SLOW (1s)
Display	Backlight LCD Digital Display
Power Supply	3 x 1.5V AAA Batteries
Operating Temperature	0°C to 40°C (32°F to 104°F)
Operating Humidity	10% to 80% RH (non-condensing)
Dimensions	Approximately 9.8 x 3.98 x 2.32 inches
Weight	Approximately 11.64 ounces (with batteries)

9. Warranty and Support

Tadeto products are designed for reliability and performance. For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official Tadeto website.
For further assistance, please contact Tadeto customer service.