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ETURBEV TA652A

ETURBEV TA652A Digital Noise Meter User Manual

1. Introduction

This manual provides detailed instructions for the safe and effective operation of your ETURBEV TA652A Digital Noise Meter. Please read this manual thoroughly before using the device and retain it for future reference. The TA652A is designed for accurate measurement of sound levels in various environments.

2. Product Overview

The ETURBEV TA652A is a handheld digital sound level meter equipped with a high-precision 1/2-inch condenser microphone. It features a clear digital display and intuitive controls for various measurement functions.

2.1 Device Components

- **Microphone:** Captures sound waves for measurement.
- **LCD Display:** Shows measurement readings, modes, and battery status.
- **Control Buttons:** For power, mode selection, range adjustment, and data functions.
- **Battery Compartment:** Houses the power source.
- **USB Port:** For external power supply.



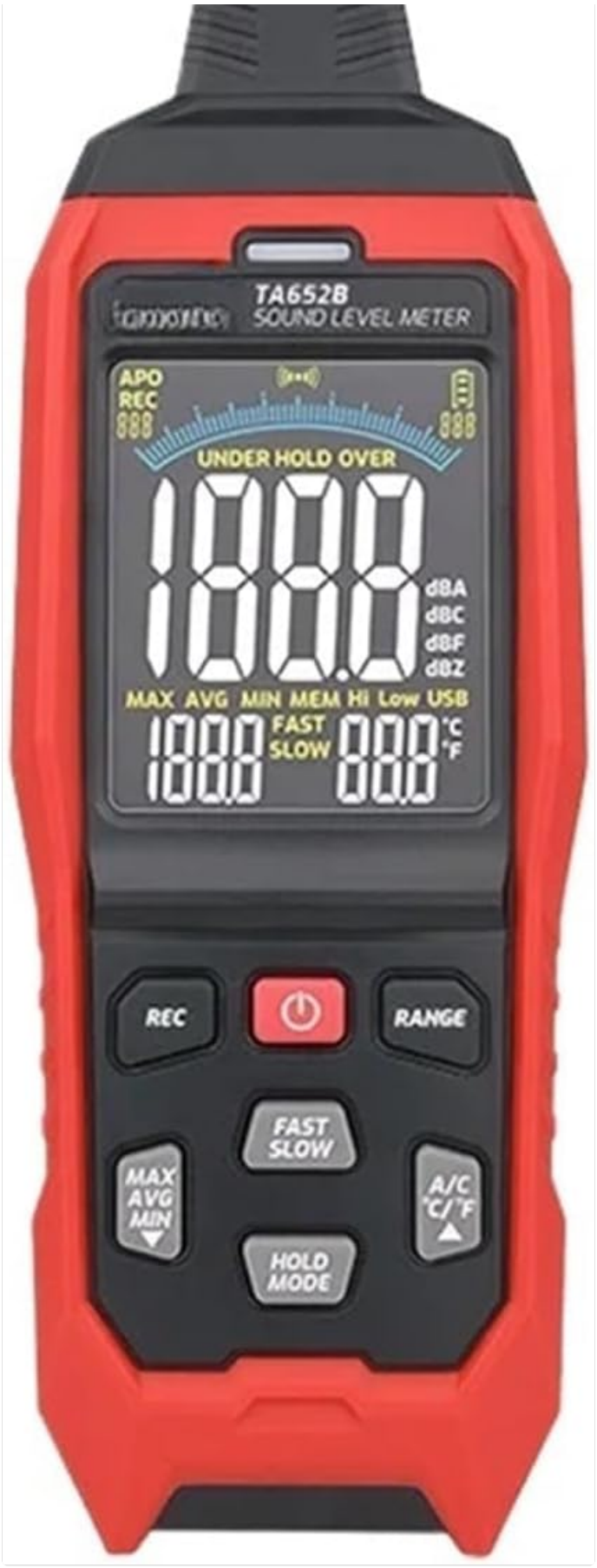

Figure 2.1: Front view of the ETURBEV TA652A Digital Noise Meter, showing the microphone, display, and control buttons.



Figure 2.2: The TA652A Noise Meter packaged with its protective carrying case and accessories.

3. Setup

3.1 Battery Installation

1. Locate the battery compartment cover on the back of the device.
2. Slide or unclip the cover to open the compartment.
3. Insert three (3) 1.5V AA (LR06) batteries, ensuring correct polarity (+/-).
4. Replace the battery compartment cover securely.

3.2 External Power Supply

The device can also be powered via a USB cable connected to its USB port. This allows for continuous operation without relying solely on batteries.



Figure 3.1: The battery compartment for three AA batteries and the USB port for external power.

4. Operating Instructions

4.1 Powering On/Off

- Press the **Power** button (usually marked with a circle and vertical line) to turn the device on.
- Press and hold the **Power** button for a few seconds to turn the device off.

4.2 Basic Measurement

1. Ensure the device is powered on.
2. Point the microphone towards the sound source.
3. The current sound level in decibels (dB) will be displayed on the LCD screen.



Figure 4.1: Close-up view of the high-precision 1/2-inch condenser microphone, essential for accurate sound level detection.

4.3 Button Functions

- **REC:** Initiates or stops data recording (if available).
- **RANGE:** Adjusts the measurement range (e.g., 30-80dB, 50-100dB, 80-130dB) for optimal accuracy.
- **FAST/SLOW:** Selects the response time of the meter. 'FAST' captures sudden noise changes, 'SLOW' provides an average reading over time.
- **MAX/AVG/MIN:** Toggles between displaying the maximum, average, or minimum sound level recorded during a measurement session.
- **HOLD/MODE:** 'HOLD' freezes the current reading on the display. 'MODE' may cycle through other display options or settings.
- **A/C/T:** Selects the frequency weighting mode (A or C for TA652A).

5. Measurement Modes (Frequency Weighting)

The TA652A supports different frequency weighting modes to simulate how the human ear perceives sound at

various levels.

- **A-Weighting (dBA):** This mode simulates the human ear's response to sound at lower to moderate levels. It is commonly used for environmental noise measurements and occupational noise exposure assessments.
- **C-Weighting (dBC):** This mode provides a flatter frequency response, simulating the human ear's response to high-intensity noise. It is often used for peak noise measurements or when assessing noise from machinery.

Note: The TA652A model supports A and C frequency weighting. Z-weighting (flat frequency response from 20Hz to 20kHz) is typically available on the TA652B model.



Figure 5.1: The display illustrating the different frequency weighting options: A-weighting (simulates human ear response), C-weighting (simulates high-intensity noise characteristics), and Z-weighting (flat response, available on TA652B).

6. Power Management

6.1 Dual Power Mode

The TA652A can be powered by three 1.5V AA (LR06) batteries or via its USB interface for continuous operation.

6.2 Automatic Power Off (APO)

To conserve battery life, the device features an automatic power-off function. If no operation is detected for 15 minutes, the meter will automatically shut down. This feature can typically be disabled by holding a specific button during power-on (refer to on-screen prompts or specific model instructions if available).

7. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use abrasive cleaners or solvents.
- **Storage:** Store the meter in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for extended periods, remove the batteries to prevent leakage.
- **Microphone Care:** Protect the microphone from dust, moisture, and physical impact to maintain accuracy.

8. Troubleshooting

- **Device does not power on:** Check battery installation and ensure batteries are not depleted. Try using external USB power.
- **Inaccurate readings:** Ensure the microphone is clean and unobstructed. Check the selected measurement range and frequency weighting mode.
- **Display issues:** If the display is dim or flickering, replace batteries or connect to external power.

9. Specifications

Parameter	Value
Model	TA652A
Measurement Range	30-130 dBA/C
Resolution	0.1 dB
Measurement Accuracy	±1.5 dB
Frequency Weighting	A, C
Operating Temperature	0-40°C (32-104°F)
Power Supply	3 x 1.5V AA (LR06) batteries or USB DC 5V
Automatic Power Off	Approx. 15 minutes of inactivity
Dimensions	229 x 70 x 35 mm (approx. 9.0 x 2.7 x 1.4 inches)
Item Weight	Approx. 1.76 ounces (without batteries)

10. Warranty and Support

For warranty information or technical support, please refer to the documentation provided with your purchase or contact the manufacturer directly. Keep your purchase receipt as proof of purchase.

Manufacturer: ETURBEV

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