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TestHelper SW-525A

SW-525A Sound Level Meter Tester User Manual

Model: SW-525A | Brand: TestHelper

1. Introduction

The TestHelper SW-525A Sound Level Meter Tester is a wall-hanging type decibel noise measuring device with a large red LCD display and alarm function. It is designed to measure noise levels ranging from 30 to 130dB, providing clear and immediate readings. This manual provides detailed instructions for the setup, operation, and maintenance of your sound level meter.

2. Package Contents

Please verify that all items listed below are included in your package:

- 1 x SW-525A Sound Level Meter
- 1 x USB Cable (Note: Power adapter is not included and must be supplied by the user.)
- 1 x User Manual

3. Product Overview

The SW-525A features a large digital LCD display for easy readability and intuitive controls for setting up the device.



Figure 3.1: Front view of the SW-525A Sound Level Meter, highlighting its large red LCD display.

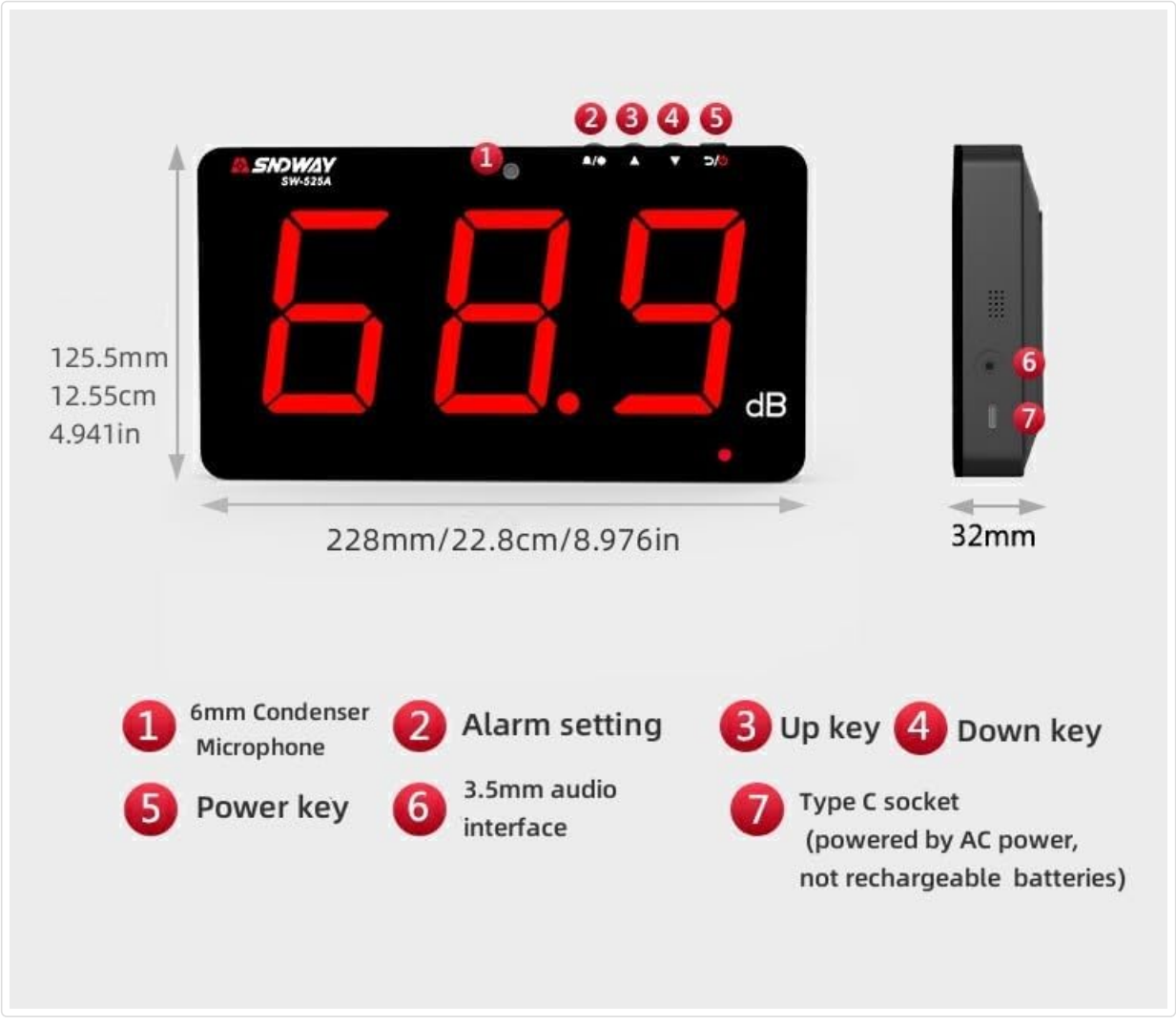


Figure 3.2: Detailed diagram illustrating the dimensions and key components of the SW-525A Sound Level Meter, including the microphone, alarm setting, up/down keys, power key, 3.5mm audio interface, and Type-C USB socket.



Figure 3.3: Rear view of the SW-525A Sound Level Meter, displaying the wall-hanging holes and product information label.

4. Setup

The SW-525A is designed for easy setup. Follow these steps to get your device ready for use:

1. **Power Supply:** Connect the provided USB cable to the Type-C USB port on the device. Plug the other end of the USB cable into a compatible DC 5V 1A USB power adapter (not included) or a USB socket. The device operates on AC power and does not contain a battery.
2. **Placement:** The device features hanging holes on the back, allowing it to be mounted on a wall for continuous monitoring. Ensure the microphone (located on the front, typically a small hole) is unobstructed for accurate readings.
3. **Initial Power On:** Once connected to power, the device should automatically power on and begin displaying decibel readings. If not, press the power button (usually indicated by a power symbol) to turn it on.

5. Operating Instructions

The SW-525A provides real-time sound level measurements and an adjustable alarm function.

5.1. Real-time Decibel Measurement

Upon powering on, the large LCD display will show the current sound level in decibels (dB). The measurement range is 30 ~ 130dB. In very quiet environments, readings may not drop below 40dB, which is considered normal for this device.

5.2. Setting the Alarm

The SW-525A features an alarm that triggers when the sound level exceeds a set threshold. The indicator light will blink and a buzzer will sound.

1. **Enter Alarm Setting Mode:** Press and hold the alarm setting button (often indicated by a bell or gear icon) for

approximately 2 seconds. The display will show the current alarm threshold (e.g., "85" for 85dB).

2. **Adjust Alarm Threshold:** Use the "Up" (▲) and "Down" (▼) buttons to increase or decrease the decibel threshold for the alarm.
3. **Set Alarm Duration:** Press the alarm setting button again briefly. The display will now show the alarm duration in seconds (e.g., "6" for 6 seconds). Use the "Up" (▲) and "Down" (▼) buttons to adjust how long the alarm will sound once triggered. The minimum duration is 6 seconds.
4. **Exit Setting Mode:** Press the power button (power symbol) briefly to save your settings and exit the alarm configuration mode.

5.3. Alarm Volume Adjustment

The alarm volume can be adjusted to suit your environment.

1. **Enter Volume Adjustment Mode:** While in normal operating mode, press and hold the "Up" (▲) button for approximately 2 seconds. The display will show the current volume level (e.g., "3").
2. **Adjust Volume:** Use the "Up" (▲) and "Down" (▼) buttons to increase or decrease the alarm volume.
3. **Exit Volume Adjustment Mode:** Press the power button (power symbol) briefly to save your settings and return to normal operation.

5.4. Power On/Off

To turn the device on or off, press and hold the power button (power symbol) for approximately 2 seconds.

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Video 5.1: Demonstration of the SW-525A Sound Level Meter's real-time decibel measurement and alarm functionality. This video shows the device displaying varying decibel levels and triggering its alarm when a high noise level is detected.

6. Maintenance

To ensure the longevity and accuracy of your SW-525A Sound Level Meter, follow these maintenance guidelines:

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Environment:** Store and operate the device within the specified working environment temperatures (0 - 40°C / 32 - 104°F) and humidity (10 - 80%RH). Avoid extreme temperatures, direct sunlight, and high humidity.
- **Microphone Care:** Keep the microphone clean and free from dust or obstructions to ensure accurate sound detection.
- **Power:** Always use the specified DC 5V 1A Type-C USB power supply.

7. Troubleshooting

If you encounter issues with your SW-525A, refer to the following common problems and solutions:

- **Device does not power on:**
  - Ensure the USB cable is securely connected to both the device and a working USB power adapter/socket.
  - Verify that the power adapter/socket is providing DC 5V 1A output.
  - Press and hold the power button for 2 seconds to ensure it's not just in standby.
- **Inaccurate readings or no readings:**
  - Check if the microphone is obstructed or dirty. Clean gently if necessary.
  - Ensure the device is placed in an open area, away from direct sound sources that might skew readings.
  - Note that in very quiet rooms, readings may not go below 40dB, which is normal operation.

- **Alarm not sounding or sounding incorrectly:**
  - Verify the alarm threshold is set correctly (refer to Section 5.2).
  - Check the alarm duration setting (refer to Section 5.2).
  - Adjust the alarm volume (refer to Section 5.3) to ensure it's audible.

8. Specifications

Feature	Specification
Model	SW-525A
Measurement Range	30 ~ 130dB (dB)
Accuracy	+1.5 dB (reference sound pressure level, 94dB @ 1kHz)
Frequency Response	31.5Hz ~ 8.5kHz
Frequency Weighting	A
Response Time	Fast
Microphone	6mm condenser microphone
Power Supply	DC 5V 1A Type-C USB
Working Environment	0 - 40 degrees Celsius (32 - 104 degrees Fahrenheit), 10 - 80%RH
Storage Temp. and Humidity	-10 - 60 degrees Celsius, 10 - 70%RH
Product Dimensions	22.8cm x 12.5cm x 3.2cm (8.96in x 4.91in x 1.26in)
Item Weight	0.6 Kilograms (1.32 pounds)
Material	Plastic Acrylic

9. Warranty and Support

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official TestHelper website. Keep your purchase receipt for warranty claims.

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