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TestHelper SW-525B

TestHelper SW-525B Sound Level Meter with Data Logger Instruction Manual

Model: SW-525B

1. Introduction

The TestHelper SW-525B is a wall-hanging type sound level meter designed for continuous monitoring of noise levels. It features a large LCD display for clear readability, a measurement range of 30 to 130 dB, and includes data logging capabilities for recording and exporting measurement data. This manual provides detailed instructions for the proper setup, operation, and maintenance of your device.

2. Product Features

- Large 9.6-inch LCD display for easy viewing.
- Measurement range: 30 to 130 dB.
- Accuracy: ±1.5 dB.
- Data export and memory storage function.
- Sampling rate: 2 times/second.
- Integrated alarm function for noise level alerts.
- Power supply: DC 5V 1A via micro USB.
- Product dimensions: 22.8 cm x 12.5 cm x 3.2 cm (8.96 in x 4.91 in x 1.26 in).

3. Device Layout and Components

Familiarize yourself with the various parts of your SW-525B sound level meter:



Figure 3.1: Front View with Labeled Components

This image displays the front of the SW-525B sound level meter, highlighting key components such as the 6mm condenser microphone, alarm setting button, up key, down key, and power key. It also shows the 3.5mm audio interface and Type C socket on the side.



Figure 3.2: Rear View with Mounting Points

The rear view of the device shows the wall-hanging holes for mounting and a label detailing product specifications and button functions.

Button Functions:

Button Icon	Description	Function
↵/	Power ON/OFF key	Short press for power on, hold for power off.
▼	Down key	Short press for reducing value while setting, hold for continuous reducing.
▲	Up key	Short press for increasing value while setting, hold for continuous increasing.
/⚙	Alarm ON/OFF key	Short press to turn alarm ON/OFF, hold for setting alarm parameters.

4. Setup

4.1 Power Connection

Connect the provided micro USB cable to the Type C socket on the side of the device and plug the other end into a DC 5V 1A power adapter (not included). The device is powered by AC power and does not use rechargeable batteries.

4.2 Mounting the Device

The SW-525B is designed for wall hanging. Use appropriate screws or hooks with the mounting holes located on the back of the device to secure it to a wall at a desired height and location for optimal sound measurement.

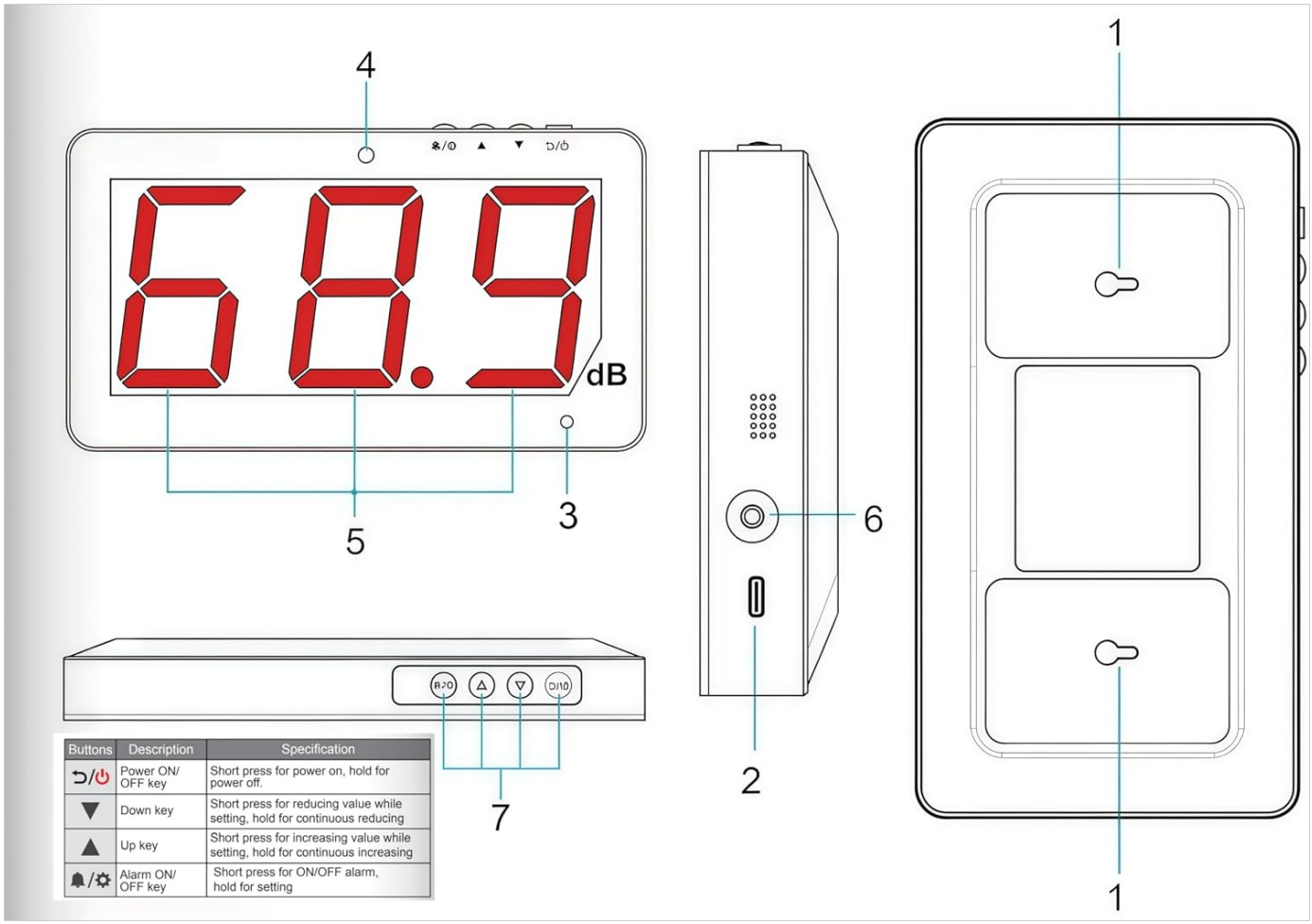


Figure 4.1: Wall Mounting Example

This image illustrates the sound level meter mounted on a wall in a library, demonstrating its intended use and visibility.

5. Operation

5.1 Powering On/Off

- To power on: Short press the Power ON/OFF key (↵/).
- To power off: Press and hold the Power ON/OFF key (↵/).

5.2 Sound Level Measurement

Once powered on, the device will immediately begin displaying the current sound level in decibels (dB) on its large LCD screen. The measurement range is 30 to 130 dB.

5.3 Alarm Function

The SW-525B includes an alarm function to alert users when sound levels exceed a set threshold.

- **Activating/Deactivating Alarm:** Short press the Alarm ON/OFF key (/⚙).
- **Setting Alarm Threshold:** Press and hold the Alarm ON/OFF key (/⚙) to enter setting mode. Use the Up (▲) and Down (▼) keys to adjust the desired decibel threshold. Short press to change values incrementally, or hold for continuous adjustment. Press the Alarm ON/OFF key again to confirm and exit setting mode.

5.4 Data Logging and Export

The device automatically saves measurement data every 2 seconds. This data can be stored for up to one year. After one year, data from the first half of the year will be automatically cleared to make space for new recordings.
To export data, connect the sound level meter to a computer using a USB cable. The device is compatible with dedicated software for data analysis. Refer to the troubleshooting section for software installation and usage tips.



Figure 5.1: Data Logging Software Interface

This image illustrates the sound level meter connected to a computer, showing the software interface for real-time measurement and data

analysis.

6. Maintenance

- Keep the device clean and free from dust. Use a soft, dry cloth for cleaning.
- Avoid exposing the device to extreme temperatures, humidity, or direct sunlight.
- Do not attempt to disassemble or repair the device yourself. Contact customer support for assistance.
- Ensure the microphone is not obstructed for accurate readings.

7. Troubleshooting

7.1 Software Installation and Data Export Issues

Some users have reported issues with the software provided on the included CD, including potential virus alerts or compatibility problems. It is recommended to download the latest software directly from the official TestHelper website.

- **Software Download:** Visit the official TestHelper website. Use a translation tool if necessary to navigate to the support or download section for the SW-525B model.
- **Data Import Errors:** If you encounter an error message such as "the field is too small to accept the amount of data you are adding" when importing data, adjust your computer's date and time format settings:
  - Short date: yyyy/M/d
  - Long date: yyyy-MM-dd
  - Short time: H:mm
  - Long time: HH:mm:ss

  These settings can typically be found in your operating system's Control Panel or System Settings under "Region" or "Date & Time" formats.
- **USB Cable Length:** The included USB cable may be short. If needed, acquire a longer USB cable for convenient connection to your computer.

7.2 No Display / Device Not Powering On

- Ensure the micro USB cable is securely connected to both the device and the power adapter.
- Verify that the power adapter is functioning correctly and providing DC 5V 1A output.
- Confirm that the power outlet is active.

7.3 Inaccurate Readings

- Check that the microphone is not covered or obstructed.
- Ensure the device is placed in an environment free from excessive vibrations or electromagnetic interference.

8. Specifications

Feature	Detail
Model Number	SW-525B
Measurement Range	30 ~ 130 dB
Accuracy	±1.5 dB

Feature	Detail
Sampling Rate	2 times/second
Power Supply	DC 5V 1A micro USB
Product Dimensions (L x W x H)	22.8 cm x 12.5 cm x 3.2 cm (8.96 x 4.91 x 1.26 inches)
Item Weight	1.35 pounds
Material	Plastic
Special Features	Alarm, Data Logger
Included Components	Cable

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