SNDWAY SW-525B

SNDWAY SW-525B Digital Sound Level Meter

Instruction Manual

Model: SW-525B | Brand: SNDWAY

1. Introduction

The SNDWAY SW-525B Digital Sound Level Meter is a precision instrument designed for measuring sound levels in various environments. This device features a large LCD display for clear readings and can be conveniently wall-mounted or hung. It is suitable for monitoring noise levels in homes, offices, factories, construction sites, and other settings where accurate sound measurement is required.

This manual provides detailed instructions for the proper setup, operation, and maintenance of your SW-525B sound level meter to ensure optimal performance and longevity.

2. Product Overview

2.1 Key Features

- Measurement Range: 30 to 130dB
- Accuracy: ±1.5dB (reference sound pressure level, 94dB@1KHz)
- Frequency Response Range: 31.5Hz~8.5KHz
- Large 9.6 inch LCD display with backlight for clear visibility
- USB connectivity for data download, sample collection, and chart/date printing
- Powered by DC 5V 1A Micro USB Outlet

2.2 Parts Identification

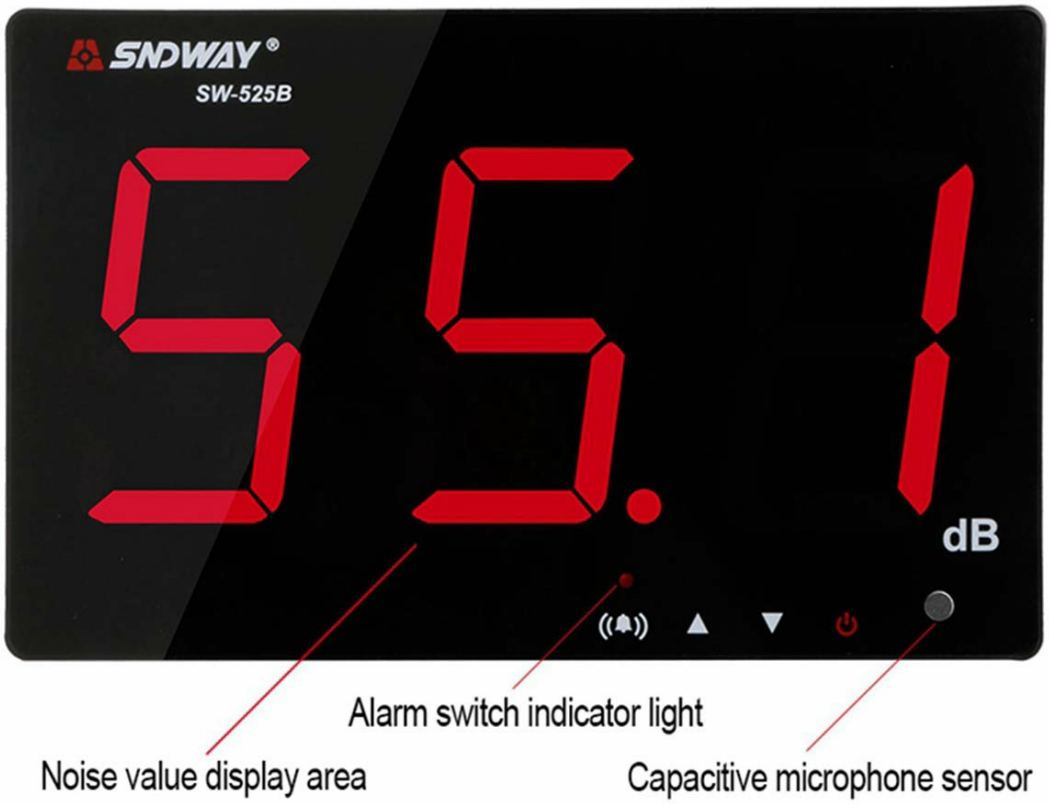
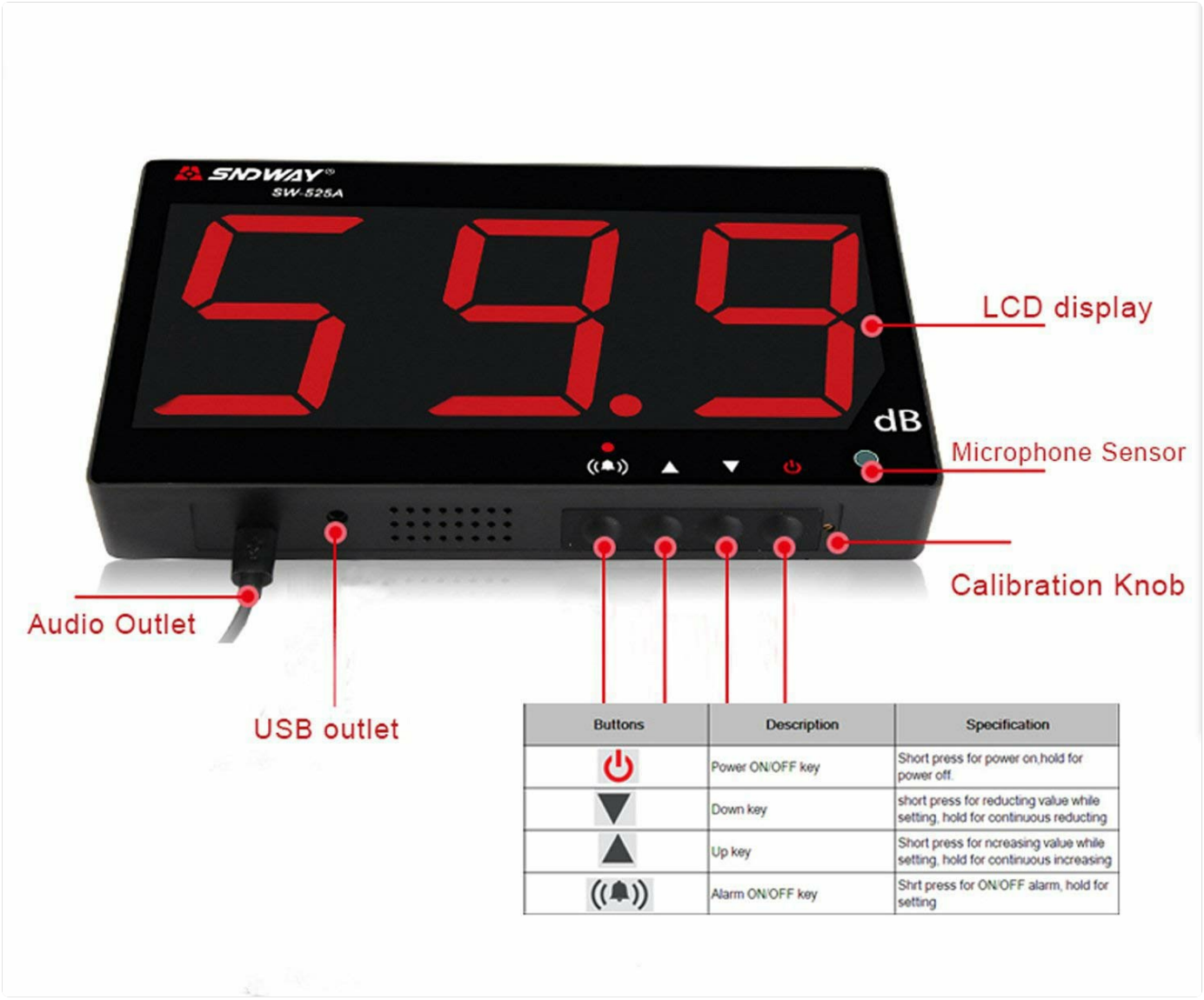


Figure 2.2.1: Front Panel Overview

Identifies the noise value display area, alarm switch indicator light, and capacitive microphone sensor.



Buttons	Description	Specification
⏻	Power ON/OFF key	Short press for power on,hold for power off.
▼	Down key	short press for reducting value while setting, hold for continuous reducting
▲	Up key	Short press for ncreasing value while setting, hold for continuous increasing
((🔔))	Alarm ON/OFF key	Shrt press for ON/OFF alarm, hold for setting

Figure 2.2.2: Side Panel Controls and Ports

Details the LCD display, Microphone Sensor, Calibration Knob, Audio Outlet, USB outlet, and a table describing button functions (Power ON/OFF, Down key, Up key, Alarm ON/OFF key).



① USB power socket

② The alarm is exported, used for external horn, the product does not have the horn

③ Set the alarm switch. ④ On the key ⑤ The key

⑥ Key to power supply

⑦ Calibration knob, manufacturer reserved, factory has been calibrated, please do not adjust

Figure 2.2.3: Numbered Component Diagram

Illustrates key components: USB power socket, Alarm export (for external horn, product does not have internal horn), Set the alarm switch, On key, The key, Key to power supply, Calibration knob (factory calibrated, do not adjust).

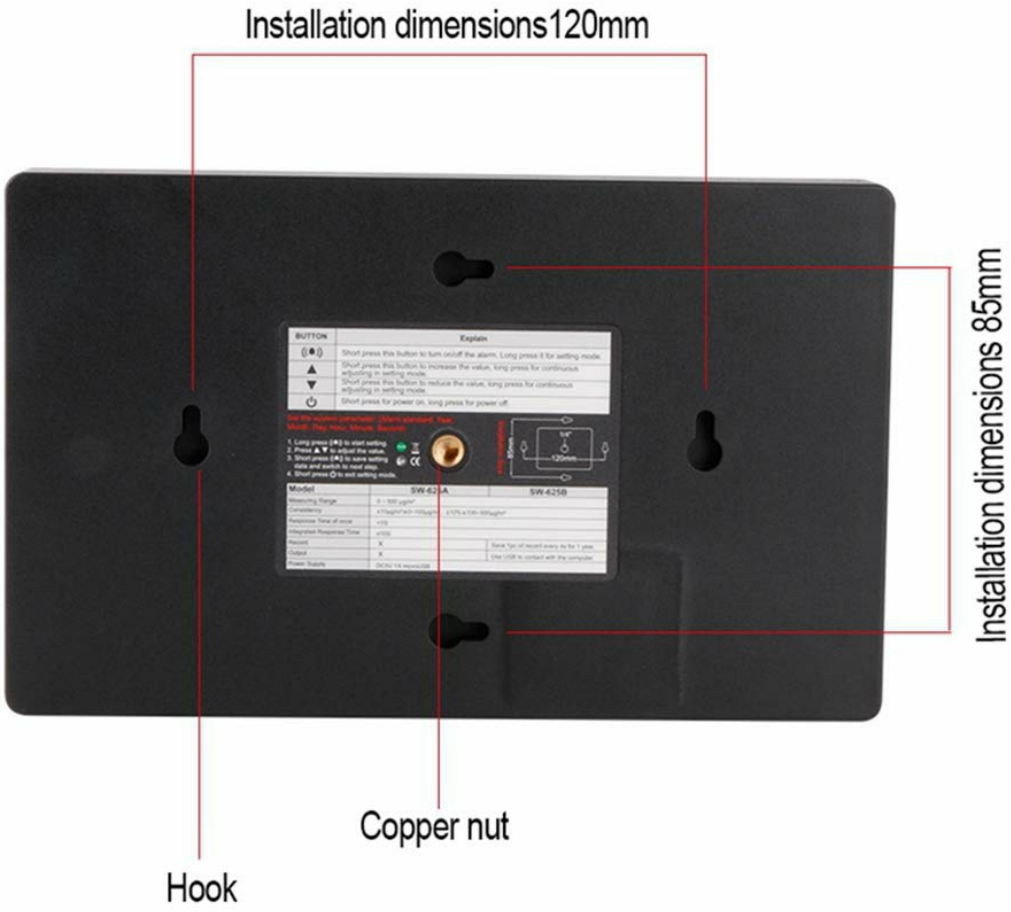


Figure 2.2.4: Rear Panel and Mounting Points

Shows the back of the device with installation dimensions (120mm and 85mm), hooks for hanging, and a copper nut for tripod mounting.

3. Setup

3.1 Power Connection

Connect the device to a DC 5V 1A Micro USB power source using the provided USB cable. The power input port is located on the side of the unit (refer to Figure 2.2.3, item).

3.2 Mounting the Device

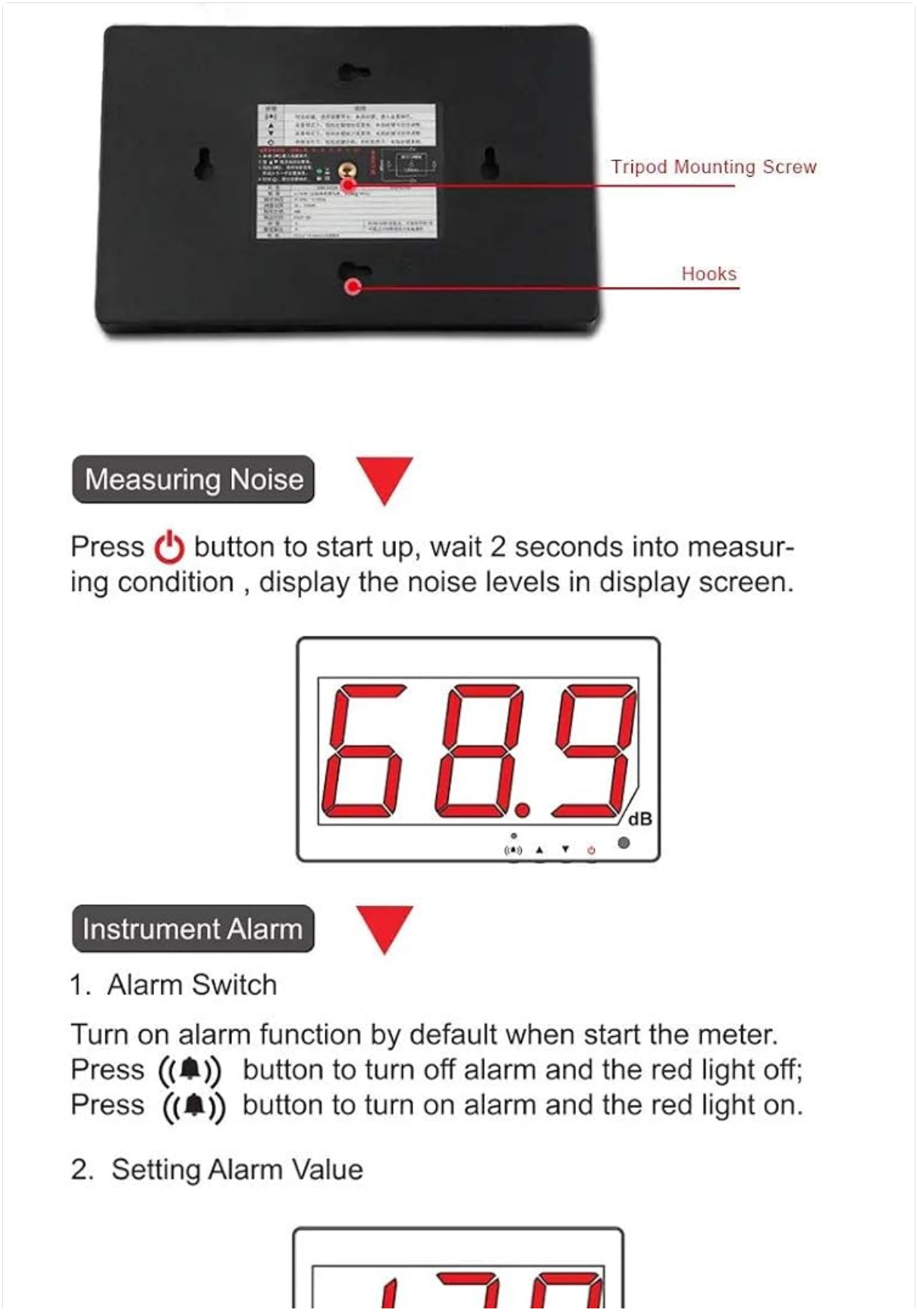
The SW-525B can be wall-mounted or placed on a surface. For wall mounting, utilize the integrated hooks on the rear panel (refer to Figure 2.2.4). Ensure the mounting surface is stable and capable of supporting the device's weight. The device also features a tripod mounting screw for alternative placement.

3.3 Initial Power On

After connecting the power, press the power ON/OFF key (refer to Figure 2.2.2) to turn on the device. The large LCD display will illuminate.

4. Operating Instructions

4.1 Measuring Noise





The default alarm value is 130. Users can adjust it from 50 to 130dB

1) Press button ((🔔)) for a while into alarm setting, then it displays the alarm values and the red light blinks.

2) Press the buttons ▲▼ to adjust the alarm value and press buttons ▲▼ for a while to set up continuously.

3) Press button ((🔔)) to save alarm value or press power switch shortly to cancel setting to normal measuring condition.

Figure 4.1.1: Noise Measurement Display

Example of a noise level reading on the LCD display.

To begin measuring noise, press the power button () to start up the device. Wait approximately 2 seconds for the device to enter the measuring condition. The current noise level will then be displayed on the large LCD screen in decibels (dB).

4.2 Instrument Alarm Function

The device includes an alarm function to alert users when a set noise threshold is exceeded.

4.2.1 Alarm Switch

- The alarm function is turned on by default when the meter starts.
- Press the alarm button (♫) to turn off the alarm. The red indicator light will extinguish.
- Press the alarm button (♫) again to turn on the alarm. The red indicator light will illuminate.

4.2.2 Setting Alarm Value



Measuring Noise

Press ⏻ button to start up, wait 2 seconds into measuring condition , display the noise levels in display screen.

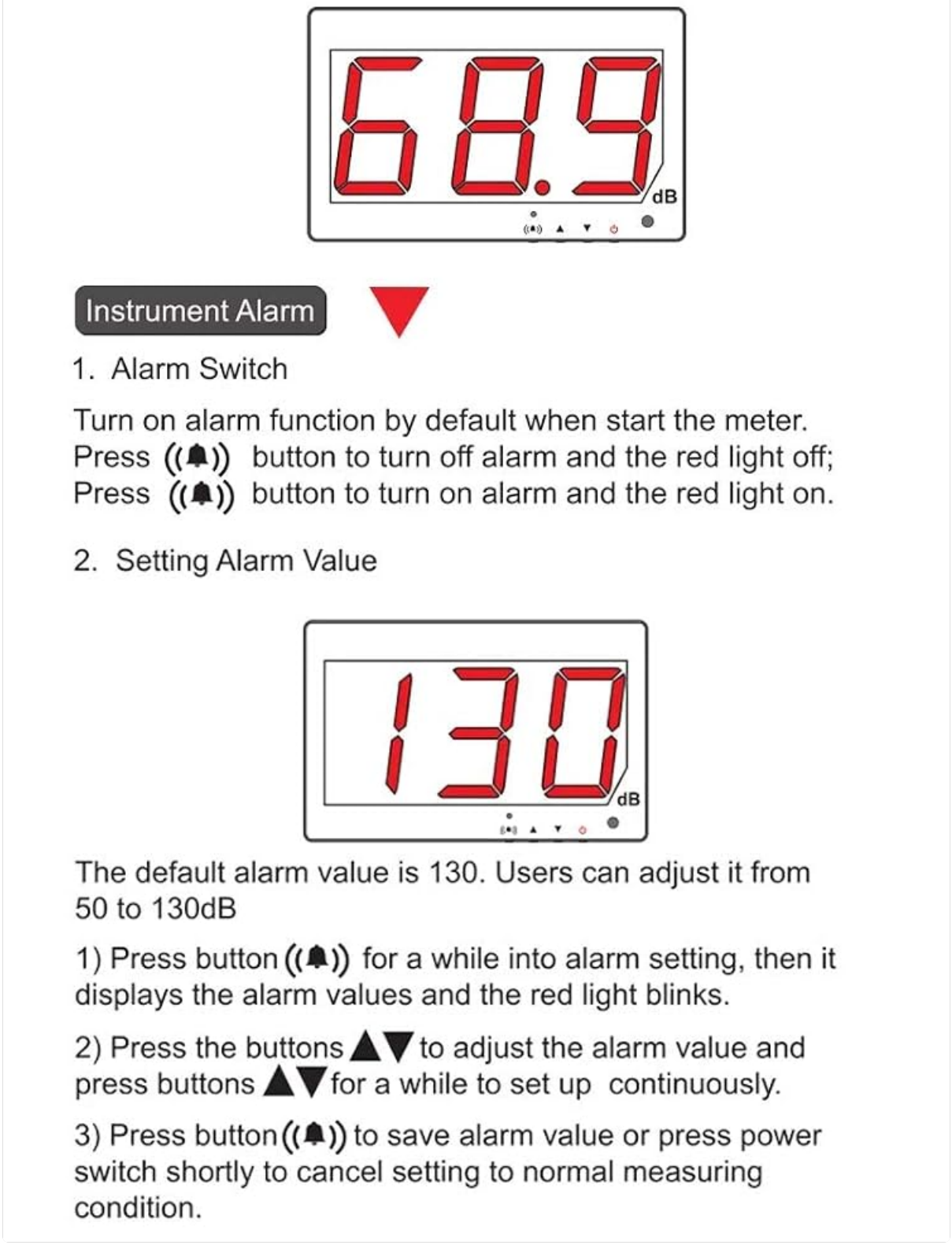


Figure 4.2.1: Alarm Value Setting

Example of setting the alarm threshold.

The default alarm value is 130dB. Users can adjust this value within the range of 50 to 130dB.

1. Press and hold the alarm button (♫) for a short period to enter the alarm setting mode. The display will show the current alarm value, and the red indicator light will blink.
2. Press the up (▲) and down (▼) buttons to adjust the alarm value. Hold the buttons for continuous adjustment.
3. Press the alarm button (♫) briefly to save the new alarm value, or press the power switch shortly to cancel the setting and return to normal measuring condition.

4.3 PC Software and Data Management



Figure 4.3.1: PC Software Interface

Screenshot of the NoiseMeter software for data analysis.

The SW-525B can be connected to a computer via a USB cable to download recorded data, collect real-time samples, and print charts and dates. A software CD is included with the product for installation on your PC.

To use this feature:

1. Install the provided software from the CD onto your computer.
2. Connect the sound level meter to your computer using the USB cable.
3. Launch the software and follow the on-screen instructions to connect to the device, download data, or initiate real-time measurements.



Figure 4.3.2: Included Accessories
The product package includes the SW-525B unit, a USB cable, and a software CD.

5. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Calibration:** The calibration knob (refer to Figure 2.2.3, item) is factory-calibrated. Please do not attempt to adjust it, as this may affect the accuracy of the measurements.
- **Battery:** This device is powered via USB and does not use internal batteries. Ensure a stable 5V 1A power supply.

6. Troubleshooting

If you encounter issues with your SNDWAY SW-525B, please refer to the following common troubleshooting steps:

- **Device Does Not Power On:**
  - Ensure the USB power cable is securely connected to both the device and a working 5V 1A power source.
  - Verify that the power outlet is functional.
- **Inaccurate Readings:**
  - Ensure the microphone sensor is not obstructed.
  - Avoid placing the device in areas with strong electromagnetic interference.
  - Do not attempt to adjust the factory-calibrated knob.
- **PC Software Connection Issues:**
  - Ensure the USB cable is properly connected between the device and the computer.
  - Verify that the software drivers are correctly installed from the provided CD.
  - Try restarting both the device and the computer.

If the problem persists after attempting these steps, please contact the seller or manufacturer for further assistance.

7. Specifications

Attribute	Value
Brand	SNDWAY
Model Number	SW-525B (611864734309)
Measurement Range	30 to 130dB
Accuracy	±1.5dB (reference sound pressure level, 94dB@1KHz)
Frequency Response Range	31.5Hz~8.5KHz
Display	Large 9.6 inch LCD with backlight
Power Source	DC 5V 1A Micro USB Outlet
Connectivity	USB (for PC connection)
Color	Black
Item Weight	454 g (approx. 1 Pound)
Package Dimensions	23.1 x 18.3 x 5.7 cm
Included Components	Cable
Country of Origin	China

8. Warranty and Support

8.1 Extended Warranty

An optional 1-Year Extended Warranty may be available for purchase. Please refer to your point of purchase for details regarding extended warranty options and terms.

8.2 Customer Support

For technical support, service, or inquiries not covered in this manual, please contact the authorized seller or the manufacturer directly. Keep your purchase receipt and product model information readily available when seeking support.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question