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Walfront TA654B

Walfront Decibel Meter Sound Alarm User Manual

Model: TA654B (Internal Model: WALFRONTg5udpzanci)
Digital Large LCD Display Mounted Temperature Humidity Measuring Level Db Tester

INTRODUCTION

This manual provides detailed instructions for the Walfront TA654B Decibel Meter. This device is designed for accurate measurement of sound levels, temperature, and humidity, featuring a large digital LCD display and alarm functions. It is suitable for various environments requiring noise monitoring.



Figure 1: Walfront TA654B Decibel Meter and included accessories. The main unit features a large red LED display, with a wired external sensor, USB cable, and mounting hardware visible.

KEY FEATURES

- **Digital Screen:** Features a 13-inch large LCD display for clear real-time viewing of decibel levels, temperature, and humidity, with adjustable brightness.
- **Wide Measuring Range:** Capable of measuring sound levels from 30dB to 130dB.
- **Alarm Prompt:** Emits an audible alarm when the measured value exceeds the preset alarm threshold (default 130dB).
- **Levels Display Bar:** Includes an analog bar indicator with 6 bars for noise decibel display. Green for 30-75dB, red for 76-130dB.
- **Multiple Installation Methods:** Designed for wall hanging, desktop placement using a bracket, or other versatile setups.
- **Good Cooling:** The back panel incorporates multiple heat dissipation vents for enhanced durability and long-term operation.

- **External Sensor:** Utilizes a 6mm condenser microphone sensor for high accuracy and sensitivity.
- **Data Connection:** Equipped with a Micro USB interface for data output and power supply.

PACKAGE CONTENTS

Please check the package carefully to ensure all items are present:

- 1 x Walfront TA654B Noise Meter
- 1 x Data Cable (Micro USB)
- 1 x Positioning Sheet
- 2 x Hanging Hooks
- 1 x Probe Pendant (External Sensor)
- 3 x Screws
- 1 x User Manual (this document)



Figure 2: All accessories included in the package. This includes the USB cable, a mounting bracket, two hanging hooks, and three

SETUP

1. Power Supply

Connect the provided Micro USB data cable to the meter's Micro USB interface and plug the other end into a DC5V 1A power adapter (not included) or a compatible USB power source. The device will power on automatically.



Figure 3: The decibel meter connected to a power outlet via its Micro USB interface. This image also highlights the 13-inch large screen, 30-130db measuring range, multiple heat dissipation vents, and multiple installation methods.

2. Sensor Connection

The external 6mm condenser microphone sensor (probe pendant) should be connected to the designated port on the meter. This sensor is crucial for accurate sound level measurements.

SENSOR TYPE:

6mm condenser microphone sensor. With high-accuracy, high sensitivity, and fast instantaneous response characteristics. (External sensor)



Figure 4: The external 6mm condenser microphone sensor connected to the decibel meter. This sensor provides high accuracy, high sensitivity, and fast instantaneous response characteristics.

3. Installation Methods

The Walfront TA654B offers flexible installation options to suit various environments:

- **Wall Mounting:** Use the provided screws and positioning sheet to securely mount the meter on a wall.
- **Hanging Type:** Utilize the hanging hooks to suspend the meter from a ceiling or other overhead structure.
- **Concealed Stand:** The meter includes a built-in stand for desktop placement.
- **External Stand:** An additional bracket can be used for more stable desktop positioning.



> Wall Mounting



> Hanging Type



> Concealed Stand



> External Stand

Figure 5: Visual examples of the four primary installation methods: Wall Mounting, Hanging Type, Concealed Stand, and External Stand, demonstrating the meter's versatility.

OPERATING INSTRUCTIONS

1. Power On/Off

The device powers on automatically when connected to a power source. To turn off, disconnect the power supply.

2. Reading the Display

The large 13-inch LCD display shows the real-time decibel level, temperature, and humidity. The refresh rate is 2 times per second for dynamic monitoring.

- **Decibel Level:** Displayed prominently in large red digits.
- **Temperature & Humidity:** These values are also shown on the display.
- **Level Display Bar:** An analog bar on the right side of the screen provides a quick visual indication of noise levels:

- Green bars indicate levels between 30-75dB.
- Red bars indicate levels between 76-130dB.

MEASURING RANGE: 30DB-130DB
ACCURACY: ± 1.5 DB (SUBJECT TO STANDARD
SOUND SOURCE, 94DB AT 1KHZ)



6 LEVEL DISPLAY BAR:

With analog bar level indication, 6 bars noise decibel display, 30-75dB display is green, 76-130dB display is red, clear and intuitive.

Figure 6: The meter displaying a decibel reading with the analog level bars. The image highlights the measuring range of 30dB-130dB and the accuracy of ± 1.5 dB. It also shows the 6-level display bar with green for 30-75dB and red for 76-130dB.

3. Alarm Function

The device features an alarm prompt system. The default alarm threshold upon power-on is 130dB. If the measured sound level exceeds this value, the decibel meter will emit an audible alarm sound and display a visual alert.

ALARM PROMPT:

The default alarm value for power on is 130dB. When the measured value exceeds the alarm value, the decibel meter will emit an alarm sound. The time can be set to 65~120 seconds.



Figure 7: The decibel meter displaying an alarm condition. The image illustrates the alarm prompt feature, where an audible and visual alert is triggered when the measured value exceeds the preset threshold, such as the default 130dB.

4. Data Connection (USB Interface)

The meter includes a USB interface for data connection. This allows for potential data logging or real-time monitoring on a computer, depending on compatible software (software not included, refer to manufacturer's website for availability).

Data Connection (with USB interface)



Figure 8: The decibel meter connected to a computer via its USB interface, demonstrating its data connection capability for monitoring or logging.

5. Multiple Scenes Use

The Walfront TA654B is versatile and can be used in various environments for noise monitoring, including but not limited to:

- Factories
- Schools
- Coffee Houses
- Offices
- Traffic Roads
- Residential Areas

Multiple Scenes Use



Factory



School



Coffee House



Office



Traffic Road



Family

Figure 9: Examples of the decibel meter being used in multiple scenes such as a factory, school, coffee house, office, traffic road, and family setting, illustrating its broad applicability.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the display and casing. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use for extended periods, store the meter in a cool, dry place within the specified storage temperature and humidity ranges (-10-60°C, max 70% RH).
- **Sensor Care:** Handle the external sensor with care to avoid damage. Keep it free from dust and moisture.
- **Avoid Impact:** Protect the device from strong impacts or vibrations, which can affect its accuracy and functionality.
- **Heat Dissipation:** Ensure the heat dissipation vents on the back panel are not obstructed to maintain optimal performance and longevity.

TROUBLESHOOTING

If you encounter issues with your Walfront TA654B Decibel Meter, please refer to the following common problems and solutions:

- **No Display/Device Not Powering On:**

- Ensure the Micro USB cable is securely connected to both the meter and a functional DC5V 1A power source.
- Verify the power adapter or USB port is supplying power.

- **Inaccurate Readings:**

- Check if the external sensor is properly connected and undamaged.
- Ensure the sensor is not obstructed or covered.
- Avoid placing the meter in areas with extreme temperature fluctuations or high electromagnetic interference.
- The accuracy is $\pm 1.5\text{dB}$ (subject to standard sound source, 94dB at 1KHz). Readings outside this might indicate an issue or environmental factor.

- **Alarm Not Triggering:**

- Confirm that the sound level exceeds the set alarm threshold. The default is 130dB.
- Check if the alarm function is enabled (if adjustable, though the manual implies it's always active when threshold is met).

- **"Hi" or "Lo" Displayed:**

- "Hi" indicates the measured sound level is above the maximum measurable range (130dB).
- "Lo" indicates the measured sound level is below the minimum measurable range (30dB).

If the problem persists, please contact Walfront customer support.

SPECIFICATIONS

Item Model Number	TA654B (WALFRONTg5udpzanci)
Measuring Range	30dB-130dB
Accuracy	$\pm 1.5\text{dB}$ (subject to standard sound source, 94dB at 1KHz)
Frequency Response	31.5Hz-8.5KHz
Frequency Weight	A Weight
Response Time	FAST, 0.5 Seconds
Sensor Type	6mm condenser microphone sensor
Digital Display	3 Digits, 13-inch LCD
Resolution	0.1dB (for values below 100dB)
Alarm Prompt Mode	Sound and Display
Alarm Output	12V
Refreshing Speed	2 times per second

Power Supply Mode	DC5V 1A Micro USB Interface
Working Temperature & Humidity	0-40°C; Max 80% RH, indoor altitude
Storage Temperature & Humidity	-10-60°C, Max 70% RH
Over Range Display	"Hi" or "Lo"
Package Dimensions	15.94 x 9.92 x 3.54 inches
Weight	3.76 Pounds
Manufacturer	WALFRONT

WARRANTY AND SUPPORT

Walfront products are designed for reliability and performance. For specific warranty information, please refer to the warranty card included with your purchase or visit the official Walfront website. If you require technical assistance or have questions not covered in this manual, please contact Walfront customer support through their official channels. You can visit the Walfront store on Amazon for more information: [Walfront Store](#)

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