

Sound Level Meter Instruction manual



(bluetooth version only) Please use BaiDu mobile assistant to scan the QR code to download "dB-Tester" App



(bluetooth version only) Please scan the QR code to download dB-Tester App from Google Play.

Attention: dB-Tester only supports Android 5.0 version or above.

Version: WT85/WT85B-CH-00

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A. Introduction

The appearance design of digital sound level meter is novel, small and portable(App is just for the bluetooth version only). The digital sound level meter is applicable for measurement of noise engineering, quality control, health prevention and various environmental noise, including noise measurement in such various places as factories, offices, transporting routes, families, stereo equipment and other places.

Production Function:

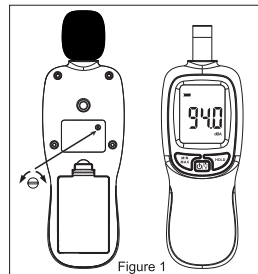
1. The digital sound level meter is equipped with APP for mobile phone which communicates with the meter through Bluetooth and offers various operations of sound level meter.
2. The meter has recording function, up to 20,000 data can be recorded (App is just for the Bluetooth version only).
3. Sound level measurement.
4. MIN/MAX/ Lock current value.
5. LCD backlight function.
6. Manual/auto shutoff.
7. Backlight alarming

B. Calibration Method

*Please use 94dB@1KHz standard sound source

1. Carefully plug the microphone head in 1/2 inch hole of standard sound source (94dB@1KHz);
2. Turn on the power switch of standard sound source(94dB@1KHz), use straight screwdriver to adjust potentiometer located in the opening hole within the machine stick, and make LCD display 94.0(referring to Figure 1).

*The meter has been adjusted properly; the recommended calibration interval is one year.



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C. Name of Each Component (referring to Figure 2)

- ①. Power switch/Backlight power button
- ②. Maximum/Minimum locking key
- ③. Measurement data hold key
- ④. LCD display
- ⑤. Electric condenser microphone
- ⑥. Wind-resistant ball
- ⑦. Calibration knob
- ⑧. Machine stick
- ⑨. Battery door

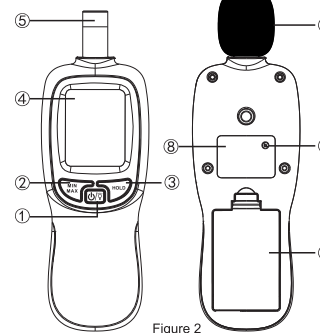


Figure 2

D. LCD Display (referring to Figure 3)

- ①. Battery power prompt sign.
- ②. Bluetooth (Bluetooth version only).
- ③. OVER warning sign/reading exceeding measuring range.
- ④. Data retention.
- ⑤. Maximum value.
- ⑥. Minimum value.
- ⑦. Sound level reading value
- ⑧. Sound level unit of (A weighting)

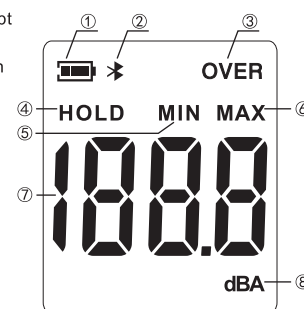


Figure 3

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E. Operating Instructions

1. Open the battery cover, put 3 AAA size batteries of 1.5V, (see Figure 4).
2. Close the battery cover.

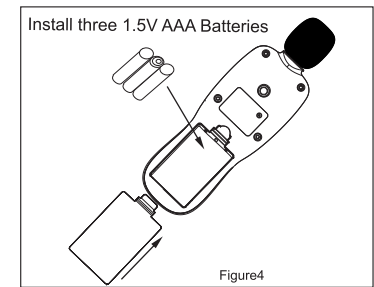


Figure 4

3. Read the sound level:
Press the power button "ON/OFF", after the 1s full screen of LCD panel, instantly display the sound level value of the current environmental noise, the value changes according to the magnitude of the environmental noise.
4. Lock the minimum sound level value:
Press "MIN/MAX", enter "MIN" measuring mode; the current value will be locked until the minimum value appears and replaces the current value.
5. Lock the maximum sound level value:
Press "MIN/MAX" again, enter "MAX" measuring mode, the current value will be locked until the maximum value appears and replaces the current value, press "MIN/MAX" again, return to measuring mode.
6. Measuring data retention:
Press "HOLD", the current measuring value will be locked, press "HOLD" again, quit the lock.
7. LCD backlight operating:
Momentarily press "ON/OFF", LCD backlight is on, press "ON/OFF" momentarily again, LCD backlight is off.
8. Shutoff:
The meter will automatically power off by default for 10

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minutes without any operation, or press "ON/OFF" for two seconds, the meter will be turned off by manual, press "ON/OFF" for three seconds when the meter is power-on, the LCD displays "UOF", the meter just can be turned off by manual other than automatic power-off.

9. Backlight alarming setting:

- 1). After turning on, press Hold key until the character HOLD displays on LCD.
- 2). Press the key for about 2 seconds to turn off the device. When the dBA

10. Bluetooth function (App is just for the Bluetooth version only):

After turning on the meter, long press HOLD button for about 2s to turn on/off Bluetooth. When Bluetooth is on, icon of Bluetooth appears on the screen. At this time, sound level meter can be connected with APP, which transmit real-time measured and recorded noise value in the meter to mobile phone.

11. Recording function (App is just for the Bluetooth version only):

After turning on the meter, long press MAX/MIN button for about 2s to turn on/off recording function. When recording function is on, db characters flashes on the screen. The meter records one datum every 1s by default, up to 20,000 items of data can be recorded. When data record is full, the meter automatically stops recording and db characters no longer flash. Through Bluetooth connection, the recorded data can be uploaded to APP; also you can start or stop recording through APP.

F. Considerations

1. When the electric power of battery is insufficient, "BAT" symbol may appear on LCD to show that the electric power of battery is insufficient; the new battery must be replaced.
2. Please do not use the meter under a high temperature and humid environment.
3. Please take out the batteries when not in use for a long time to avoid electrolyte leakage and damaging the meter.
4. When measuring the noise outside, please mount the wind-resistant ball on the head of the microphone to prevent the microphone from being directly blown by wind and measuring other noise.

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Product Maintenance:

1. Regularly wipe the meter with a dry cloth, please do not use solvent to clean up the meter.

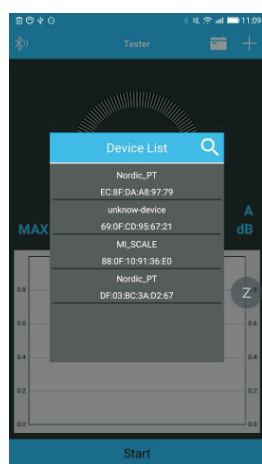
G. Technical Parameters

Measuring Range	30~130dBA
Accuracy	± 1.5dB
Frequency Response	31.5Hz~8KHz
Frequency Weighting Features	A Weighting
Resolution	0.1dB
Working Temperature and Humidity	0~40°C, 10~80%RH
Storage Temperature and Humidity	-10~60°C, 0~90%RH
Power Source	3*1.5V AAA Batteries
Weight	96.38g(Excluding Battery)
External Dimension	56.1*177*36.03mm

Specific Declarations:

Our company shall hold no any responsibility resulting from using output from this product as an direct or indirect evidence. We reserves the right to modify product design and specification without notice.

G. dB-Tester App Operation Instruction (bluetooth version only)

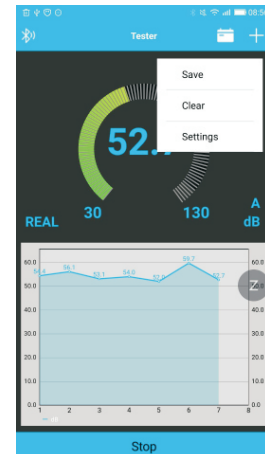


I. One. Bluetooth connection interface:

1. Click button of Bluetooth icon on the upper left corner of main interface so that Bluetooth connection window can pop out.
2. Click on the upper right corner of the window to search for Bluetooth devices. The search time is 5s.
3. Click on the device you need to connect.

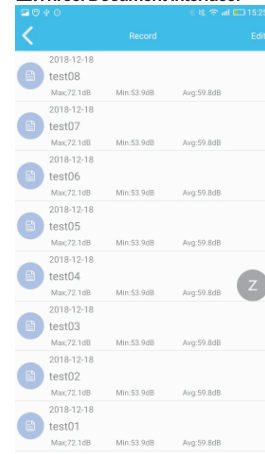
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II. Two. Main interface:



1. Button: click and Bluetooth connection window pops out.
2. + Button: Save: Save real-time data. Clear: Clear real-time data. Settings: Enter setting interface.
3. Document icon: Enter document interface.
4. Start button: Start real-time data sampling.
5. The upper half of interface displays real-time noise value.
6. The lower half of interface displays real-time noise value chart.

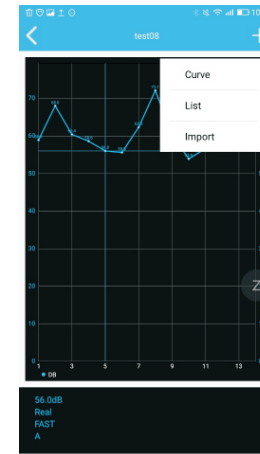
III. Three. Document interface:



1. Click "Edit" button to delete with multiple selection.
2. Click data to enter detailed data interface.

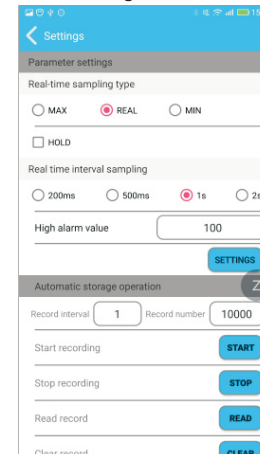
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IV. Four. Detailed data interface:



1. Data graph is as shown in the picture.
2. + Button: Curve: Switch data graph. List: Switch data list. Export: Export and save data in mobile phone in form of Excel and PDF

V. Five. Setting interface:



1. Parameter setting: real-time sampling types, real-time sampling interval and alarm value setting.
2. Automatic storage operation: recording interval: time interval of automatic recording. Number of records: The number of data automatically recorded. Start: Start automatic recording. Stop: Stop automatic recording. Read: Read automatic recorded data. Clear: Clear automatic recorded data.
3. File Management: Check Excel and PDF documents that have been exported to mobile phone.

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