Wintact®

○ **WT85**
○ **WT85B** (Bluetooth type)

Sound Level Meter
Instruction manual

(bluetooth version only) IOS version: scan the qr code to download the "db-tester" App

(bluetooth version only) Android version：Please use BaiDu mobile assistant to scan the QRcode to download "dB-Tester" App

(bluetooth version only) Android version：Please scan the QR codeto download "dB-Tester" from Google Play.

Attention: Db-tester App only supports android 5.0 and iOS 9.0 or above
Version：WT85/WT85B-EN-00

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. The meter has recording function, up to 20,000 data can be recorded (App is just for the Bluetooth version only).
2.Sound level measurement(dBA).
3.MIN/MAX/ Lock current value.
4.Hold the measurement data.
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 ½ inch hole of standard sound source (94dB@1KHz);

2.Turn on the power switch of standard sound source(94 dB@1KHz), use straight screwdriver to adjust potenti–ometer 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 recommen–ded calibration interval is one year.

Do not adjust the potentiometer if there is no audio source.(This instrument does not come with sound source calibrator.)
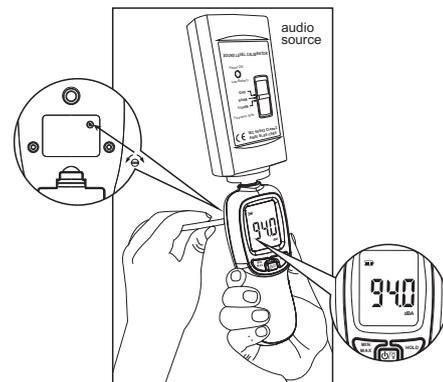
Figure 1 （Diagram of audio source calibration）

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
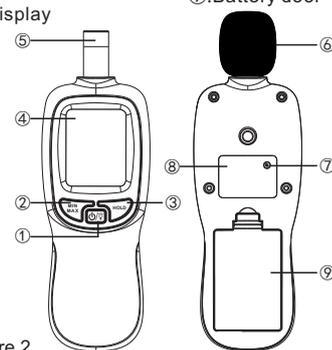
Figure 2

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.Minimum value.
⑥.Maximum value.
⑦.Sound level reading value
⑧.Sound level unit of (A weighting)
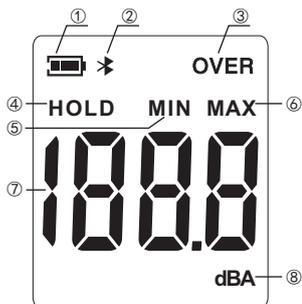
Figure3

E. Operating Instructions

1. Open the battery cover, put 3 AAA size batteries of 1.5V, (see Figure4).
2. Close the battery cover.

Install three 1.5V AAA Batteries
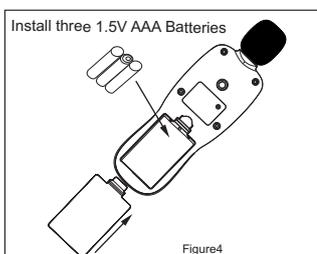
Figure4

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3. Read the sound level:
Press the power button" ", after the 1s full screen of LCD panel,instantly display the sound level value of the current environmental noise, the value changes accor-ding 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 " ", LCD backlight is on, press " "momentarily again, LCD backlight is off.

8. Shutoff:
The meter will automatically power off by default for 10 minutes without any operation, or press " " for two seconds, the meter will be turned off by manual,press " " 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 turnoff the device. When the dBA disappears at the right bott-om of the LCD, the alarmingsetting interface is ready for operation.
3).Pressing the key Min/Max and key Hold is todecre-ase or increase the value of alarming.
4).Pressing the on/off key is to save thealarming value

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set, and the measuring mode resorted. If the current value isbeyond the setting the backlight flashes.

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 ver-sion 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 connecti-on, 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, " " 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.

Product Maintenance: 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℃，10~80%RH
Storage Temperature and Humidity	-10~60℃，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.

H. Android and ios"dB-Tester" App Operation Instruction (bluetooth version only)

Ⅰ. Bluetooth connection interface:

Android   IOS
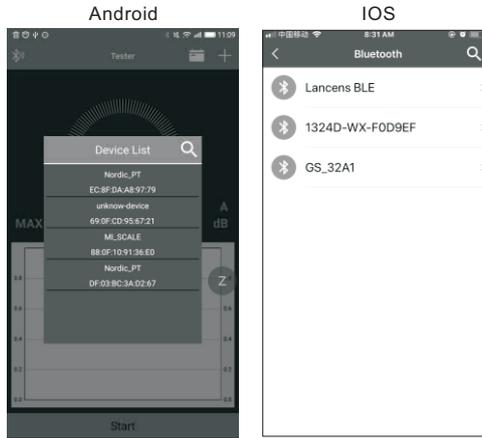
1. Click button of Bluetooth icon on the upper left corner of main interface so that Bluetooth connection window can pop out.

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.

Ⅱ. Main interface:

Android   IOS

1. ![bluetooth] Button: click and Bluetooth connection window pops out.

2. ![plus] Button:
   Save: Save real-time data.
   Clear: Clear real-time data.
   Settings: Enter setting interface.

3. ![doc] Button: 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. Document interface:

Android   IOS
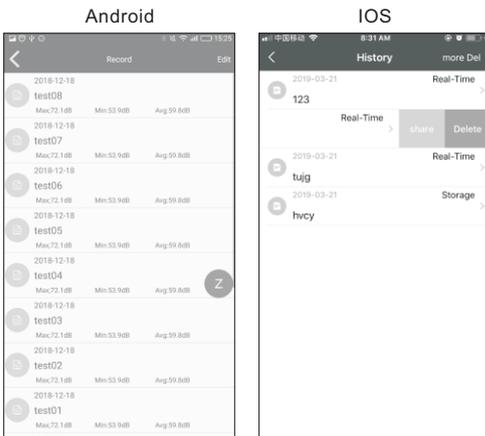
1. Click "Edit" button to delete with multiple selection.

2. Click data to enter detailed data interface.

1.Click the "Multiple delete" button and select delete.

2. Click to enter the data details interface.

3.The left slider has the option to delete a single set of historical data and share it with a third party.

4.There are two kinds of historical data: real-time data and stored data。
（（the data saved on the home page is displayed as "real-time data", and the data saved by the noise meter on the Setti-ngs page is displayed as "storage state") . ）

Ⅳ.Detailed data interface:

Android   IOS
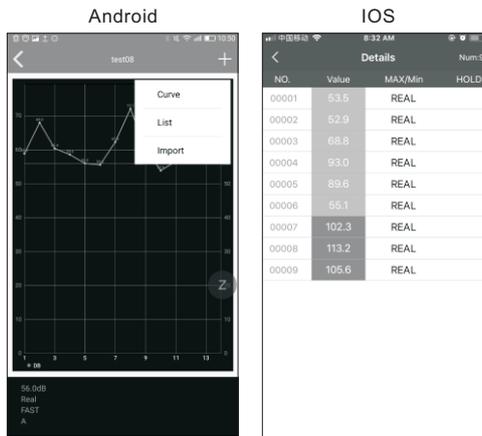
1. Data graph is as shown in the picture.

2. ![plus] Button:
Curve: Switch data graph.
List: Switch data list.
Export: Export and save data in mobile phone in form of Excel and PDF

1.This page displays the data as a list and displays the saved data as a list.

2.MAX/MIN represents the state of the maximum and minimum values;"HOLD" means whether it is in the "HOLD" state. If yes,that's the HOLD; If no, just space

Ⅴ. Setting interface:

Android   IOS
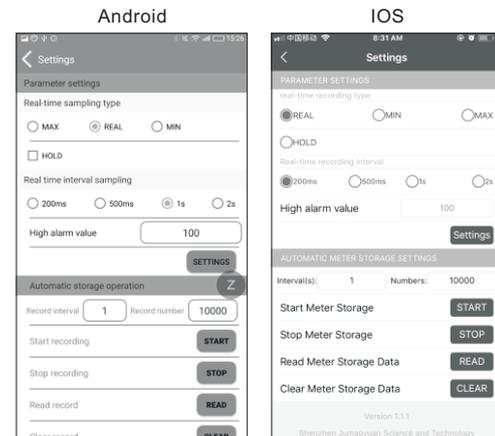
1. Parameter setting: real-time sampling types, real-time sampling interval and alarm value setting.

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.

Note: To view local Files in iOS version, you can enter "Files" app.

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