

SOUND LEVEL METER

USER MANUAL



SCAN THE QR CODE
to download
User Manual



TUTORIAL VIDEO ON HOW TO USE

Need more help? CONTACT US.



www.cd50.net/m390/

INTENDED USE

Thank you very much for your patronage and choosing our products. Before you use this product, please read this manual carefully as it will familiarize you with the correct operating procedure.

SYNCHRONIZE TIME VIA PC SOFTWARE FOR PROPER METER LOGGING

1. Download and install the free EnvironmentalTester software from the QR code or URL provided below.

Scan the QR code:

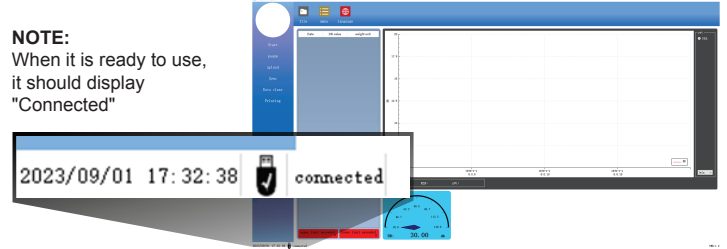


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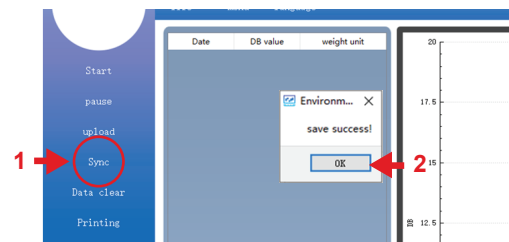
2. Launch the software and then connect the decibel meter to the computer using the provided USB cable. The software interface should appear as shown below, indicating that it is now ready for use.

NOTE:

When it is ready to use,
it should display
"Connected"



3. Click the "Sync" button to synchronize the current time



IMPORTANT

Prior to initial use, synchronize the device's clock via the software to ensure accurate timestamping of recorded data.

PRODUCT FEATURES

- Measurement range: 30~130dB.
- Includes A/C/Z frequency weighting selection and FAST/SLOW time-weighted options.
- Data hold and MAX/MIN/AVG measurement functions
- Supports data download and real-time PC connection, displaying data sheets and charts. Allows exporting and printing of data sheets and charts. PC software compatible with Win7, Win8, Win10.
- Allows separate setting of upper and lower limits.
- Audible and visible alarm
- Analog bar scale indication and low battery alert function

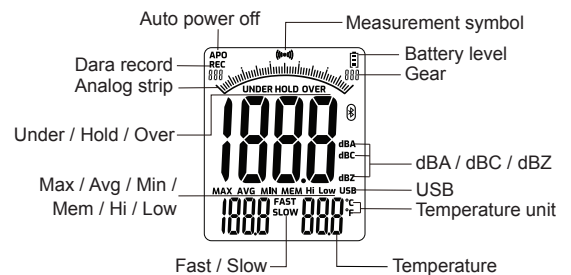
SPECIFICATION

| | |
|---------------------|---|
| Micro phone | High precision 1/2 inch micro phone |
| Range | 30~130dB |
| Measuring level | 30~70dB, 60~90dB, 80~110dB, 100~130dB |
| Resolution | 0.1dB |
| Accuracy | ±1.5dB(sound pressure reference, 94dB@1kHz) |
| Frequency weighting | A/C/Z weighting |
| Time weighting | 0.125s, SLOW: 1s |
| Sampling rate | 2 times/s |
| Frequency response | 31.5Hz~8kHz |
| Analog bar | One scale represents 1dB |
| Display | 4 digit, max 1999 |
| Ambient temp | Range: 0~60°C, Accuracy: ±2°C |
| Over range | "OVER-HI", "UNDER-LO" |
| Data logger | 1999 groups |
| Synchronous update | Refer to PC information for program update |
| Auto power off | 15 mins (can be canceled) |
| Working environment | -10~50°C, max 80%RH, indoor altitude <2000m |
| Storage environment | -10~50°C, max 70%RH (battery removed) |
| Product size | 229 x 70 x 35mm |
| Screen size | 53 x 44mm |
| Weight | Approx. 215g (battery not included) |
| Power | 3 x 1.5V AAA (LR06) battery Type-C interface 5V |

METER DESCRIPTION



DISPLAY



BUTTON FUNCTION DESCRIPTION



• Press it to power the meter on/off

NOTE: When powered via USB, manual shutdown is not possible



• Press and hold it for 2 seconds to start/stop recording

• While recording, press it to pause or continue recording



• Press it to switch the measurement range among 30~70dB, 60~90dB, 80~110dB, 100~130dB



• Press it to toggle between FAST and SLOW weighting



- Press it to cycle through MAX/MIN/AVG mode and display the value in the sub-window.
 - In setting mode, a single press decreases the value, while holding it down enables fast adjustment.
- NOTE:** The value is calculated from the moment you press the button.



- Press to switch between A/C/Z weighting.
- Press and hold for 2 seconds to switch the temperature unit.
- In setting mode, a single press increases the value, while holding it down enables fast adjustment.



- Press it to hold/release the current measured value.
 - Press and hold it for 2 seconds to access/exit the setting mode.
- While in setting mode, press it to cycle through Hi/Lo limit alarm setting, set meter's recording interval and view the stored data.

SETTING MODE

1. Hi limit alarm setting

Under measurement mode, press and hold the button to enter HI limit alarm setting. Default value is 130dB. Use or buttons to adjust the alarm value. Press to confirm and proceed to the next setting.

2. Lo limit alarm setting

Default value is 30dB. Use or buttons to adjust the alarm value. Press to confirm and proceed to the next setting.

3. Set meter's recording interval

Default is 5s, adjustable between 1s, 5s, 10s, 30s, 1min, 30mins, 1h, 12h, and 24h. Use or keys to select the desired recording interval. Press to confirm and proceed to the next setting.

4. View the stored data in the meter

The MEM symbol displays, showing recorded groups at the bottom. Navigate records with or keys. Press to confirm and exit.

NOTE: Under this menu, press and hold the + button simultaneously for 2s to clear up the stored data.

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DISABLE AUTO POWER OFF FUNCTION

The auto power off function is enabled by default, the screen shows the **APO** symbol when the meter is turned on. This feature is activated only after 15 minutes of inactivity. However, when the meter is USB powered, even if the auto power off is enabled, the meter will not shut off automatically.

To disable Automatic Power Off: Before startup the device, press and hold button, then simultaneously press the button until APO OFF icon appears on the screen. **APO** symbol will disappear after disabling the Auto Power Off function.

NOTE: The auto power off function will restore when restart the meter.

DATA LOGGING AND PC INTERFACE

1. Types of data recording

Data logging on the software: Automatically log data onto the software where the number of data points is unlimited.

Data logging on the meter: Automatically log up to 1999 readings onto the meter via push-button press.

2. Data logging on the software

a. Install the software. Please download and install the free EnvironmentalTester software from the QR code or URL below.

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www.cd50.net/m390/

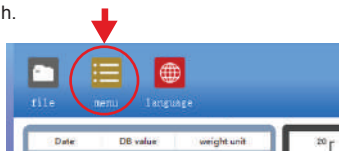
b. Double click EnvironmentalTester to open it. Connect the decibel meter to the computer using the provided USB cable. The software interface should appear as shown below, indicating that it is now ready for use.

NOTE:
When it is ready to use,
it should display "Connected"

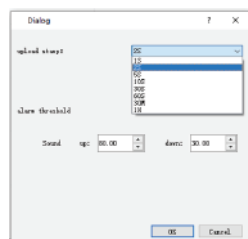


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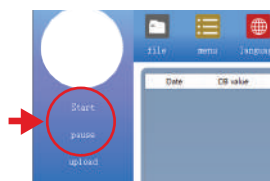
c. Configure parameters. Click menu button located at the top of the software. A dialog window will appear where you can set the sampling rate and alarm threshold. Confirm your selections by clicking OK. Sampling rates available: 1s, 2s, 5s, 10s, 30s, 60s, 30min, and 1h.



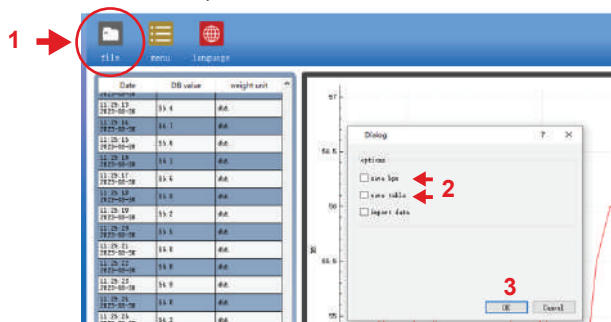
NOTE: The parameters specified here are intended for data logging within the software system and are not configured to automatically synchronize with the meter.



d. Press the Start / pause button located at the left of the software to start / stop real-time recording.



f. To export the data points, please click the "file" button located at the top of the software and then select to save in bpm/table format.



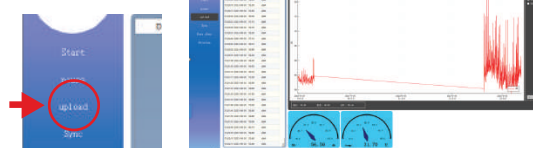
IMPORTANT!!!

To prevent the loss of real-time data points recorded in the software it is necessary to export them before exiting the program or uploading the data points stored in the meter. Failure to do so will result in the deletion of all recorded data points in the software.

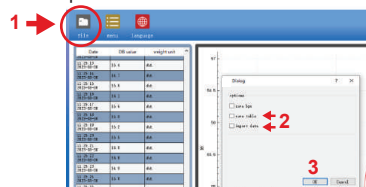
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3. Data logging on the meter

- Set the desired sampling rate (refers to **Setting Mode-Section 3**)
- Long press the button over 2 seconds to start/stop recording. **REC** symbol will be flashing when in recording mode.
- Launch the software and then connect the decibel meter to the computer.
- Click upload and wait few seconds; the data points stored in the meter will be synchronize to the software.

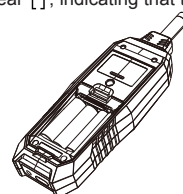


e. To export the data points, click the "file" button located at the top of the software and then select to save in bpm/table format



BATTERY REPLACEMENT

- When the battery level is low, an empty battery icon will appear , indicating that the batteries need to be replaced.
- To replace the batteries, please follow these steps:
 - Remove the battery compartment cover.
 - Replace the old 3 AA batteries with new ones.
 - Pay close attention to the battery polarity when placing the new batteries into the compartment.
- Make sure to fasten the compartment cover securely after replacing.



MAINTENANCE

Avoid prolonged measurements in high-temperature, high-humidity conditions. Remove the battery if the device won't be used for an extended period. If your device malfunctions and requires repair confirmed by the manufacturer or dealer, provide a written description of the failure and a packing list. Package the item securely for protection.

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