

## Mastfuyi FY8862

# Mastfuyi Digital Decibel Meter

## MODEL: FY8862 INSTRUCTION MANUAL

### 1. Introduction

This manual provides detailed instructions for the safe and effective operation of your Mastfuyi Digital Decibel Meter, Model FY8862. Please read this manual thoroughly before using the device and retain it for future reference.

The Mastfuyi FY8862 is a portable, digital sound level meter designed for measuring sound levels in various environments. It features a wide measurement range, high accuracy, and multiple functions including A-weighting, fast/slow response modes, and MAX data hold.

### 2. Safety Information

- Do not attempt to disassemble or modify the device.
- Keep the device away from water, high temperatures, and corrosive substances.
- Ensure batteries are inserted with correct polarity. Remove batteries if the device will not be used for an extended period.
- Avoid dropping the device or subjecting it to strong impacts.

### 3. Package Contents

Verify that all items are present upon opening the package:

- 1 x Mastfuyi Digital Decibel Meter FY8862
- 2 x AAA 1.5V Batteries
- 1 x Instruction Manual



Image 3.1: Mastfuyi Digital Decibel Meter FY8862 and included AAA batteries.

#### 4. Product Overview and Features

The Mastfuyi FY8862 is designed for ease of use and accurate sound measurement. Below are its key components and features:



Image 4.1: Labeled components of the Mastfuyi FY8862 Decibel Meter.

- **Wind-resistant Ball:** Protects the microphone from wind noise and minor impacts.
- **Electret Condenser Microphone:** High-precision microphone for accurate sound capture.
- **Sound Level Alarm:** Visual indicator (green/red LED) for sound levels.
- **LCD Display:** Shows decibel readings, mode, and battery status.
- **Battery Cover:** Secures the AAA batteries.
- **Power Switch:** Turns the device on or off.
- **MAX Locking Key:** Holds the maximum measured value.
- **SLOW/FAST Select Button:** Toggles between fast and slow response modes.
- **Pocket Clip:** For convenient carrying and secure attachment.
- **Non-slip Design:** Ensures a secure grip.

#### 4.1. Electret Condenser Microphone

The device utilizes a precise electret condenser microphone for accurate sound capture, offering high precision, quick response, and anti-interference capabilities.

# Electret Condenser Microphone



**High Precision**



**Quick Response**



**Anti-interference**



Image 4.2: The Electret Condenser Microphone, designed for high precision and quick response.

## **4.2. Compact and Portable Design**

Weighing only 1.76 oz (without battery) and measuring 6.65 inches (169mm) in length, the pen-style design with a pocket clip makes it easy to carry and store securely.

# Compact & Lightweight Clip-on Decibel Meter Portable design, easy to carry



1.76oz/50g (without battery)



Image 4.3: The compact and lightweight design of the decibel meter, suitable for various carrying methods.

## 4.3. A-Weighted Measurement

This noise meter incorporates A-weighting, which simulates the frequency response of the human ear at low sound intensities. This provides a more accurate and professional detection of environmental noise, crucial for assessing potential hearing damage and noise pollution.

# A WEIGHTING

Range: 30~130 dbA  
Accuracy:  $\pm 1.5$  dB  
Frequency: 31.5~8 KHz



The standard for determining hearing damage and noise pollution



Image 4.4: A-weighting feature for accurate environmental noise detection.

## 4.4. Fast and Slow Measurement Modes

The device offers two response rates for diverse measurement needs:

- **FAST Mode:** Samples the signal 8 times per second, ideal for measuring transient noise or instantaneous changes in sound levels.
- **SLOW Mode:** Samples 1 time per second, suitable for continuous noise measurements and indicating the average level of fluctuating noise.



# Real-time Sampling with 2 Reponse Modes



Image 4.5: Illustration of Fast and Slow measurement modes.

## 4.5. MAX Data Hold Function

The MAX lock function continuously records and displays the highest measurement during the sampling period, simplifying data reading and recording.

# MAX Hold

Continuously record the maximum measurements during the sampling time



Image 4.6: The MAX Hold function for capturing peak sound levels.

## 4.6. Sound Level Alarm

A visual alert system is integrated: the sound level indicator illuminates green when the sound level is below 60 dB and red when it exceeds 60 dB.

## 4.7. Common Noise Range Reference

Understand typical decibel levels and their potential impact:



# COMMON NOISE RANGE

Protect your hearing health from noise pollution



Image 4.7: Reference chart for common noise ranges and their effects.

## 4.8. Wide Application

The decibel meter is suitable for monitoring noise levels in various environments, including homes, factories, classrooms, offices, home theaters, audio systems, and automobiles.

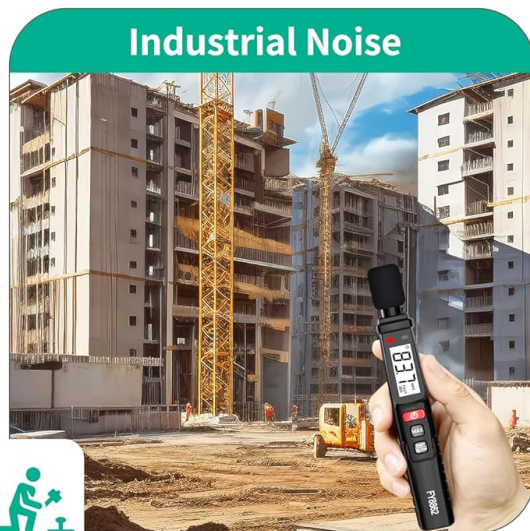


Image 4.8: Examples of the decibel meter's application in various settings.

## 5. Setup

### 5.1. Battery Installation

The Mastfuyi FY8862 requires two AAA 1.5V batteries. To install or replace batteries:

1. Locate the battery cover on the back of the device.
2. Use a small Phillips head screwdriver to unscrew the battery cover.
3. Insert two AAA 1.5V batteries, ensuring correct polarity as indicated inside the compartment.
4. Replace the battery cover and secure it with the screw.

### 5.2. Calibration

The device is factory-calibrated. If recalibration is necessary, follow these steps:

1. Press the **SLOW/FAST** button and the **Power Switch** button simultaneously. Hold the **SLOW/FAST** button.
2. After the device powers on, briefly press the **Power Switch** button. The screen will display "MAX" to indicate entry into calibration mode.
3. Set your standard signal source device to 94dB.

4. Align the decibel meter to the standard signal source device. Wait for the meter reading to stabilize at 94dB.
5. Press the **SLOW/FAST** button to save the calibration.
6. Press the **Power On/Off** button to restart the device. Calibration is now complete.

## 6. Operating Instructions

### 6.1. Power On/Off

Press the red **Power Switch** button to turn the device on or off.

### 6.2. Selecting Measurement Mode (FAST/SLOW)

Press the **FAST/SLOW** button to toggle between Fast and Slow response modes. The selected mode will be indicated on the LCD display.

### 6.3. Using MAX Data Hold

Press the **MAX** button to activate the MAX data hold function. The display will then show the highest decibel reading recorded since the function was activated. Press the **MAX** button again to exit this mode.

### 6.4. Interpreting Sound Level Indicators

The device features LED indicators to provide a quick visual reference for sound levels:

- **Green LED:** Illuminates when the sound level is below 60 dB.
- **Red LED:** Illuminates when the sound level is above 60 dB.

## 7. Specifications

Feature	Specification
Measurement Range	30 dB to 130 dB
Accuracy	±1.5 dB
Frequency Range	31.5 Hz to 8 KHz
Weighting	A-weighting
Response Time	Fast (125ms), Slow (1s)
Power Supply	2 x AAA 1.5V Batteries
Item Model Number	FY8862
Package Dimensions	7.17 x 1.54 x 1.34 inches
Item Weight	3.17 ounces

## 8. Maintenance

- Clean the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Ensure the microphone's wind-resistant ball is free from dust and debris for accurate readings.
- Store the device in a cool, dry place when not in use.

## 9. Troubleshooting

- **Device does not power on:** Check battery installation and ensure batteries are not depleted. Replace if necessary.
- **Inaccurate readings:** Ensure the microphone is clear of obstructions. Perform calibration if readings are consistently off.
- **Display issues:** If the display is dim or flickering, replace the batteries.

## 10. Warranty and Support

Mastfuyi provides a 48-month unconditional warranty and lifetime after-sales service for this product. For any questions or support needs, please contact Mastfuyi customer service. We are available 24/7 online to answer your questions as soon as possible.

## 11. Product Videos


Watch the official product video for a visual guide on the Mastfuyi Digital Decibel Meter.

Your browser does not support the video tag.

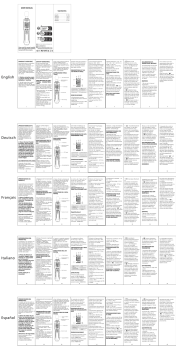



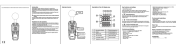
Video 11.1: Official product overview of the Mastfuyi Digital Decibel Meter, demonstrating its features and ease of use.

© 2024 Mastfuyi. All rights reserved.

## Related Documents - FY8862

	<p><a href="#">Mastfuyi FY8862 Sound Level Meter User Manual</a></p> <p>User manual for the Mastfuyi FY8862 portable sound level meter, featuring A-weighted measurement from 30dB to 130dB. This document provides details on the product's components and specifications for noise measurement.</p>
-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



	<p><a href="#">Mastfuyi FY8837 Professional Digital Sound Level Meter User Manual</a></p> <p>Comprehensive user manual for the Mastfuyi FY8837 Professional Digital Sound Level Meter. Learn about its features, specifications, operation, maintenance, and troubleshooting for accurate noise measurement.</p>
	<p><a href="#">Digital Lux Meter Instruction Manual - Mastfuyi LX-1010B</a></p> <p>Comprehensive instruction manual for the Mastfuyi LX-1010B Digital Lux Meter, covering general and technical specifications, operating instructions, and recommended illumination levels for various environments.</p>
	<p><a href="#">User Manual: Spherical Inductive Moisture Meter</a></p> <p>Comprehensive user manual for the MASTFUYI Spherical Inductive Moisture Meter, detailing its features, technical specifications, operation, precautions, and maintenance for accurate moisture measurement in wood and building materials.</p>
	<p><a href="#">Mastfuyi FY886B Moisture Meter User Manual</a></p> <p>User manual for the Mastfuyi FY886B Moisture Meter, providing instructions, safety guidelines, technical specifications, and usage details for measuring moisture content and temperature in wood and building materials.</p>
	<p><a href="#">Mastfuyi FY8812 EMF Meter User Manual: Electromagnetic Radiation Measurement</a></p> <p>Comprehensive user manual for the Mastfuyi FY8812 EMF meter, detailing its features, technical specifications, operation, and safety guidelines for measuring electromagnetic radiation from household appliances.</p>