



# Sound Level Meter

## Instructions

### INTRODUCTION

This mini digital sound level meter is designed to provide a quick and easy environmental sound level check. The meter has a wide dynamic range providing virtually instantaneous decibel readings on its LCD display and can be used to measure the sound level in virtually any environment. Ideal for use in factories, schools, offices, near roads and many other environments where an instant decibel reading may be required.

### FEATURES

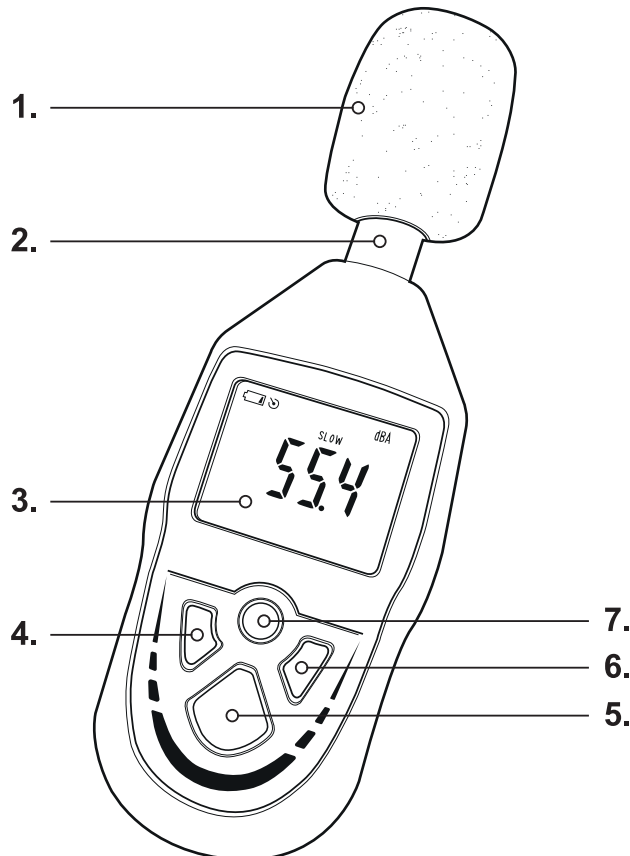
1. Single measurement range: 30 to 130dB.
2. Fast and slow reading mode.
3. Omni-directional condenser microphone
4. Large LCD display screen
5. Max/Min measurement mode with data hold.
6. Overrange and low battery indication with auto power-off.
7. 'A' Frequency weighting.

### IMPORTANT SAFETY INFORMATION

It is essential that you read and understand the instructions contained in this manual before using the sound level meter for the first time. Failure to follow these instructions could result in incorrect reading being taken.

This manual should be stored safely for future reference.

### DIAGRAM



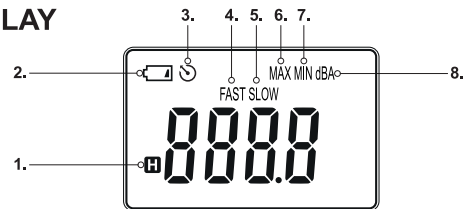
1. **Wind Cap**  
If the wind speed exceeds 10m/sec, please attach the wind cap to decrease the measurement errors caused by wind noises.
2. **Omni-directional Condenser Microphone**
3. **LCD Display**
4. **“HOLD” Button**  
Used to enter / exit Data Hold mode, as well as to turn on / off backlight
5. **“MAX / MIN” Button**  
Used to enter / exit MAX or MIN measurement modes.
6. **“FAST / SLOW” Button**  
Used to switch between FAST mode and SLOW mode
7. **“ON / OFF” Button**  
Used to turn the meter on / off.

**NOTE:** The meter will turn off automatically if you have not pressed any buttons for approximately 3 minutes. You can manually turn off the meter at any time by pressing the “ON / OFF” button.

When the meter is on press and hold down the “ON / OFF” button to turn off the auto power off feature.

Auto power off will reset as the default setting the next time the meter is turned on.

### DISPLAY



1. - Data Hold
2. - Low Battery Indication
3. - Auto Power-off feature is enabled
4. **FAST** - “FAST” mode is selected
5. **SLOW** - “SLOW” mode is selected
6. **MAX** - “MAX” the maximum reading is being displayed
7. **MIN** - “MIN” the minimum reading is being displayed
8. **dBA** - Frequency weighting A unit: dB

### General Specifications

Frequency Weighting:	A
Measurement Range:	30dB - 130dB
Frequency Range:	30Hz - 8KHz
Resolution:	0.1dB
Accuracy:	±1.5dB
Display:	4 Digit LCD with backlight
Time Weighting:	FAST & SLOW modes
Microphone:	Omni-directional Condensor Microphone
Operating Altitude:	<2000m above sea level
Operating Environment:	0 ~ 40°C / 20 ~ 80% RH
Storage Environment:	-10 ~ +50°C / 90% RH
Battery:	3x 1.5V AAA Batteries
Size:	160 x 54.4 x 32mm
Weight:	~110g (including batteries)

**Overrange Indication:**  
**“OL”** appears when the measured value is higher than the upper limit of the measuring range.  
**“Lo”** appears when the measured value is lower than the lower limit of the measuring range.

## OPERATING INSTRUCTIONS

### 1. Turning on the meter

Press the **"on/off"** button once to turn on the meter. The display shows all segments briefly and then the meter enters measurement mode.

### 2. Turning on / off the backlight

You can hold down the **"HOLD"** button for ~2secs to turn on or off the backlight, if necessary.

### 3. Selecting FAST mode or SLOW mode

Press the **"FAST/SLOW"** button once to select fast mode or slow mode. The display will show the corresponding symbol.

### 4. Making measurements

Hold the meter in hand and point its microphone towards the source of the noise / sound to be measured. The correct reading will be displayed.

### 5. Data hold

Briefly press the **"HOLD"** button once to freeze the present reading, the symbol **"H"** will appear on the display as an indicator. Briefly press once again to release the display. The meter will stop recording and detecting new values until you unlock the readings on the display.

### 6. MAX / MIN Measurement modes

- Press the **"MAX/MIN"** button once. The meter enters the MAX measurement mode and the symbol **"MAX"** appears on the display as an indicator. The display shows the maximum reading of all readings taken since this mode is activated.
- Press this button once again. The meter enters the MIN measurement mode and the symbol **"MIN"** appears as an indicator. The display shows the minimum reading of all readings taken since the MIN measurement mode is activated.
- Press this button once more, the meter will exit MIN measurement mode and return to normal operation.

### 7. Turning off the meter

- When the meter is in "ON" state, press and hold the **"ON/OFF"** button to enable or cancel auto power-off feature. The display will show **"O"**, indicating auto power-off feature is enabled.
- The meter will turn off automatically if you have not pressed any button for about 3 minutes. At any time, you can manually turn off the meter by pressing the **"ON/OFF"** button.

## NOTE

- Do not let any liquid enter into the microphone and the case.
- Never use the meter to make measurements on or near live parts
- Do not use this meter where explosive gas, vapor or substance is present, or where there is much dust or steam.
- Do not store the meter in an environment with high temperature or humidity. Do not drop, bump or abuse the meter.
- Remove the batteries if you don't use the meter for a long period of time. It is important to calibrate the meter if it has exceeded one year since last use, to ensure accurate readings can be measured.

## CALIBRATION

- Remove the wind cap from the meter if you are using the wind cap.
- Make sure the meter is in the off state and briefly press the **"ON/OFF"** button while holding down the **"FAST/SLOW"** button and the **"MAX/MIN"** button. After you see a flash of the backlight, release all buttons. The display shows **"CALI"** indicating the meter is in calibration mode.
- Insert the meter's microphone nozzle carefully into the insertion hole of the standard sound source (94dB / 1KHz sine wave), then briefly press the **"HOLD"** button. The display will start flashing and about 2 seconds later the meter will turn off automatically and the calibration will be complete.


### NOTE:

- Our company does not provide the standard sound source (also referred to as calibrator), this will need to be sourced elsewhere.
- Use only a standard sound source which outputs 94dB, 1kHz sine waves.
- The meter has been calibrated before leaving the factory, it is recommended to calibrate the meter at least once a year.

## CLEANING

Use a soft, dry cloth to clean the meter. Do not use abrasive detergent or solvent.

## ELECTRICAL SYMBOLS

 Caution, risk of danger. Refer to the instructions sheet before use.

 Conforms to European Union directives.

## BATTERY REPLACEMENT

When the symbol **"B"** appears on the display, the batteries are low and must be replaced immediately. To replace the batteries, turn off the meter first. Then remove the battery cover and replace the exhausted batteries with new ones of the same type, make sure that the polarity connections are correct. Reinstall the battery cover.

We recommend the use of Lighthouse Alkaline batteries product code: **L/HBATAAA (x3)**

## NOTE

- This manual is subject to change without notice.
- Faithfull tools take no responsibility for any personal injury, loss or damage caused by the inappropriate or misuse of this product.
- The contents of this manual cannot be used as the reason to use the meter for any other special application.

Every Faithfull electrical product is guaranteed for a period of one year, subject to the same exceptions as mentioned above. In the case of electrical products used for hire, the guarantee period is restricted to three months.

## DISPOSAL OF THIS ARTICLE

Dear Customer,


If you at some point intend to dispose of this article, then please keep in mind that many of its components consist of valuable materials, which can be recycled. Please do not dispose of this product in the household waste bin, but check with your local council for recycling facilities in your area.



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