

Mini Sound Level Meter HK850+

User's Manual



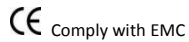
1. Safety

Read the following safety information carefully before attempting to operate or service the meter. Use the meter only as specified in this manual; otherwise, the protection provided by the meter may be impaired.

Environment conditions:

1. RH < 90RH % (Non-condensation)
2. Operating temperature : -20°C-- 60°C / -4°F- 140°F

Safety symbol:



2. Introduction

This unit adopts condenser microphone as the sensor, high configuration MCU calculation, high accuracy, fast response. This Sound Level Meter is designed to meet the measurement requirements of safety Engineers, Health, Industrial safety offices and sound quality control in various environments like factory, school, construction, etc.

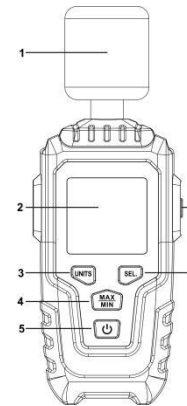
3. Specifications

Applied Standard	IEC61672-1 CLASS2
Level range	35dB~135dB
Accuracy	±2.0dB
Dynamic range	50dB
Frequency range	31.5Hz~8KHz

Frequency weighting	A and C
Temperature range	0°C~ 60°C/32°F ~ 140°F
Temperature accuracy	±1.5°C (±1.8°F)
High/low reading	>100dB, LCD displays "HI" <100dB, LCD displays "LO"
Time weighting	FAST:125ms/ SLOW:1s
Microphone	1/2 inch
Resolution	0.1dB
Data update	300ms
Enable Auto power off	The meter shuts off automatically after 15 minutes inactivity under auto power off mode
Battery	3*1.5V "AAA" batteries
Operating conditions	0°C~ 40°C / 10RH%~80RH%
Storage conditions	-10°C~60°C / 10RH%~70RH%
Dimensions	147*59*30mm
Weight	106g (include batteries)

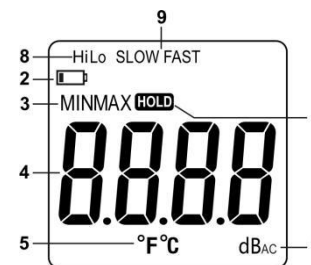
4. Meter description

- 1) Windscreen microphone cover
- 2) LCD display
- 3) Fast/Slow selection button
- 4) MAX/MIN
- 5) Power on/off button
- 6) SEL button
- 7) Hold button



5. LCD display description


- 1) Data hold icon
- 2) Battery indicator
- 3) MIN/MAX Icon
- 4) Value display
- 5) Temperature unit icon
- 7) Frequency weighting icon
- 8) Hi/Lo icon
- 9) Fast/Slow icon



6. Operation instruction

- 1) Press the on-off button to switch on the meter.
- 2) Press "SEL" button to shift dBA or dBC function, briefly press "UNITS" button to select FAST or SLOW function, and aim the microphone to the source of sound, the sound level appears on the LCD display.
- 3) Briefly press the MIN/MAX button to freeze the reading on the display, press again to unfreeze.
- 4) Press "SEL" button to shift temperature function, briefly press "UNITS" button to select "°C" or "°F", and put the meter to the environment of under test, the value of temperature appears on the LCD display.

7. Cleaning and Maintenance

- 1) Wipe the meter regularly with a moist, lint-free cloth. Do not use alcohol or solvents. Do not submerge the meter in any liquid.
 - 2) Store the meter in a dry place away from humidity and vibrations.
 - 3) Remove the battery when the meter is to be stored for long periods of time.
 - 4) When the battery is low, LCD display  A new battery is needed.
 - 5) Wind blowing across the microphone increases the noise measurement. Use the supplied windscreen to cover the microphone when appliance.
 - 6) This meter has already been calibrated before delivery. Do not revise the calibration parameters without professional personnel and device.
- * This meter is well calibrated before delivery, and the recommended recalibration cycle is one year.