

User manual

SL-13A

Sound Level Meter

⚠ Before using the instrument,please read this manual carefully,and save it well for future using.

Introduction

This sound level meter is used to measure the sound level of the environment: such as factory, workshop, school, residence, office area, traffic road, audio and so on. Also suitable for noise engineering, product quality control, health prevention and control, etc. It can also measure ambient temperature and humidity.

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Display screen

symbols	description	symbols	description
	Auto power off		Data hold
MAX	Maximum value	MIN	Minimum value
°C	Celsius	RH%	Humidity unit
°F	Fahrenheit		Low battery
FAST	Quick response	SLOW	Slow response
dB	Decibel unit	A	A weighted
C	C weighted		

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Operation

Considerations

- Wind blowing across the microphone increases the noise measurement. Use the supplied windscreen to cover the microphone when applicable.
- Calibrate the instrument before each use if possible. Especially if the meter has not been used for a long period of time.
- Do not store or operate the instrument in areas of high.
- Keep meter and microphone dry.
- Avoid severe vibration.
- Remove the battery when the meter is to be stored for long periods of

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time.

Measurement

- Open the protection cover of the meter.
- Press the button to turn on the power.
- After the power is turned on, the meter will start to display the sound pressure level reading.
- Hold the meter and let the microphone face the sound source to be measured.
- Read the measured value from the display.
- Press the button to turn off the power.

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Fast/slow time weighted selection

Use the button to select 'FAST' (125 ms) or 'SLOW' (1 sec) time weighting. Depending on the selection, 'FAST' or 'SLOW' appears on the display.

Select the 'FAST' response to capture noise peaks as well as fast-emerging noise. The 'SLOW' response is selected to monitor sound sources with consistent noise sound pressure levels, and also to average out rapidly changing noise. Fast response can be selected for most applications.

Data hold

Press the button to enable the data retention function. Press the button again to turn off the data hold function and return to the normal measurement function.

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Backlight

Press the button and hold it for more than 2 seconds to enable or disable the backlight function.

MAX/MIN function

Press the button to enable the maximum and minimum functions, and then press the button to display the maximum and minimum values. Press and hold for about 2 seconds to return to normal measurement function.

Temperature unit selection

Press the button to shift the temperature unit, °C or °F.

A/C weighted selection(for model B)

Press and hold for about 2 seconds to switch A or C weighted.

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Automatic Power Off

When the instrument is turned on, the symbol is displayed. The automatic shutdown function is turned on by default. If there is no operation within 10 minutes, the meter will automatically shut down.

If you need to cancel the automatic shutdown function, press and hold the button before turning on the instrument, then press the button to turn on the power of the instrument, release the button after turning on the instrument, and cancel the automatic shutdown if the symbol is not displayed.

Restart the instrument after shutdown to restore the automatic shutdown function.

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Specifications

Display screen		LCD display
Sound level measurement	Range	30-130dBA or 30-130dBC(for model B)
	Frequency	30Hz — 8KHz
	Dynamic Range	50 dB
	Accuracy	±1.5dB (94dB@1KHz) ±5dB (94dB@8KHz)
	Frequency weighting	A weighting、C weighting(for model B)
	Time weighting	FAST: 125ms, SLOW: 1sec

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Temperature	Microphone	Electret condenser
	Range	-20.0°C ~ 60.0°C(-4.0°F~140.0°F)
	Accuracy	0.0°C ~ 45.0°C(32°F ~113°F) : ±1.0°C/2.0°F Others: ±1.5°C/3.0°F
Humidity	Range	0.0% ~99.9%RH
	Accuracy	20%~ 80%: ±5.0RH; Others: ±6.0RH
Operating conditions		0~50°C, <80%RH, altitude less than 2000m
Storage conditions		-10~50°C.

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	<80%RH(remove the battery)
Auto power off	10minutes
Power	3 x 1.5VAAA batteries

Maintenance

Battery replacement

When the meter shows the symbol " ", please replace the battery in time.

- Unscrew the battery cover, and then open the battery cover.
- Remove the batteries from the battery compartment.
- Install the new battery correctly according to the positive and negative marks on the bottom of the battery

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- compartment.
- Reinstall the battery cover and fasten the screws to secure it.

Cleaning

⚠ Caution

To avoid damaging the case, do not use corrosive agents or solvents to clean the instrument.

Wipe the shell regularly with detergent or a damp cloth and detergent.

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