HTC INSTRUMENT SL-13A Sound Level Meter User Manual

HTC™
INSTRUMENTS

SL-13A
Sound Level Meter

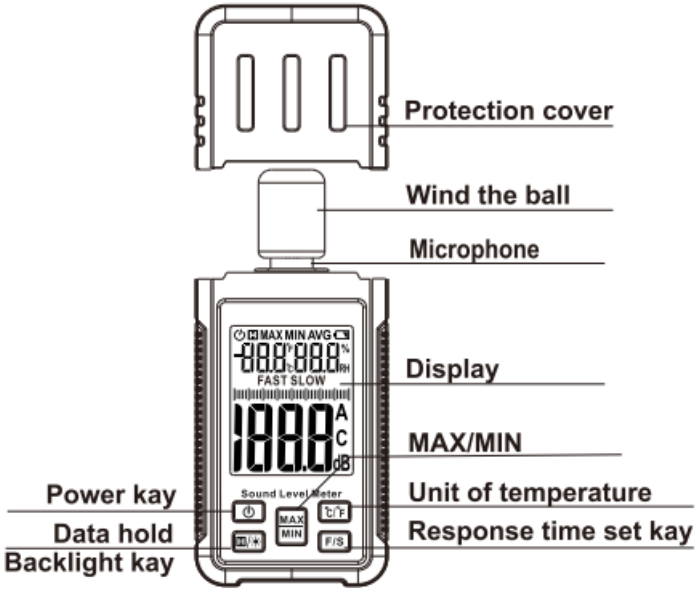
User manual

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

Contents

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.



Display screen

symbols	description	symbols	description
⏻	Auto power off	H	Data hold
MAX	Maximum value	MIN	Minirmum 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		

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 time.

Measurement

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

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

Backlight

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

MAX/MIN function

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

Temperature unit selection

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

A/C weighted selection(for model B)

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

Automatic Power Off

When the instrument is turned on, the ⏻ symbol s displayed. The automatic shutdown function is tumed 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 H/☀ button before turning on the instrument, then press the H/☀ button to turn on the power of the instrument, release the ⏻ button after tuming 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.

Specifications

Display screan		LCD display
Sound level measurement	Range	30-130dBA or 30-130dBC(for model B)
	Frequency	30Hz —8KkHz
	pynamic Range	50dB
	Acouracy	+1.50B (94dB@1KHz) 5dB (94dB@8KHzZ)
	Freauency weighting	Aweighting. C weighting(for model B)
	Time weighting	FAST: 125ms, SLOW: 1sec
	Microphone	Electret condenser
Temperature	Range	20.0°C ~60.0°C(-4.0°F~140.0°F)
	Acouraey	0.0°C ~ 45.0°C(32°F) ~113%F) 1 £1.0°C12.0°F .”Others: 1.5°C/3.0°F
Humidity	Range	0.0% ~99.9%RH
	Acouraey	20%- 80%: £5.0RH; Others: 6.0RH
Operating conditions		0~50°C, <80%RH, altitude less than 2000m
Storage conditions		-10~50°C,
		<B0%RH(remove the batiery)
Auto power off		10minutes
Power		3 x 1.5VAAA batteries

Maintenance

Battery replacement

When the meter shows the symbol “ please replace the battery in ime.

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

Cleaning

Cauton

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

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

EMC&LVD

Documents / Resources

	HTC INSTRUMENT SL-13A Sound Level Meter [pdf] User Manual SL-13A Sound Level Meter, SL-13A, Sound Level Meter, Level Meter, Meter