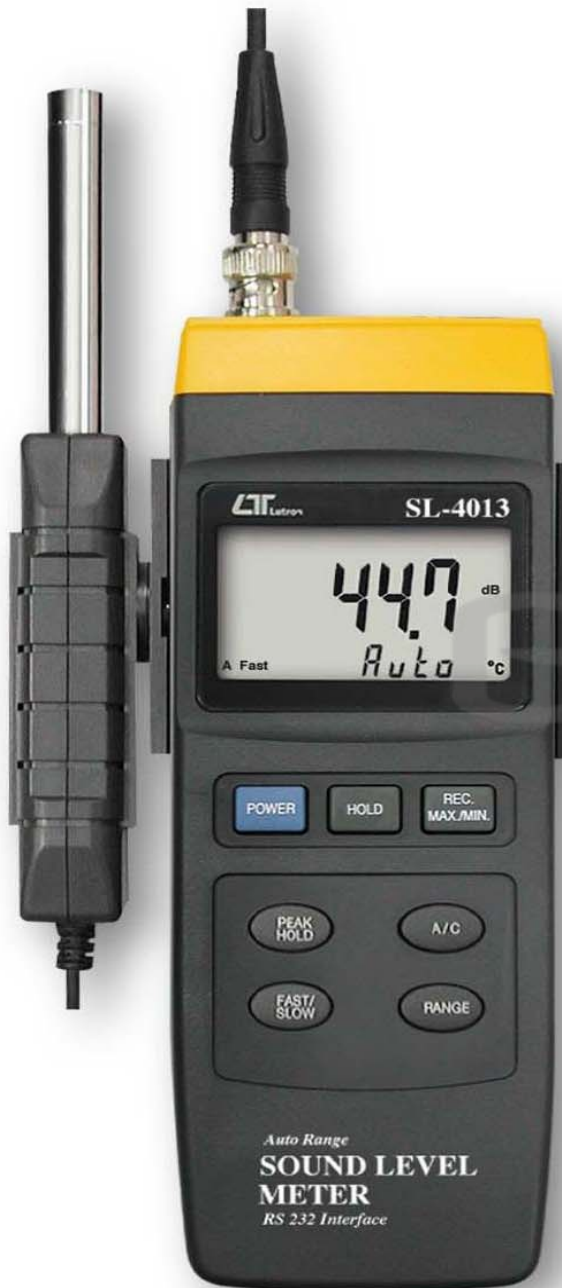


*Auto range, Separate probe, AC output, Memory*

# **SOUND LEVEL METER**

**Model : SL-4013**

**ISO-9001, CE, IEC1010**



## **FEATURES**

- \* Separate sound probe, easy operation.
- \* Large LCD display, easy to read.
- \* Frequency weighting meet IEC 61672 type 2.
- \* Auto range & manual range.
- \* A & C frequency weighting.
- \* Fast & Slow time weighting
- \* AC output for system expansion.
- \* RS232 computer interface.
- \* External calibration VR.
- \* Hold & Memory record.
- \* High accuracy condenser microphone
- \* Peak Hold.
- \* Over and under load indicator.
- \* LCD display.
- \* Durable, strong light weight ABS-plastic housing case.



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**LUTRON ELECTRONIC**

**The Art of Measurement**



## *Auto range, Separate probe, AC output, Memory*

# DIGITAL SOUND LEVEL METER, Model : SL-4013

### FEATURES

* Large LCD display, easy to read.	* Build in adj. VR is available for easy calibration.
* Frequency weighting networks are designed to meet IEC 61672 type 2.	* Hold & Memory record ( max., min. )
* Auto range & manual range.	* Condenser microphone for high accuracy & stability.
* A & C weighting networks are conformity to standards.	* Peak Hold function for stored the maximum value.
* Fast & Slow dynamic characteristic modes.	* Warning indicator for over and under load.
* AC output for system expansion.	* LCD display for low power consumption & clear read-out even in bright ambient light condition.
* RS232 computer interface.	* Used the durable, long-lasting components, including a strong light weight ABS-plastic housing case.
* Separate sound probe, easy for remote sound measurement.	* Compact and light weight plastic housing.

### SPECIFICATIONS

Display	52 mm x 32 mm LCD (Liquid Crystal Display), 5 digits.	
Function	dB (A & C frequency weighting), Time weighting(Fast, Slow), Hold, Memory ( max. & min. ), Peak hold, AC & RS232 output.	
Measurement Range	30 - 130 dB.	
Resolution	0.1 dB.	
Accuracy (23 5 蚬)	Frequency weighting meet IEC 61672 type 2, calibrating input signal on 94 dB(31.5 Hz to 8 kHz), then the accuracy of A weighting is specified as following: 31.5 Hz - $\pm 3$ dB, 63 Hz - $\pm 2$ dB, 125 Hz - $\pm 1.5$ dB 250 Hz - $\pm 1.5$ dB, 500 Hz - $\pm 1.5$ dB, 1 kHz - $\pm 1.5$ dB, 2kHz - $\pm 2$ dB, 4 kHz - $\pm 3$ dB, 8 kHz - $\pm 5$ dB.	
Frequency Weighting Network	Characteristics of A & C.	
	A weighting - The characteristic is simulated as "Human Ear Listing" response. Typical, if making the environmental sound level measurement, always select to A weighting. C weighting - The characteristic is near the "FLAT" response. Typical, it is suitable for checking the noise of machinery (Q.C. check) & knowing the sound pressure level of the tested equipment.	
Frequency	31.5 Hz to 8,000 Hz.	
Calibrator	B & K (Bruel & kjaer), multi-fuction acoustic calibrator, model : 4226.	
Microphone	Electric condenser microphone.	
Size of microphone	1/2 inch standard size.	
Range selector	Auto range : 30 to 130 dB.	
	Manual range : 3 range, 30 to 80 dB, 50 to 100 dB, 80 to 130 dB, 50 dB on each step, with over & under range indicating.	
Time Weighting (Fast & Slow)	Fast - t = 200 ms, Slow - t = 500 ms,	
	* "Fast" range is simulated the human ear response time weighting.	
	* "Slow" range is easy to get the average values of vibration sound level.	
Output Signal	* The "Fast" & "Slow" time weighting range are designed to IEC 61672 type 2 requirement.	
	* AC output - AC 0.5 Vrms corresponding to each range step.	
	Output impedance - 600 ohm.	
Out terminal	* RS232 output.	
	Terminal 1 : RS232 computer interface terminal.	
	Terminal 2 : AC output terminal.	
Calibration VR	* Terminal socket size : 3.5 mm dia. phone socket.	
Operating Temp.	Build in external calibration VR, easy to calibrate on 94 dB level by screw driver.	
Operating Humidity	0 °C to 50 °C ( 32°F to 122°F ).	
Power Supply	Less than 80% RH.	
Power Consumption	006P DC 9V battery ( Alkaline or heavy duty type ).	
Dimension	Approx. DC 6mA.	
	<i>Main instrument</i>	205 x 68 x 29 mm ( 8.07x2.7x1.1 inch ).
	<i>Sound probe</i>	170.5 x 24.5 x 19 mm ( 6.7x1.0x0.7 inch ).
Weight	405 g/0.89 LB ( including probe ).	
Standard Accessories	Instruction manual ..... 1 PC.	
	Separate sound probe..... 1 PC.	
	Probe holder..... 1 PC.	
Optional	Sound Calibrator, model : SC-941 ( 94 dB ). SC-942 ( 94dB, 114 dB ).	
	Carrying case : CA-06	
	RS232 cable, Model : UPCB-02	
	Application software, Model : SW-U801-WIN	

\* Appearance and specifications listed in this brochure are subject to change without notice.

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