

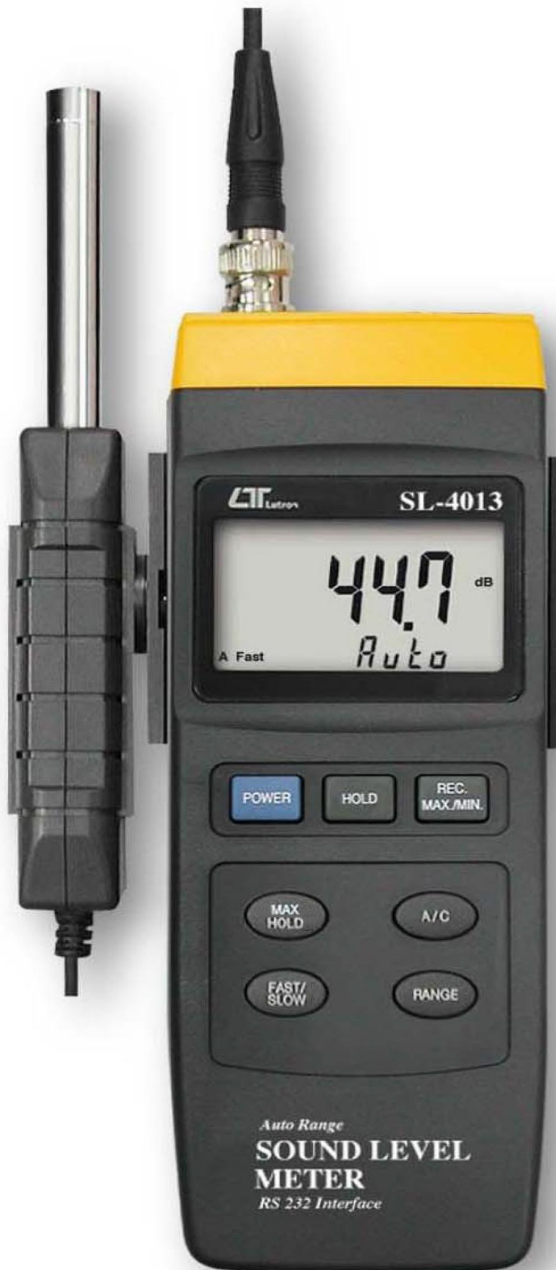
*Auto range, Separate probe, AC output, Memory*

# **SOUND LEVEL METER**

**Model : SL-4013**

***ISO-9001, CE, IEC1010***

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## **FEATURES**

- \* Separate sound probe, easy operation.
- \* Large LCD display, easy to read.  
Frequency weighting meet IEC 61672-1-2013 class 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
- \* Max Hold.
- \* Over and under range indicator.
- \* Durable, strong light weight  
ABS-plastic housing case.



**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 61672-1-2013 class 2.	* Hold & Memory record ( max., min. )
* Auto range & manual range.	* Condenser microphone for high accuracy & stability.
* A & C weighting networks are conformity to standards.	* Max Hold function for stored the maximum value.
* Fast & Slow dynamic characteristic modes.	* Warning indicator for over and under range.
* AC output for system expansion.	* LCD display for low power consumption & clear read-out even in bright ambient light condition.
* RS232/USB 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. ), Max hold, AC & RS232 output.
Measurement Range	30 - 130 dB.
Resolution	0.1 dB.
Accuracy (23 ± 5 °C)	Frequency weighting meet IEC 61672-1-2013 class 2, calibrating input signal on 94 dB (31.5Hz to 8 KHz), then the accuracy of frequency weighting is specified as following: 31.5 Hz - ± 3 dB, 63 Hz - ± 2.0 dB, 125 Hz - ± 1.5 dB 250 Hz - ± 1.5 dB, 500 Hz - ± 1.5 dB, 1 kHz - ± 1.0 dB 2 kHz - ± 2.0 dB, 4 kHz - ± 3.0 dB, 8 kHz - ± 5.0 dB
Frequency Weighting Network	Characteristics of A & C. A weighting - The characteristic is simulated as "Human Ear Listening" 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 = 125 ms, Slow - t = 1 s, * "Fast" range is simulated the human ear response time weighting. "Slow" range is easy to get the average values of vibration sound level. * the "Fast, Slow" time weighting range are designed to IEC61672-1-2013 class 2 requirement.
Output Signal	* AC output - AC 0.5 Vrms corresponding to each range step. Output impedance - 600 ohm. * RS232 output.
Output terminal	Terminal 1 : RS232 computer interface terminal.
	Terminal 2 : AC output terminal. * Terminal socket size : 3.5 mm dia. phone socket.
Calibration VR	Build in external calibration VR, easy to calibrate on 94 dB level by screw driver.
Operating Temp.	0 °C to 50 °C ( 32°F to 122°F ).
Operating Humidity	Less than 80% RH.
Power Supply	006P DC 9V battery ( Alkaline or heavy duty type ).
Power Consumption	Approx. DC 6mA.
Dimension	Main instrument
	207 x 68 x 29 mm ( 8.1x2.7x1.1 inch ).
Weight	Sound probe
	170.5 x 24.5 x 19 mm ( 6.7x1.0x0.7 inch ).
Weight	375 g/0.83 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
	USB cable, Model : USB-01 Application software, Model : SW-U801-WIN

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

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