

DIGITAL SOUND LEVEL METER

Model: SL-4012, SL-4013

ISO-9001, CE, IEC 1010



SL-4012



SL-4013



Features:

- * Auto range & Manual range selection.
- * Separate probe for remoting measurement and prevents environmental noise disturbance (SL-4013 only).
- * Functions meet IEC 651 type 2.
- * A & C frequency weighting comply with standards.
- * Time weighting (Fast & Slow) dynamic characteristic modes.
- * RS232 computer interface.
- * AC output for system expansion.
- * Condenser microphone for high accuracy & long-term stability.
- * LCD display for low power consumption & clear read-out even in bright ambient light condition.

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LUTRON ELECTRONIC

The Art of Measurement

Auto range, RS-232 & AC output, Memory
DIGITAL SOUND LEVEL METER, Model : SL-4012
Separate probe 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 651 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 level measurement.	* Compact and light weight plastic housing.

SPECIFICATIONS

Display Function	52 mm x 32 mm LCD (Liquid Crystal Display), 5 digits.		
Measurement Range	30 – 130 dB.		
Resolution	0.1 dB.		
Accuracy (23 ± 5 °C)	Frequency weighting meet IEC 651 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 – ± 3 dB, 63 Hz – ± 2 dB, 125 Hz – ± 1.5 dB 250 Hz – ± 1.5 dB, 500 Hz – ± 1.5 dB, 1 kHz – ± 1.5 dB 2 kHz – ± 2 dB, 4 kHz – ± 3 dB, 8 kHz – ± 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 w 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. * The "Fast" & "Slow" time weighting range are designed to IEC 651 type 2 requirement.		
Output Signal	* AC output – AC 0.5 Vrms corresponding to each range step. Output impedance – 600 ohm. * RS232 output.		
Out 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	SL-4012	268 x 68 x 29 mm (10.6 x 2.7 x 1.1 inch).	
	SL-4013	Main instrument	205 x 68 x 29 mm (8.07x2.7x1.1 inch).
		Sound probe	170.5 x 24.5 x 19 mm (6.7x1.0x0.7 inch).
		Probe cable length	200 cm (78.7 inch) max.
Weight	SL-4012	295 g/0.65 LB.	
	SL-4013	405 g/0.89 LB (including probe).	
Standard Accessories	Instruction Manual1 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		