

IEC 651, type 1, professional

SOUND LEVEL METER

Model : SL-4022

ISO-9001, CE, IEC1010



LUTRON ELECTRONIC



The Art of Measurement

DIGITAL SOUND LEVEL METER

Model : SL-4022

FEATURES	
* Main function (frequency weighting & time weighting) and specifications are designed to meet IEC 651 type 1	* Max. Hold function for stored the maximum value on display
* Large LCD display, easy to read.	* Warning indicator for over and under load.
* A & C weighting networks are conformity to standards.	* LCD display for low power consumption & clear read-out even in bright ambient light condition.
* FAST & SLOW dynamic characteristic modes.	* Used the durable, long-lasting components, including a strong light weight ABS-plastic housing case.
* AC output for system expansion.	* Compact and heavy duty housing case.
* Build in adj. VR, available for easy calibration.	* Low battery indicator.
* Condenser microphone for high accuracy & long-term stability	
* Build max. hold reset switch.	

SPECIFICATIONS	
Display	1 8mm (0.7") LCD (Liquid Crystal Display), 3 1/2 digits.
Function	dB (A & C frequency weighting), Time weighting (Fast, Slow), Max. hold, Max. hold reset, AC output.
Measurement Range	3 ranges (30 - 70 dB, 60 - 100 dB, 90 - 130 dB),
Resolution	0.1 dB.
Accuracy (23 ± 5 °C)	Time weighting & frequency weighting meet IEC 651 type 1, calibrating input signal on 94 dB (31.5 Hz to 8 kHz), the accuracy of A weighting is specified as following: 31.5 Hz - ± 1.5 dB, 63 Hz - ± 1.5 dB, 125 Hz - ± 1 dB 250 Hz - ± 1 dB, 500 Hz - ± 1 dB, 1 kHz - ± 1 dB 2 kHz - ± 1 dB, 4 kHz - ± 1 dB, 8 kHz - ± 1.5 dB to -3 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 (Brueel & kjaer), multi-fuction acoustic calibrator, model : 4226.
Microphone	Electric condenser microphone.
Size of Microphone	1/2 inch standard size.
Range Selector	30 to 70 dB, 60 to 100 dB, 90 to 130 dB, 40 dB on each step, with over & under range indicating.
Time Weighting Fast & Slow (F & S)	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 0.4 Vrms corresponding to each range step.
Calibration	Build in external calibration VR, easy to calibrate on 94 dB level by screw driver. Internal oscillation system, 1 KHz sine wave generator.
Output Terminal	3.5 mm dia. phone output terminal is provided for connection with analyzer, level recorder, tape recorder.
Operating Temp.	0°C to 50°C (32°F to 122°F).
Operating Humidity	
Power Supply	DC 9V battery x 2 PCs, 006P, MN1604 (PP3) or equivalent, heavy duty or alkaline type.
Power Consumption	Approx. DC 17 mA.
Dimension	260 x 87 x 36 mm (10.2 x 3.4 x 1.4 inch).
Weight (w/ battery)	450 g/0.99 LB
Standard Accessories	Instruction Manual..... 1 PC. Carrying case..... 1 PC.
Optional	94 dB Sound Calibrator, model : SC-940, model : SC-941

SOUND LEVEL METER CALIBRATOR, Model : SC-941, SC-942

SPECIFICATIONS	
Futures	Precision 94 dB/1000 Hz sound calibrator, useful to calibrate Sound Level Meter.
Frequency	1000 Hz ± 2 %.
Sound Pressure Level	SC-941 94 dB ± 0.75 dB. SC-942 94 dB ± 0.75 dB, 114 dB ± 0.9 dB.
Microphone Type	0.5" microphone & 1" microphone.
Size	Round 50 mm dia. x 82 mm.

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

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