

Frequency and time weighting meet IEC 61672, Class 1

SOUND LEVEL METER

Model : SL-4022

ISO-9001, CE, IEC1010



LUTRON ELECTRONIC

The Art of Measurement

DIGITAL SOUND LEVEL METER

Model : SL-4022

FEATURES	
* Frequency weighting and time weighting are meet IEC 61672 Class 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 8 mm (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)	Frequency weighting meet IEC 61672 Class 1, calibrating input signal on 94 dB the accuracy of frequency weighting is specified as following: $31.5 \text{ Hz} : \pm 2.0 \text{ dB}$, $63 \text{ Hz} : \pm 1.5 \text{ dB}$, $125 \text{ Hz} : \pm 1.5 \text{ dB}$, $250 \text{ Hz} : \pm 1.4 \text{ dB}$, $500 \text{ Hz} : \pm 1.4 \text{ dB}$, $1 \text{ KHz} : \pm 1.1 \text{ dB}$, $2 \text{ KHz} : \pm 1.6 \text{ dB}$, $4 \text{ KHz} : \pm 1.6 \text{ dB}$, $8 \text{ KHz} : + 2.1 \text{ dB to } -3.1 \text{ dB}$,
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 16 KHz. * Accuracy is tested within 31.5 Hz to 8 KHz.
Calibrator	B & K (Bruel & kjaer), multi-fuction acoustic calibrator, model : 4226.
Microphone type	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 (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 61672 Class 1 requirement.
Output Signal	AC output - AC 750 mVrms 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	Less than 80% RH.
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	450 g/0.99 LB
Standard Accessories	Instruction Manual..... 1 PC. Calibration screw driver..... 1 PC. Carrying case..... 1 PC.
Optional Accessories	94 dB Sound Calibrator, model : SC-941. 94/114 dB Sound Calibrator, model : SC-942. Wind shield ball, model : SB-01.

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 145 mm.

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

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