Auto range, AC output, Memory

SOUND LEVEL METER

Model : SL-4012   *ISO-9001, CE, IEC1010*

FEATURES

* Large LCD display, easy to read. Frequency weighting meet
* IEC 61672 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
* Peak Hold.
* Over and under load indicator.
* LCD display.
* Durable, strong light weight ABS-plastic housing case.

LUTRON ELECTRONIC

The Art of Measurement

Auto range, AC output, Memory
DIGITAL SOUND LEVEL METER
Model : SL-4012

FEATURES

* Large LCD display, easy to read.	* Hold & Memory record (max., min.)
* Frequency weighting networks are designed to meet IEC 61672 class 2.	* Condenser microphone for high accuracy & stability.
	* Peak Hold function for stored the maximum value.
* Auto range & mamual range.	* 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.	
* AC output for system expansion.	* Used the durable, long-lasting components, including a strong light weight ABS-plastic housing case.
* RS232/USB computer interface.	
* Build in adj. VR is available for easy calibration.	* 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 ℃)*	Frequency weighting meet IEC 61672 class 2, calibrating input signal on 94 dB(31.5 Hz to 8 kHz), then the accuracy of frequency weighting is specified as following: *31.5 Hz - ± 3.5 dB, 63 Hz - ± 2.5 dB, 125 Hz - ± 2.0 dB* *250 Hz - ± 1.9 dB, 500 Hz - ± 1.9 dB, 1 kHz - ± 1.4 dB* *2 kHz - ± 2.6 dB, 4 kHz - ± 3.6 dB, 8 kHz - ± 5.6 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 type	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 61672 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 ℃ to 50 ℃ (32℉ to 122℉).
Operating Humidity	Less than 80% RH.
Power Supply	006P DC 9V battery (Alkaline or heavy duty type).
Power Consumption	Approx. DC 6mA.
Dimension	268 x 68 x 29 mm (10.6 x 2.7 x 1.1 inch).
Weight	295 g/0.65 LB.
Standard Accessories	Instruction Manual ....1 PC.
Optional	Sound Calibrator, model : SC-941 (94 dB). SC-942 (94dB, 114 dB). Carrying case : CA-06 Wind shield ball, SB-01 RS232 cable, Model : UPCB-02 USB cable, Model : USB-01 Application software, Model : SW-U801-WIN