

*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.



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***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.
* Auto range & manual range.	* Peak Hold function for stored the maximum value.
* A & C weighting networks are conformity to standards.	* Warning indicator for over and under load.
* Fast & Slow dynamic characteristic modes.	* LCD display for low power consumption & clear read-out even in bright ambient light condition.
* AC output for system expansion.	* Used the durable, long-lasting components, including a strong light weight ABS-plastic housing case.
* RS232/USB computer interface.	* Compact and light weight plastic housing.
* Build in adj. VR is available for easy calibration.	

## 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 °C)	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: <i>31.5 Hz - ± 3.5 dB, 63 Hz - ± 2.5 dB, 125 Hz - ± 2.0 dB</i> <i>250 Hz - ± 1.9 dB, 500 Hz - ± 1.9 dB, 1 kHz - ± 1.4 dB</i> <i>2 kHz - ± 2.6 dB, 4 kHz - ± 3.6 dB, 8 kHz - ± 5.6 dB</i>
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. * <i>Terminal socket size : 3.5 mm dia. phone socket.</i>
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	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 RS232 cable, Model : UPGB-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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