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# DIGITAL SOUND LEVEL METER

Model : SL-4001

FEATURES	
* Large LCD display, easy to read.	* Max. Hold function for stored the maximum value on display.
* Frequency weighting networks are designed to meet the IEC 651 type 2.	* 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.
* Time weighting(FAST & SLOW) dynamic characteristic modes.	* Used the durable, long-lasting components, including a strong, light weight ABS-plastic housing case.
* AC/DC output for system expansion.	* Small and light weight design allow one hand operation.
* Build in adj. VR is available for easy calibration.	* Low battery indicator.
* Condenser microphone for high accuracy & long-term stability.	

SPECIFICATIONS	
Display	18mm (0.7") LCD (Liquid Crystal Display), 3 1/2 digits.
Function	dB (A & C frequency weighting), Time weighting(Fast, Slow), Max. hold, AC & DC output.
Measurement Range	3 ranges, 35 to 130 dB( typical 30 to 130 dB), input signal only.
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 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 & k multi-fuction acoustic calibrator, model : 4226.
Microphone	Electric condenser microphone.
Size of microphone	1/2 inch standard size.
Range selector	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.
Calibration	* Build in external calibration VR, easy to calibrate by external screw driver. * Internal oscillation system, 1 KHz sine wave generator.
Output Signal	AC output - AC 0.5 Vrms corresponding to each range step. DC output - DC 0.3 to 1.3 VDC, 10 mV per dB. Out put impedance - 600 ohm.
Out terminal	3.5 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	Max. 90% RH(0to 35°C).
Power Supply	006P DC 9V battery(heavy duty type).
Power Consumption	Approx. DC 6mA.
Dimension	205 x 80 x 35 mm ( 8.1 x 3.2 x 1.4 inch).
Weight	280 g/0.62 LB (including battery).
Standard Accessories	Instruction Manual ..... 1 PC. Calibration screw driver.....1 PC.
Optional	94 dB Sound Calibrator, model : SC-940.

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