

IEC 61672 class 2

SOUND LEVEL METER

Model : SL-4001

ISO-9001, CE, IEC1010



LUTRON ELECTRONIC



The Art of Measurement

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 61672 CLASS 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, 30 to 130 dB, input signal only. |
| 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-fection acoustic calibrator, model : 4226. |
| Microphone type | 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. |
| Output terminal | 3.5 mm 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 | 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 Accessories | 94 dB Sound Calibrator, Model : SC-941. |
| | 94 dB/114 dB Sound Calibrator, Model : SC-942. |
| | Hard carrying case, Model : CA-06. |

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