

Auto range, Separate probe, AC output, Memory

SOUND LEVEL METER

Model : SL-4013

ISO-9001, CE, IEC1010



FEATURES

- * Separate sound probe, easy operation.
- * 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, Separate probe, AC output, Memory

DIGITAL SOUND LEVEL METER, Model : SL-4013

| FEATURES | |
|--|--|
| * Large LCD display, easy to read. | * Build in adj. VR is available for easy calibration. |
| * Frequency weighting networks are designed to meet IEC 61672 class 2. | * Hold & Memory record (max., min.) |
| * Auto range & manual range. | * Condenser microphone for high accuracy & stability. |
| * A & C weighting networks are conformity to standards. | * Peak Hold function for stored the maximum value. |
| * Fast & Slow dynamic characteristic modes. | * Warning indicator for over and under load. |
| * AC output for system expansion. | * LCD display for low power consumption & clear read-out even in bright ambient light condition. |
| * RS232/USB computer interface. | * Used the durable, long-lasting components, including a strong light weight ABS-plastic housing case. |
| * Separate sound probe, easy for remote sound measurement. | * 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 °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: 31.5 Hz - ± 3 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 | 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 °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 | <i>Main instrument</i> 205 x 68 x 29 mm (8.07x2.7x1.1 inch). <i>Sound probe</i> 170.5 x 24.5 x 19 mm (6.7x1.0x0.7 inch). |
| Weight | 405 g/0.89 LB (including probe). |
| Standard Accessories | Instruction manual 1 PC. Separate sound probe..... 1 PC. Probe holder..... 1 PC. |
| Optional | Sound Calibrator, model : SC-941 (94 dB). SC-942 (94dB, 114 dB). Carrying case : CA-06 RS232 cable, Model : UPCB-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.