

# SOUND LEVEL METER

*Digital display, Wide range, A & C weighting, High accuracy  
AC output, DC output, Professional, Better Performance*

dB(A weighting)

dB(C weighting)

Max. hold

Time weighting (F/S)

AC output

DC output

18mm LCD

0.5" microphone



**MODEL: SL-4001**



**MODEL: SL-4011**



**Sound Calibrator  
Model: SC-940  
Optional**



# DIGITAL SOUND LEVEL METER, MODEL : SL-4001, SL-4011

## FEATURES

|   |   |
|---|---|
| * Large LCD display, easy to read.                                  | * Max. Hold function for stored the maximum value on display.   |
| * Frequency weighting networks are designed to meet 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.        |
| * 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, available for easy calibration.                 | * Low battery indicator.  |
| * Condenser microphone for high accuracy & long-term stability.     |   |

## SPECIFICATIONS

|  |  |                                       |
|--|--|---------------------------------------|
| Display                                  | 1.8mm (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<br>(23 ± 5 °C)                  | Frequency weighting meet IEC 651 type 2, calibrating input signal on 94 dB (31.5 Hz to 8 kHz), the accuracy of A weighting is specified as following:<br>31.5 Hz - ± 3 dB, 63 Hz - ± 2 dB, 125 Hz - ± 1.5 dB<br>250 Hz - ± 1.5 dB, 500 Hz - ± 1.5 dB, 1 kHz - ± 1.5 dB<br>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.<br>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                           | 30 to 80 dB, 50 to 100 dB, 80 to 130 dB, 50 dB on each step, with over & under range indicating.   |                                       |
| Time Weighting<br>Fast & Slow<br>(F & S) | Fast - t = 200 ms, Slow - t = 500 ms,<br>* "Fast" range is simulated the human ear response time weighting.<br>"Slow" range is easy to get the average values of vibration sound level.<br>* The "Fast" & "Slow" time weighting range are designed to IEC 651 type 2 requirement.  |                                       |
| Output Signal                            | AC output - AC 0.5 Vrms corresponding to each range step.<br>DC output - DC 0.3 to 1.3 V, 10 mV per dB.<br>Out put impedance - 600 ohm.  |                                       |
| Calibration                              | Build in external calibration VR, easy to calibrate on 94 dB level by screw driver.<br>Internal oscillation system, 1 KHz sine wave generator ( SL-4001 only ).  |                                       |
| Output Terminal                          | 3.5 mm dia. 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 (0° to 35°C).  |                                       |
| Power Supply                             | 006P DC 9V battery (heavy duty type).  |                                       |
| Power Consumption                        | Approx. DC 6 mA.   |                                       |
| Dimension                                | SL-4001 : 245 x 80 x 35 mm   | SL-4011 : 255 x 80 x 30 mm            |
| Weight (w/ battery)                      | SL-4001 : 296 g/0.65 LB  | SL-4011 : 275 g/0.61 LB               |
| Standard Accessories                     | Instruction Manual.....1 PC.<br>Carrying case (SL-4011 only).....1 PC  | Screw Driver (SL-4001 only).....1 PC. |
| Optional                                 | 94 dB Sound Calibrator, model : SC-940.  |                                       |

## SOUND LEVEL METER CALIBRATOR, MODEL : SC-940

|                      |  |
|----------------------|--|
| Futures              | Precision 94 dB/1000 Hz sound calibrator, useful to calibrate Sound Level Meter.   |
| Frequency            | 1000 Hz ± 5 %.   |
| Sound Pressure Level | 94 dB. ± 0.8 dB.   |
| Microphone Type      | 1 " microphone & 0.5 " microphone.   |
| Accessories Included | Manual, 0.5" microphone adapter, Battery, Calibration screw driver, Carrying case. |

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