

*Frequency and time weighting meet IEC 61672, Class 1*

# SOUND LEVEL METER

**Model : SL-4022**

**ISO-9001, CE, IEC1010**



**LUTRON ELECTRONIC**



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***The Art of Measurement***

# DIGITAL SOUND LEVEL METER

Model : SL-4022

| FEATURES   |   |
|--|---|
| * Frequency weighting and time weighting are meet IEC 61672 Class 1. | * Max. Hold function for stored the maximum value on display.   |
| * Large LCD display, easy to read.                                   | * 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 output for system expansion.                                    | * Compact and heavy duty housing case.  |
| * Build in adj. VR, available for easy calibration.                  | * Low battery indicator.  |
| * Condenser microphone for high accuracy & long-term stability.      |   |
| * Build max. hold reset switch.                                      |   |

| SPECIFICATIONS              |   |
|-----------------------------|---|
| Display                     | 1 8 mm (0.7") LCD (Liquid Crystal Display), 3 1/2 digits.   |
| Function                    | dB (A & C frequency weighting), Time weighting (Fast, Slow), Max. hold, Max. hold reset, AC output.   |
| Measurement Range           | 3 ranges ( 30 - 70 dB, 60 - 100 dB, 90 - 130 dB ),  |
| Resolution                  | 0.1 dB.   |
| Accuracy (23 ± 5 °C)        | Frequency weighting meet IEC 61672 Class 1, calibrating input signal on 94 dB the accuracy of frequency weighting is specified as following:<br>31.5 Hz : ± 2.0 dB, 63 Hz : ± 1.5 dB, 125 Hz : ± 1.5 dB,<br>250 Hz : ± 1.4 dB, 500 Hz : ± 1.4 dB, 1 KHz : ± 1.1 dB,<br>2 KHz : ± 1.6 dB, 4 KHz : ± 1.6 dB, 8 KHz : ± 2.1 dB to -3.1 dB,   |
| Frequency Weighting Network | Characteristics of A & C.<br>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 16 KHz. * Accuracy is tested within 31.5 Hz to 8 KHz.  |
| 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              | 30 to 70 dB, 60 to 100 dB, 90 to 130 dB, 40 dB on each step, with over & under range indicating.  |
| Time Weighting (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 61672 Class 1 requirement.  |
| Output Signal               | AC output - AC 750 mVrms corresponding to each range step.  |
| 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.  |
| 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          | Less than 80% RH.   |
| Power Supply                | DC 9V battery x 2 PCs, 006P, MN1604 ( PP3 ) or equivalent, heavy duty or alkaline type.   |
| Power Consumption           | Approx. DC 17 mA.   |
| Dimension                   | 260 x 87 x 36 mm ( 10.2 x 3.4 x 1.4 inch ).   |
| Weight                      | 450 g/0.99 LB   |
| Standard Accessories        | Instruction Manual..... 1 PC.<br>Calibration screw driver..... 1 PC.<br>Carrying case..... 1 PC.  |
| Optional Accessories        | 94 dB Sound Calibrator, model : SC-941.<br>94/114 dB Sound Calibrator, model : SC-942.<br>Wind shield ball, model : SB-01.  |

## SOUND LEVEL METER CALIBRATOR, Model : SC-941, SC-942

| SPECIFICATIONS       |  |
|----------------------|--|
| Futures              | Precision 94 dB/1000 Hz sound calibrator, useful to calibrate Sound Level Meter. |
| Frequency            | 1000 Hz ± 2 %.   |
| Sound Pressure Level | SC-941 94 dB : ± 0.75 dB.<br>SC-942 94 dB : ± 0.75 dB, 114 dB : ± 0.9 dB.        |
| Microphone Type      | 0.5" microphone & 1" microphone.   |
| Size                 | Round 50 mm dia. x 145 mm.   |

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

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