

**auto range +Type K Temp.
optional Humidity, Light, Anemometer. IR Temp.**

SOUND LEVEL METER

Model : SL-4112

ISO-9001, CE, IEC1010



FEATURES

- * 30-130 dB, auto range, manual range.
- * Frequency and time weighting, IEC 651 type 2.
- * A or C frequency weighting.
- * Fast/Slow time weighting, peak hold.
- * Data hold, Record (max., min.).
- * AC output, RS232 computer interface.
- * Data logger.
- * Type K Thermometer : -100 to 1300 °C, °C/°F.
- * Type J Thermometer : -100 to 1200 °C, °C/°F.
- * Optional probe (EM-900P) for Humidity/TEMP., Light and Anemometer measurement.
- * DC 1.5V battery (UM-4, AAA) x 6 or DC 9V adapter in.



EM-900P probe
(optional)



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SOUND LEVEL METER

Model : SL-4112

FEATURES

* Large LCD display, easy to read.
* Frequency and Time weighting meet IEC 61672 type 2.
* A, C frequency weighting networks is selected.
* Time weighting (Fast & Slow) dynamic characteristic modes.
* 0.5" standard microphone head.
* AC output for system expansion.
* RS232 computer interface.
* Auto range & Manual range selection.
* Available for external calibration adjustment.
* Condenser microphone for high accuracy & long-term stability.
* Memory function to store the Max. & Min. value.
* Hold and MAX. Hold functions.
* Build in type K and type J thermometer.
* Optional probe (EM-900P) for Humidity/Temp., Light and Anemometer measurement.
* DC 1.5 V battery (UM-4, AAA) X 6 or DC 9V adapter in.
* Operation key used push button.
* LCD display for low power consumption & clear read-out even in bright ambient light condition.
* Using the durable, long-lasting components, including a strong, light weight ABS-plastic housing case.
* Small and light weight design allow one hand operation.
* Patent.

2-1 Electrical specification for Sound level meter

Function	dB (A & C frequency weighting), Time weighting (Fast, Slow), Hold, Memory (Max. & Min.), Peak hold, AC output, RS232 output.
Meter default function	Range set to auto range. Frequency weighting set to A weighting. Time weighting set to fast.
Measurement Range	30 - 130 dB.
Resolution	0.1 dB.
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.
Frequency	31.5 to 8,000 Hz.
Microphone type	Electric condenser microphone.
Microphone size	Out size, 12.7 mm DIA. (0.5 inch).
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 (O.C. check) & knowing the sound pressure level of the tested equipment.
Range selector	Manual range: 3 ranges (30 to 80 dB, 50 to 100 dB, 80 to 130 dB). Auto range: 30 - 130 dB.
Time weighting (Fast & Slow)	Fast - t = 200 ms, Slow - t = 500 ms, * "Fast" range is simulated the human ear response time. * "Slow" range is easy to get the avg. values of vibration sound level. * The "Fast" & "Slow" response range are designed to meet IEC 61672 type 2 requirement.
Calibrator	B & K (Bruel & kjaer), MULTIFUNCTION ACOUSTIC CALIBRATOR 4226.
Output Signal	* AC output : AC 0.5 Vrms corresponding to each range step. Out put impedance - 600 ohm. * RS232 output.
Output terminal	Terminal 1 : RS232 computer interface terminal, photo couple isolated. 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.

2-2 Electrical specification for Type K/J thermometer

Sensor Type	Resolution	Range	Accuracy
Type K	0.1 °C	-50.0 to 1300.0 °C	± (0.4 % + 0.8 °C)
		-50.1 to -199.9 °C	± (0.4 % + 1 °C)
	0.1 °F	-58.0 to 2372.0 °F	± (0.4 % + 1.5 °F)
Type J	0.1 °C	-50.0 to 1100.0 °C	± (0.4 % + 0.8 °C)
		-50.1 to -199.9 °C	± (0.4 % + 1 °C)
	0.1 °F	-58.0 to 2012.0 °F	± (0.4 % + 1.5 °F)
		-58.1 to -327.8 °F	± (0.4 % + 1.8 °F)

* Accuracy value is specified for the meter only.
* Temp. probe (Type K, TP-01 TP-02A, TP-03, TP-04) is the optional accessories.

GENERAL SPECIFICATION

Display	51 mm x 37 mm LCD (Liquid crystal display), 5 digits with annunciator.
Operating Temp.	0 to 50 °C (32 to 122 °F).
Operating Humidity	Less than 80% RH.
Power Supply	DC 1.5 V battery (UM4, AAA) x 6 PCs, or equivalent.
Power Consumption	Approx. DC 12 mA.
Dimension	245 x 68 x 41 mm (9.6 x 2.7 x 1.6 inch).
Weight	406 g/0.89 LB (including battery).
Accessory Included	Instruction Manual 1 PC.
Optional Accessories	94 dB Sound Calibrator : Model : SC-941, SC-942. Sound wind shield ball Model : SB-01 RS232 cable (isolated RS232 cable) : Model : UPCB-02. USB cable Model : USB-01 Application windows software : Model : SW-U801-WIN. Type K Temperature probe : Model : TP-01 TP-02A, TP-03, TP-04

ELECTRICAL SPECIFICATIONS FOR OPTIONAL PROBE EP-900P

Anemometer

A. Air velocity

Measurement	Range	Resolution	Accuracy
m/S	0.4 - 25.0 m/s	0.1 m/s	± (2% + 0.2 m/s)
km/h	1.4 - 90.0 km/h	0.1 km/h	± (2% + 0.8 km/h)
mph	0.9 - 55.9 mile/h	0.1 mile/h	± (2% + 0.4 mile/h)
knot	0.8 - 48.6 knots	0.1 knots	± (2% + 0.4 knots)
FPM	80 - 4930 ft/min	1 ft/min	± (2%+40 ft/min.)

Note:
m/S - meters per second km/h - kilometers per hour
FPM - feet/per minute knot - nautical miles per hour
mph - miles per hour (international knot)

B. Temperature

Measuring Range	0 °C to 50 °C/32 °F to 122 °F
Resolution	0.1 °C/0.1 °F
Accuracy	± 0.8 °C/1.5 °F

Humidity/Temp. meter

A. Humidity

Measuring Range	0 % to 95 % R.H.
Resolution	0.1 % R.H.
Accuracy	≥ 70%RH ± (3% reading + 1% RH). < 70%RH ± 3% RH.

B. Temperature

Measuring Range	0 °C to 50 °C/32 °F to 122 °F
Resolution	0.1 °C/0.1 °F
Accuracy	± 0.8 °C/1.5 °F

Light meter

Measuring Range	LUX	0 to 20,000 LUX.
	Ft-cd	0 to 1,860 Ft-cd
Resolution	LUX	1 LUX
	Ft-cd	0.1 Ft-cd
Accuracy	± (5% rdg ± 8 dgt)	

Note: Ft-cd : Feet candle