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

SOUND LEVEL METER

Model: SL-4112 *ISO-9001, CE, IEC1010*



EM-900P probe (optional)







The Art of Measurement

SOUND LEVEL METER

Model : SL-4112

FEATURES
* Large LCD display, easy to read.
* Frequency and Time weighting meet IEC 61672 class 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/USB 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 Peak Hold functions.
* Build in type K and type J thermometer.
* Optional probe (EM-900P) for Humidity/Temp.,
Light and Anemometer measurement.
* Data logger with 1,600 no. memory, sampling time
can select to 1, 2, 5, 10, 30, 60, 600, 1800 or 3600
seconds.
* 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.

Floatrical specific	ation for Sound level meter		
Function			
runction	dB (A & C frequency weighting), Time weighting (Fast, Slow), Hold, Memory		
	(Max. & Min.), Peak hold, AC output,		
Markan ala 6a de	RS232 output.		
Meter default	Range set to auto range.		
function	Frequency weighting set to A weighting.		
	Time weighting set to fast.		
Measurement	30 - 130 dB.		
Range			
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	Characteristics of A & C.		
network	* 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.		
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 - t= 200 ms, Slow - t = 500 ms,		
(Fast & Slow)	* "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		
	class 2 requirement.		
Calibrator	B & K (Bruel & kjaer), MULTIFUCTION		
	ACOUSTIC CALIBRATOR 4226.		
Output Signal	* AC output :		
Output Signal	AC 0.5 Vrms corresponding to each		
	range step.		
	9 .		
	Out put impedance - 600 ohm.		
	* RS232 output.		

Electrical specification for Type K/J thermometer			
Sensor Reso-		Range	Accuracy
Туре	lution		
Type K	0.1 ℃	-50.0 to 1300.0 ℃	± (0.4 % + 0.8 °C)
		-50.1 to -199.9 ℃	± (0.4 % + 1 °C)
	0 1 °₽	50 0 to 2272 0 °E	+ (0.4% + 15°E)

Type J

0.1 °F

-58.0 to 2372.0 °F

-58.1 to -327.8 °F

± (0.4 % + 1.5 °F)

-58.1 to -327.8 °F

± (0.4 % + 1.8 °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 % + 1.5 °F)

0.1 °F

-58.0 to 2012.0 °F

± (0.4 % + 1.5 °F)

* Accuracy value is specified for the meter only. \pm (0.4 % + 1.8 °F)

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	Approx. DC 19 mA.	
Consumption		
Dimension	245 x 68 x 41 mm	
	(9.6 x 2.7 x 1.6 inch).	
Weight	358 g/0.79 LB (including battery).	
Accessory Included	Instruction Manual 1 PC.	
Optional	94 dB Sound Calibrator :	
Accessories	Model: SC-941. SC-942.	
	Sound wind shield ball	
	Model: SB-01	
	USB cable	
	Model: USB-01	
	RS232 cable (isolated RS232 cable) :	
	Model: UPCB-02.	
	* Data Acquisition software	
	Model: SW-U801-WIN.	
	* Data logger transfer software	
	Model : SW-DL2005.	
	Type K Temperature probe :	
	Model: TP-01 TP-02A, TP-03. TP-04	

ELECTRICAL SPECIFICATIONS FOR OPTIONAL PROBE EM-900P

Anemometer

A. Air velocity

Measure-	Range	Resolu-	Accuracy
ment		tion	
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 - kil	ometers per hour
FPM - feet per minute		knot - nau	ıtical miles per hour

B. Temperature

mph - miles per hour

b. remperature		
Measuring Range	0 °C to 50 °C/32 °F to 122 °F	
Resolution	0.1 ℃/0.1 °F	
Accuracy	± 0.8 °C /1.5 °E	

(international knot)

Humidity/Temp. meter

A. Humidity

A. Humiaity			
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 ℃/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		

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

RS232 computer interface terminal, photo couple isolated.

Build in external calibration VR, easy to calibrate on 94 dB level by screw driver.

Terminal 1 :

Terminal 2 :
AC output terminal.
Terminal socket size :
3.5 mm dia. phone socket

Output terminal

Calibration VR

^{*} Temp. probe (Type K, TP-01 TP-02A, TP-03. TP-04) is the optional accessories.