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

SOUND LEVEL METER

Model : SL-4112







The Art of Measurement

Auto range + Type K Temp. *Optional probe for Humidity, Light, Humidity USB/RS232 computer interface*

SOUND LEVEL METER

Model : SL-4112

F	Ε	A	тι	JI	R	ES	;

TEATORES	
* 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.	

	ation 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	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,
Range selector	50 to 100 dB, 80 to 130 dB).
	Auto range: 30 - 130 dB.
Time weighting	Fast - $t = 200 \text{ ms}$, Slow - $t = 500 \text{ ms}$,
(Fast & Slow)	* "Fast" range is simulated the
(Tust & Slow)	human ear response time.
	* "Slow" range is easy to get the avg.
	values of vibration sound level.
	* The "Fact" & "Slow" response
	* The "Fast" & "Slow" response
	range are designed to meet IEC 61672
Calibrator	range are designed to meet IEC 61672 class 2 requirement.
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Calibrator Output Signal Output terminal	range are designed to meet IEC 61672 class 2 requirement. B & K (Bruel & kjaer), MULTIFUCTION ACOUSTIC CALIBRATOR 4226. * AC output : AC 0.5 Vrms corresponding to each range step. Out put impedance - 600 ohm. * RS232 output. Terminal 1 : RS232 computer interface terminal, photo couple isolated. Terminal 2 :
Output Signal	range are designed to meet IEC 61672 class 2 requirement. B & K (Bruel & kjaer), MULTIFUCTION ACOUSTIC CALIBRATOR 4226. * <i>AC output :</i> AC 0.5 Vrms corresponding to each range step. Out put impedance - 600 ohm. * <i>RS232 output.</i> <i>Terminal 1 :</i> RS232 computer interface terminal, photo couple isolated.
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Sensor	Reso-	Range	Accuracy	
Туре	lution	-	-	
Туре К	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)	
		-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 °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)	
* Accurac	y value is :	specified for the meter	er only.	
* Temp. J	orobe (Typ	e K, TP-01 TP-02A,	TP-03. TP-04) is the	
	l accessorie		· ·	
GENERA	L SPECI	FICATION		
Display			LCD (Liquid crystal	
			display), 5 digits with annunciator.	
Data logge	r		Data logger with 1,600 no. memory,	
			sampling time can select to 1, 2, 5,	
			10, 30, 60, 600, 1800 or 3600	
		seconds.		
Operating Temp.			0 to 50 °C (32 to 122 °F).	
Operating			Less than 80% RH.	
Power Sup			DC 1.5 V battery (UM4, AAA) x 6 PCs,	
		or equivalent.		
Power		Approx. DC 19 m	A.	
Consumpti	on			
Dimension		245 x 68 x 41 mm	n	
		(9.6 x 2.7 x 1.6 i	(9.6 x 2.7 x 1.6 inch).	
Weight			358 g/0.79 LB (including battery).	
Accessory	Included		al 1 PC.	
Optional		94 dB Sound Cali		
Accessorie	s		Model : SC-941. SC-942.	
	-	Sound wind shiel		
		Model : SB-01		
		USB cable		
		Model : USB-0	1	
			lated RS232 cable) :	
		Model : UPCB-		
		* Data Acquisitio		
		Madal CM/ UC		

Model : SW-U801-WIN.
 Data logger transfer software
Model : SW-DL2005.
Type K Temperature probe :
Model : TP-01 TP-02A, TP-03. TP-04
Humidity, Light, Temp., Anemometer probe
Model : EM-900P
Hard carrying case :
Model : CA-06

ELECTRICAL SPECIFICATIONS FOR OPTIONAL PROBE EM-900P

Anemometer	Ì

Α	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 - m	eters per second	km/h - kil	ometers per hour
FPM - fe	et per minute	knot - nau	utical miles per hour
mph - m	iles per hour	(i	nternational knot)

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

Humidity/Temp. meter

Accuracy

Ft-cd : Feet candle

Measuring Range	0 % to	95 % R.H.
Resolution	0.1 %	R.H.
Accuracy	≥70%	RH ± (3% reading + 1% RH)
-	< 70%	RH ± 3% RH.
. Temperature		
Measuring Range	0 ℃ to	50 ℃/32 °F to 122 °F
Resolution	0.1 ℃/	/0.1 °F
Accuracy	± 0.8	°C/1.5 °F
y		
ight meter		
ight meter	•	
-ight meter Measuring Range	LUX	0 to 20,000 LUX.
	LUX Ft-cd	0 to 20,000 LUX. 0 to 1,860 Ft-cd
5 5	Ft-cd	0 to 1,860 Ft-cd

± (5% rdg + 8 dgt)

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

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