

SOUND LEVEL METER



Features:

- Check sound levels quickly and economically
- Built-in 1/2" electric condenser microphone
- Measurements from 54 to 126 dB in 7 ranges
- Manual ranging
- Analog scale with needle indicator
- Selectable fast/slow response
- Selectable A/C weighting
- Easy calibration adjustment
- Max Hold button to lock peak values
- Low battery checker
- Analog output for connection to recorders, data loggers, etc.
- Threaded insert for tripod mount

Specifications:

Measuring Range: 54 to 126 dB (manual)
 Accuracy: ± 3 dB @ 94 dB
 Switch Settings: 60 dB (54-66 dB); 70 dB (64-76 dB);
 80 dB (74-86 dB); 90 dB (84-86 dB);
 100 dB (94-106 dB); 110dB (104-116dB);
 120 dB (114-126 dB)
 Power Supply: 1 x 9V alkaline battery
 Battery Life: 120 hours typical
 Dimensions: 68 x 180 x 36mm (2.7 x 7 x 1.4")
 Weight: 160g

Model	Description	Price
8926	Sound Level Meter	\$89.00

SOUND LEVEL METER

Meets ANSI standard S1.4-1983 for type S2A sound level meters



Features:

- Direct reading analog decibel scale, 40 to 120 dB
- Easy to use and easy to read
- One button operation
- Taut band meter movement
- Built-in filter simulates response of the human ear
- "A" frequency weighting attenuates lower frequency noise levels
- Pocket size portability
- Inexpensive... yet rugged construction
- Includes battery

Specifications:

Measuring Range: 40 to 120 dB (A)
 Accuracy: ± 2 dB
 Damping: Slow response
 Microphone: Capacitative type
 Power Supply: 2.7 V (Mallory PX14) mercury battery
 Battery Life: 100 hours minimum
 Battery Check: LED indicator in meter window
 Dimensions: 5.75" x 1.90" x 1.14" (LxWxD)
 Weight: 3.5 oz.

Model	Description	Price
SL-120	Sound Level Meter	\$308.00
1200C	Deluxe Carrying Case	\$84.00
CA-03	Vinyl Carrying Case	\$18.00

SOUND LEVEL METER



Features:

- Dual range measurement (Hi/Lo)
- "A & C" frequency weighting
- Large, easy-to-read LCD display
- Electret condenser microphone for high accuracy and longterm stability
- Internal 94 dB calibration
- RS232 computer interface
- Data Hold, Max Hold functions and low battery indication
- Meets IEC651 Type 2 requirements
- Includes carrying case and battery

Specifications:

Measuring Range:	Low: 35 to 100 dB; High: 65 to 135 dB (A & C)
Resolution:	0.1 dB
Accuracy:	±1.5 dB
Frequency:	31.5 Hz to 8 kHz
Time Weighting:	Fast/Slow (A & C)
Microphone:	1/2" electret condenser
Power Supply:	1 x 9V battery
Dimensions:	210 x 55 x 32 mm
Weight:	230 g

Model	Description	Price
ST-805	Sound Level Meter	\$195.00

SOUND LEVEL METER



Features:

- Dual range measurement (Hi/Lo)
- "A & C" frequency weighting
- Large, easy-to-read LCD display
- Electret condenser microphone for high accuracy and longterm stability
- Internal 94 dB calibration
- RS232 computer interface
- AC/DC output signal for use with dataloggers
- Data Hold, Max Hold functions and low battery indication
- Meets IEC651 Type 2 requirements
- Includes carrying case, windshield ball and battery

Specifications:

Measuring Range:	30 to 130 dB (A & C)
Resolution:	0.1 dB
Accuracy:	±2 dB
Frequency:	31.5 Hz to 8 kHz
Time Weighting:	Fast/Slow (A & C)
Microphone:	1/2" electret condenser
Output:	AC/DC output
Power Supply:	1 x 9V battery
Dimensions:	251 x 64 x 40 mm
Weight:	250 g

Model	Description	Price
ST-8850	Sound Level Meter	\$295.00

SOUND LEVEL METERS

Model SL-4010



Model SL-4022



Features Model SL-4022:

- Meets IEC 651 Type 1 specifications
- Three ranges, 30 to 130 dB
- Max, Hold and Data Hold functions
- A/C frequency weighting
- Fast/Slow time weighting
- AC output
- Internal 94 dB calibration

Features Model SL-4010:

- Meets IEC 651 Type 2 specifications
- Three ranges, 35 to 130 dB
- Data Hold function
- "A" frequency weighting
- Fast time weighting

Model	Description	Price
SL-4022	Type 1 Sound Level Meter	\$577.00
SL-4010	Type 2 Sound Level Meter	\$234.00

SOUND LEVEL METER

Weighting

The system whereby a sound level meter differentiates decibel levels from among three frequency groups - high, middle and low.

A Weighting

Weighting that attenuates lower frequencies to approximate the response of the human ear

B Weighting

Gives combined decibel readings of high-frequency and mid frequency noise levels. Use in conjunction with A weighting to isolate the sounds that are causing a problem.

C Weighting

Reads all frequencies the same but gives a better response to higher frequencies than do A or B weightings. Use to pinpoint problems when A or B weighted scale readings are very high.



Features:

- Designed to meet IEC 651 Type 1, DIN 45633, JIS 1502
- 1/2" electric condenser microphone
- Large, easy-to-read LCD readout
- Meter response changing switch
- Function control makes A and C weighted measurements
- MAX HOLD function to store peak values
- 50 dB steps with over/under range indications
- Internal oscillation system
- Calibration potentiometer
- Output socket provided for connection to recorders, analyzers, etc.

Specifications:

Measuring Range:	30 to 130 dB(A); 35 to 130 dB(C)
Resolution:	0.1 dB
Accuracy:	±0.7 dB after calibration @ 94 dB/1000 Hz
Frequency Range:	31.5 to 8000 Hz
Response Time:	Fast: 0.2 sec. for max. Slow: 1.5 sec. for max.
Calibration:	Internal oscillation, 1kHz square wave generator
Output:	0.5 VAC rms f.s., 0.3-1.3 VDC, 10mV/dB
Impedance:	600 ohms
Display:	3-1/2 digit 18mm LCD
Power Supply:	1 x 9V 006P battery
Environmental:	0 to 50°C ; Max. 90% R.H.
Dimensions:	205 x 80 x 35 mm; 12.7 mm dia. microphone
Weight:	280 g

Model	Description	Price
K7010	Sound Level Meter	\$495.00

SOUND LEVEL METER

Features:

- Auto or manual ranging (3 ranges)
- "A & C" frequency weighting
- Large, easy-to-read LCD display
- Electret condenser microphone for high accuracy and longterm stability
- Internal 94 dB calibration
- RS232 computer interface
- AC output signal for use with dataloggers
- Data Hold, Max Hold, Max/Min functions and low battery indication
- Meets IEC651 Type 2 requirements
- Includes battery

Features Model SB-01:

- Wind shield ball for sound level microphones
- Available for models *SL-4001*, *SL-4010*, *SL-4011* & *SL-4022*

Features Model SC-941:

- Generates a stable acoustic signal at a controlled frequency and amplitude to verify the accuracy of your sound level meter
- Generates a constant sound pressure level of 94 dB at a fixed frequency of 1,000 Hz

Features Model SW-U801-WIN:

- Windows 95, 98, Me and XP compatible software
- Data logging system and data recorder

Specifications:

Measuring Range:	30 to 130 dB (A & C)
Resolution:	0.1 dB
Accuracy:	±1.5 dB
Frequency:	31.5 Hz to 8 kHz
Time Weighting:	Fast/Slow (A & C)
Power Supply:	1 x 9V battery
Dimensions:	268 x 68 x 29 mm
Weight:	285 g



Model	Description	Price
SL-4012	Sound Level Meter	\$495.00
SL-4012K	Sound Level Meter w/ Computer Interface	\$595.00
SB-01	Wind Shield Ball	\$7.00
SC-941	Sound Calibrator	\$391.00
SW-U801-WIN	Data Acquisition Software	\$97.00
UPCB-02	RS232 Cable	\$30.00

SOUND LEVEL METER



Features:

- 32-80, 50-100, 80-130 dB level ranges
- Auto-ranging from 30 to 130 dB
- Dynamic range of 50 dB
- 0.1 dB resolution
- Frequency Range: 31.5 Hz to 8 kHz
- Accuracy of ±1.5 dB (ref 94 dB @ 1 kHz)
- 32,000 record data logger
- 4-digit backlit display
- Clock and bar graph displays
- Auto power off
- AC and DC output
- Max/Min function
- IEC651 Type II
- Includes battery, manual, carrying case, calibration screwdriver, windscreen, RS232 cable, and Windows datalogging software

Model	Description	Price
C-322	Datalogging Sound Level Meter	\$495.00

SOUND LEVEL METERS

Quest Basic Series Sound Level Meters provide you with extremely simple-to-use tools for obtaining the most commonly required noise measurements. The Basic Series delivers the kind of red, rugged and reliable performance that has become the hallmark of Quest Technologies. Many of the features & benefits of these meters are common to all the models and include:

Features:

- Ease of Use
Operator controls allow for fast and simple operations
- Large Liquid Crystal Display (LCD)
Makes viewing reading easy even under the extremes of direct sun light or in low light areas
- Simple One-Button Field Calibration
Apply the calibrator and press a simple push-button to automatically re-calibrate in the field
- On-Screen Overload Annunciator
Aids in preventing false assumptions from incomplete measurement data
- Integral AC and DC Signal Outputs
Allows for enhanced documentation and presentation of readings using chart recorders or other recording devices
- Resistance to Magnetic & Electrostatic Fields
Superior circuit and packaging design result in meters that are highly resistant to interferences and false readings caused by EMI or RFI fields such as those produced by two-way RF communications devices
- Integral Tripod Mount
Readily attaches to commercially available tripods facilitating unattended long duration sampling
- Attractive Size and Weight
Meter housings measure no more than 2.8" x 9.2" x 1.3" (7.1 x 23.4 x 3.3 cm) and weigh less than 11 ounces (306 g) making them lightweight and convenient to carry
- Convenient Power Source
One (1) commercial-off-the-shelf 9-volt alkaline battery (NEDA 1604A) is all that is required to power these meters and ensures that you will have ready access to a fresh supply wherever and whenever required. Slide-in design eliminates the potential for battery connection failures.

Models 1110 & 2100

The Quest **Models 1100** and **2100** Sound Level Meters provide you a choice of Precision Type 1 (**1100**) and General Purpose Type 2 (**2100**) accuracy, a broader measurement range and optional detachable microphones. Specify the model 1100R or 2100R to receive the detachable microphone version allowing measurements up to 50 ft. (15 m) away with optional extension cables.

Features:

- 30 to 140 dBA measurement range
- Fast and Slow response modes
- "A" and "C" Weighting Modes
- Displays SPL & Maximum SPL
- Low battery indicator
- Simple one-button field calibration
- Optional detachable microphone
- Optional 2, 10 & 50 ft (0.6, 3 & 15 m) microphone extension cables
- Touch, RFI-shielded construction
- AC/DC output jack for recorders
- Certified intrinsically safe

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Applications:

- Occupational Noise Measurements
- Noise Ordinance Enforcement
- Community Noise Assessment
- Environmental Impact Studies
- Toy Safety Testing
- Noise Control Device Evaluations
- Machine Performance Analysis
- Product Testing
- Research & Development
- Quality Control
- Maintenance Inspections & Trouble-Shooting



Model 210

The Quest **Model 210** Sound Level Meter offers the most basic sound measurements - Sound Pressure Level (SPL) & maximum SPL - in Type 2 accuracies at an incredible value. It is the perfect choice for occupational and community noise audits and inspections.

The large liquid crystal display (LCD) provides readings in 0.1 dB increments. The convenient slide switches make the meter extremely easy-to-operate, even while wearing gloves.

Features:

- 40 to 130 dBA measurement range
- Fast and Slow response Modes
- Displays SPL & Maximum SPL
- Low battery indicator
- Simple one-button field calibration
- Tough, RFI-shielded construction
- AC/DC output jack for recorders
- Certified intrinsically safe

SOUND LEVEL METERS

Models 1200 & 2200

The Quest **Models 1200 & 2200** offer a superior noise measurement and analysis at a competitive price. The **1200** provides Type 1 accuracy while the **2200** offers Type 2 accuracy. With five operating modes, the **1200** and **2200** provide the most flexible monitoring options among our Basic Series Sound Level Meters. Specify the **Model 1200R** or **2200R** to receive the detachable microphone version allowing measurements up to 50 feet (15 m) away with optional extension cables.

Features:

- 30 to 140 dBA measurement range
- Fast, Slow, Peak and Impulse response modes
- "A", "C" and "Z" (linear) weighting modes
- Selectable 3 and 5 dB exchange rates
- Displays SPL, Leq, Run Time, Maximum SPL, Minimum SPL & % Overload
- Low battery indicator
- Simple one-button field calibration
- Optional detachable microphone
- Optional 2, 10 & 50 ft (0.6, 3 & 15 m) microphone extension cable
- Tough, RFI-shielded construction
- AC/DC output jack for recorders
- Certified Intrinsically safe



Model	210	2100/A	2200	1100	1200
Measurement Range	40 to 130 dBA	30 to 140 dBA 40 to 140 dBC	30 to 140 dBA 40 to 140 dBC 43 to 143 dBPk	30 to 140 dBA 40 to 140 dBC	30 to 140 dBA 40 to 140 dBC 43 to 143 dBPk
Microphone Size Type	0.52"/13.5 mm Electret	0.52"/13.5 mm Electret	0.52"/13.5mm Electret	0.52"/13.5 mm Electret	0.52"/13.5 mm Electret
Preamp Detachable Max. Cable Length	N/A	N/A	Optional 50 ft (15 m)	Optional 50 ft (15 m)	Optional 50 ft (15 m)
Internal Filters	A	A,C	A, C, Z	A, C	A, C, Z
Response Time Constants	F, S	F, S	F, S, I, P	F, S	F, S, I, P
Exchange Rates	N/A	N/A	3,5	N/A	3,5
Outputs	AC/DC	AC/DC	AC/DC	AC/DC	AC/DC
Temperature Range Operating Storage	32°F to 122°F 0°C to 50°C -4°F to 140°F -20°C to 60°C	-4°F to 140°F -20°C to 60°C 14°F to 122°F -10°C to 50°C	14°F to 122°F -10°C to 50°C -4°F to 140°F -20°C to 60°C	-4°F to 140°F -20°C to 60°C 14°F to 122°F -10°C to 50°C	14°F to 122°F -10°C to 50°C -4°F to 140°F -20°C to 60°C
Batteries Battery Life Dimensions Weight	9V Alkaline 25 to 30 hrs 2.8 x 7.6 x 1.3" 7 x 18 x 3.3 cm 8.4 oz/238 g	9V Alkaline 25 to 30 hrs 2.8 x 7.0 x 1.3" 7 x 19 x 3.3 cm 10.3 oz/293 g	9V Alkaline 25 hrs 2.8 x 7.0 x 1.3" 7 x 18 x 3.3 cm 10.3 oz/293 g	9V Alkaline 25 to 30 hrs 2.8 x 9.2 x 1.3" 7 x 23 x 3.3 cm 10.8 oz/306 g	9V Alkaline 25 hrs 2.8 x 9.2 x 1.3" 7 x 23 x 3.3 cm 10.8 oz/306 g
Standards & Certifications	Type 2 ANSI S1.4 -1983 (R1997) IEC60651 - 1979 EN60651, CE Mark, ETL, CSA, EEx. Pending: MSHA 2G & SABS	Type 2 ANSI S1.4 -1983 (R1997) IEC60651 - 1979 EN60651, CE Mark, ETL, CSA, EEx Pending: MSHA 2G & SABS	Type 2 ANSI S1.4 -1983 (R1997) IEC60651 - 1979 EN60651, CE Mark, ETL, CSA, EEx Pending: MSHA 2G & SABS	Type 1 ANSI S1.4 -1983 (R1997) IEC60651 - 1979 EN60651, CE Mark, ETL, CSA, EEx Pending: MSHA 2G & SABS	Type 1 ANSI S1.4 -1983 (R1997) IEC60651 - 197 EN60651, CE Mark, ETL, CSA, EEx Pending: MSHA 2G & SABS
Price	\$664.00	\$1047.00	\$1744.00	\$1744.00	\$3496.00

SOUND LEVEL METERS

Features:

- Direct readout of SPL, peak level, impulse level, and Lmax
- Modular design allows addition of 1/1 and combination 1/3-1/1 Octave Band Filter Sets, both of which feature manual and automatic sequencing
- Optional accessory makes vibration measurement and analysis possible
- Multiple meter response settings: slow, fast, impulse and peak in SPL and MAX mode. Peak measurements may be 'A', 'B', 'C' or linear weighting
- 3-1/2 digit LCD complemented by a quasi-analog bar graph for easy viewing of exposure data
- Removable microphone for remote measurements
- AC and DC outputs for recording
- Overload indicator



Specifications:

Measuring Range: 35 to 140 dBA; 20 to 140 dB w/ external filters
 Standards: Meets or exceeds ANSI S1.4-1983, Type 2 and IEC 651-1979, Type 2
 Freq. Response: 4 Hz to 50 kHz
 Microphone: Removable 0.5" electret microphone
 AC Output: 3.16 Vrms at full scale (60dB). (3.8Vrms max.)
 Output impedance is 3.2 kΩ
 DC Output: 0 to 1.00 VDC; 60 dB span. Each 0.167V change equals 10dB
 Detector: True RMS; 63 dB pulse range
 Operating Temp: -10 to +50°C
 Power Supply: Two 9-volt alkaline batteries
 Battery Life: 16 hours of continuous operation
 Dimensions: 3.3 x 8.2 x 1.8" (84 x 208 x 47 mm)
 Weight: 24 oz. (680 g)

Model	Description	Price
2700	Impulse Sound Level Meter	\$1574.00
2700-10	Meter w/ Calibrator & Case	\$2314.00
OB-50	Octave Band Filter Set (31Hz-8kHz)	\$1293.00
OB-100	Octave Band Filter Set (31.5Hz-16kHz)	\$1472.00
OB-300	Octave Band Filter Set (12.5Hz-20kHz)	\$3028.00
VA-508C	Vibration Assembly	\$1667.00
QC-10	Sound Level Calibrator	\$740.00

SOUND LEVEL METERS

Features:

- Modular design allows choice of 1/1 or combination 1/3-1/1 filter sets or optional accessory permitting vibration measurements
- Multiple response settings: slow, fast, impulse and peak. Peak measurements may be 'A', 'B', 'C' or linear weighted.
- Direct readout of SPL, Leq, SEL, peak, impulse, Lmax, Lmin levels and run time
- Type 1 accuracy for precision noise measurement
- Easy-to-read LCD together with quasi-analog display
- AC and DC outputs for recording
- RS-232 outputs for data loggers, computers and printers
- Overload indicator



Specifications:

Measuring Range: 30 to 140 dB(A); 0 to 140 dB w/ filter sets
 Microphone: Removable 0.5" electret microphone standard
 Pre-amp: Removable, input impedance > 1GΩ in parallel w/ 2pF, pre-amp will drive up to 100' of cable
 Polarization: Regulated 200 VDC (±2%) when using ordinary condenser microphones, switched off when using pre-polarized (electret) microphones
 AC Output: 3.16Vrms @ full scale (60dB) (3.8Vrms max)
 Output impedance is 3.2 kΩ
 DC Output: 0 to 1.00 VDC; 60 dB span. Each 0.167V change equals 10dB
 Print Output: Serial output using RS-232 voltage levels
 Detector: True RMS; 63 dB pulse range
 Operating Temp: -10 to +50°C
 Power Supply: Two 9-volt alkaline batteries
 Battery Life: 16 hours of continuous operation
 Dimensions: 3.3 x 8.2 x 1.8" (84 x 208 x 47 mm)
 Weight: 24 oz. (680 g)

Model	Description	Price
1800	Type 1 Integrating Sound Level Meter	\$4899.00
1800-20	Sound Level Meter w/ Calibrator	\$6014.00
OB-100	Octave Band Filter Set (31.5Hz-16kHz)	\$1472.00
OB-300	Octave Band Filter Set (12.5Hz-20kHz)	\$3028.00
VA-508C	Vibration Assembly	\$1667.00