



## **BASIC SOUND LEVEL METERS**

### **Typical Applications:**

- Occupational Noise Measurements
- Noise Ordinance Enforcement
- Community Noise Assessment
- Fire & Emergency Notification Alarm Testing
- Maintenance Inspections & Trouble-Shooting
- Environmental Impact Studies

### **The Issue:**

Not all basic sound level meters are created equal. For certain applications basic summary noise data, such as SPL, Lmin, Lmax, Leq/Lavg or Peak, may be all that is required. While many companies offer basic sound level meters, many of those meters do not conform to established independent standards for performance or intrinsic safety. Without conformance to these standards, your data may have no legal relevance and the meter may be unsafe for use in the environments to be measured.

### **The Solution:**

Quest Technologies' Basic Series Sound Level Meters provide you with extremely easy-to-use tools for obtaining the most commonly required noise measurements, such as SPL, Lmin, Lmax, Leq/Lavg, and Peak. With Quest, you get these features and conformance to independent sound level meter performance and intrinsic safety standards. The Basic Series delivers the kind of red, rugged and reliable performance that has become the hallmark of Quest Technologies.

### **Key Features of Quest Technologies Basic Sound Level Meters:**

- Easy to Use
- Large Liquid Crystal Display
- Simple One-Button Field Calibration
- On-Screen Overload Annunciator
- Integral AC and DC Signal Outputs (Excludes SoundPatrol meter)
- CE marked for EMI & RFI Emissions and Susceptibility
- Class/Type 1 or Class/Type 2 Accuracy
- Intrinsic Safety Approvals
- Integral Tripod Mount
- Attractive Weight and Size
- Convenient 9V Alkaline Power Source



# QUICK REFERENCE FEATURES CHART

| SPECIFICATION                      | BASIC SERIES METERS |      |      |      |      | SOUNDPATROL |      |
|------------------------------------|---------------------|------|------|------|------|-------------|------|
|                                    | 210                 | 1100 | 2100 | 1200 | 2200 | 1200        | 2200 |
| <b>Accuracy:</b>                   |                     |      |      |      |      |             |      |
| Precision Class/Type 1             |                     | •    |      | •    |      | •           |      |
| General Purpose Class/Type 2       | •                   |      | •    |      | •    |             | •    |
| <b>Range Without Filters:</b>      |                     |      |      |      |      |             |      |
| 40 to 130 dBA                      | •                   |      |      |      |      |             |      |
| 30 to 140 dBA                      |                     | •    | •    | •    | •    | •           | •    |
| 40 to 140 dBC                      |                     | •    | •    | •    | •    | •           | •    |
| <b>Measurement Data:</b>           |                     |      |      |      |      |             |      |
| Sound Pressure Level (SPL)         | •                   | •    | •    | •    | •    | •           | •    |
| Maximum SPL (Lmax)                 | •                   | •    | •    | •    | •    | •           | •    |
| Minimum SPL (Lmin)                 |                     |      |      | •    | •    | •           | •    |
| Peak SPL (Lpk)                     |                     |      |      | •    | •    | •           | •    |
| Integrated SPL (Leq/Lavg)          |                     |      |      | •    | •    | •           | •    |
| Elapsed Time                       |                     |      |      | •    | •    | •           | •    |
| <b>User-Selectable Parameters:</b> |                     |      |      |      |      |             |      |
| Frequency Weighting:               |                     |      |      |      |      |             |      |
| A                                  | •                   | •    | •    | •    | •    | •           | •    |
| C                                  |                     | •    | •    | •    | •    | •           | •    |
| Linear ("Z")                       |                     |      |      | •    | •    | •           | •    |
| Response Factors:                  |                     |      |      |      |      |             |      |
| Fast & Slow                        | •                   | •    | •    | •    | •    | •           | •    |
| Impulse & Peak                     |                     |      |      | •    | •    | •           | •    |
| Exchange Rates:                    |                     |      |      |      |      |             |      |
| 3 dB                               |                     |      |      | •    | •    | •           | •    |
| 5 dB                               |                     |      |      | •    | •    | •           | •    |
| <b>Data Output Formats:</b>        |                     |      |      |      |      |             |      |
| Liquid Crystal Display             | •                   | •    | •    | •    | •    | •           | •    |
| AC/DC                              | •                   | •    | •    | •    | •    |             |      |
| RS-232 Serial Printer              |                     |      |      |      |      | •           | •    |
| <b>Options:</b>                    |                     |      |      |      |      |             |      |
| Remote Microphone                  |                     | •    | •    | •    | •    |             |      |



## 210 SOUND LEVEL METER

The Quest Model 210 Sound Level Meter offers the most basic sound measurements – Sound Pressure Level (SPL) & maximum SPL - in General Purpose Class/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.

### Key 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



## 1100 & 2100 SOUND LEVEL METERS

The Quest Models 1100 and 2100 Sound Level Meters provide you a choice of Precision Class/Type 1 (1100) and General Purpose Class/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.

### Key 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
- Tough, RFI-shielded construction
- AC/DC output jack for recorders
- Certified intrinsically safe



## 1200 & 2200 IMPULSE INTEGRATING SLM'S

The Quest Models 1200 & 2200 offer superior noise measurement and analysis at a competitive price. The 1200 provides Precision Class/Type 1 accuracy while the 2200 offers General Purpose Class/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 1100R or 2100R to receive the detachable microphone version allowing measurements up to 50 feet (15 m) away with optional extension cables.

### Key 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 cables
- Tough, RFI-shielded construction
- AC/DC output jack for recorders
- Certified intrinsically safe





# SOUND LEVEL CALIBRATORS

The Quest model QC-10 and QC-20 calibrators provide quick, precise field calibration. The calibrator generates a stable acoustic signal at a controlled frequency and amplitude to verify the accuracy of your meter in the field. The model QC-10 is a general purpose calibrator that generates a constant sound pressure level of 114 dB at a fixed frequency of 1,000 Hz. The model QC-20 is recommended for use with precision ANSI and IEC Type/Class 1 meters. User-selectable 94 or 114 dB and 250 or 1,000 Hz frequencies generate four different outputs. The QC-20 has a standard one-inch coupler opening that may be reduced by inserting available plug-in adapters. The model QC-20 also provides a precise 1-volt RMS output signal via a 1/8 inch phone jack. Calibrators comply with IEC 942: 1988, Class 1 and ANSI S1.40-1984.



# SOUNDPATROL DP SERIES

Quest Technologies has created the SoundPatrol DP 1200 Precision Class/Type 1 and SoundPatrol DP 2200 General Purpose Class/Type 2, integrating sound level meters with digital printing capabilities especially for noise ordinance enforcement applications. Both meters are rugged, high-quality devices meeting all the applicable accuracy and performance requirements for sound level meters as defined by ANSI S1.4 and S1.43, IEC 61672, 60651 and 60804.

Users will quickly learn to confidently perform a pre-test field calibration, take a valid noise sample, perform a post-test calibration check and generate complete printed results using the system's convenient belt-worn portable printer.



## Ordering Information

| PART NUMBER | DESCRIPTION  |
|-------------|--|
| 1100        | Model 1100 Sound Level Meter - Includes meter, WS-7 windscreen, 56-990 calibrator adapter and 59-533 storage case.   |
| 1100-20     | Model 1100 Sound Level Meter Kit - 1100 SLM with accessories, QC-20 Calibrator and 59-533 storage case.  |
| 1100R       | Model 1100R Sound Level Meter with Detachable Microphone - Includes meter, WS-7 windscreen, 56-990 calibrator adapter, and 59-533 storage case.  |
| 1100R-20    | Model 1100R Sound Level Meter Kit - 1100R Remote SLM with accessories, QC-20 Calibrator, and 59-533 storage case.  |
| 1200        | Model 1200 Integrating Sound Level Meter - Includes meter, WS-7 windscreen, 56-990 calibrator adapter, and 59-533 storage case.  |
| 1200-20     | Model 1200 Sound Level Meter Kit - 1200 SLM with accessories, QC-20 Calibrator and 59-533 storage case.  |
| 1200R       | Model 1200R Integrating Sound Level Meter with Detachable Microphone - Remote Integrating Sound Level Meter - Includes meter, WS-7 windscreen, 56-990 calibrator adapter, and 59-533 storage case. |
| 1200R-20    | Model 1200R Sound Level Meter Kit - 1200R Remote SLM with accessories, QC-20 Calibrator and 59-533 storage case.   |

## Ordering Information (Cont'd)

|                              |  |
|------------------------------|--|
| 210                          | Model 210 Sound Level Meter - Includes meter, WS-7 windscreen, 56-990 calibrator adapter and 59-533 storage case.  |
| 210-10                       | Model 210 Sound Level Meter Kit - 210 SLM with accessories, QC-10 Calibrator and 59-533 storage case.  |
| 2100                         | Model 2100 Sound Level Meter - Includes meter, WS-7 windscreen, 56-990 calibrator adapter and 59-533 storage case.   |
| 2100-10                      | Model 2100 Sound Level Meter Kit - 2100 SLM with accessories, QC-10 Calibrator and 59-533 storage case.  |
| 2100R                        | Model 2100R Remote Sound Level Meter - Includes meter, WS-7 windscreen, 56-990 calibrator adapter and 59-533 storage case.   |
| 2100R-10                     | Model 2100R Sound Level Meter Kit - 2100R SLM with accessories, QC-10 Calibrator and 59-533 storage case.  |
| 2200                         | Model 2200 Integrating Sound Level Meter - Includes meter, WS-7 windscreen, 56-990 calibrator adapter, and 59-533 storage case.  |
| 2200-10                      | Model 2200 Sound Level Meter Kit - 2200 SLM with accessories, QC-10 Calibrator and 59-533 storage case.  |
| 2200R                        | Model 2200R Remote Integrating Sound Level Meter - Includes meter, WS-7 windscreen, 56-990 calibrator adapter, and 59-533 storage case.  |
| 2200R-10                     | Model 2200R Sound Level Meter Kit - 2200R SLM with accessories, QC-10 Calibrator and 59-533 storage case.  |
| SPDP-1200                    | SoundPatrol DP 1200 Class 1 Integrating/Printing Noise Ordinance Enforcement Meter - Includes meter, WS-7 windscreen, 56-990 calibrator adapter and 59-533 storage case.   |
| SPDP-1200-10                 | SoundPatrol DP 1200 Class 1 Integrating/Printing Noise Ordinance Enforcement Meter Kit - SPDP-1200 SLM with accessories, QC-10 Calibrator and 59-533 storage case.   |
| SPDP-1200R                   | SoundPatrol DP 1200R Class 1 Remote Integrating/Printing Noise Ordinance Enforcement Meter - Includes meter, WS-7 windscreen, 56-990 calibrator adapter and 59-533 storage case.   |
| SPDP-1200R-10                | SoundPatrol DP 1200R Class 1 Remote Integrating/Printing Noise Ordinance Enforcement Meter Kit - SPDP-1200R SLM with accessories, QC-10 Calibrator and 59-533 storage case.  |
| SPDP-2200                    | SoundPatrol DP 2200 Class 2 Integrating/Printing Noise Ordinance Enforcement Meter - Includes meter, WS-7 windscreen, 56-990 calibrator adapter and 59-533 storage case.   |
| SPDP-2200-10                 | SoundPatrol DP 2200 Class 2 Integrating/Printing Noise Ordinance Enforcement Meter Kit - SPDP-2200 SLM with accessories, QC-10 Calibrator and 59-533 storage case.   |
| SPDP-2200R                   | SoundPatrol DP 2200R Class 2 Remote Integrating/Printing Noise Ordinance Enforcement Meter - Includes meter, WS-7 windscreen, 56-990 calibrator adapter and 59-533 storage case.   |
| SPDP-2200R-10                | SoundPatrol DP 2200R Class 2 Integrating/Printing Noise Ordinance Enforcement Meter Kit - SPDP-2200R SLM with accessories, QC-10 Calibrator and 59-533 storage case.   |
| SPDP-PRINTER                 | Portable Rechargeable Battery-Operated Thermal Printer with belt clip, AC adapter, printer cable, roll of paper and instruction manual.  |
| 57-258                       | Thermal Paper - Five Roll Pack for use with the SPDP-PRINTER   |
| <b>Optional Accessories:</b> |  |
| QC-20                        | Sound Calibrator w/Selectable Output (114dB or 94dB at 1000Hz or 250Hz)- Note: Calibrator adapter is provided with the meter when purchased. If purchasing a calibrator only, the appropriate calibrator adapter needs to be purchased separately. |
| QC-10                        | Sound Calibrator w/Single Output (114dB at 1000Hz)- Note: Calibrator adapter is provided with the meter when purchased. If purchasing a calibrator only, the appropriate calibrator adapter needs to be purchased separately.                      |



**WORLDWIDE HEADQUARTERS**

1060 Corporate Center Drive • Oconomowoc, Wisconsin 53066 USA

262-567-9157 • 800-245-0779 • Fax: 262-567-4047

[www.Quest-Technologies.com](http://www.Quest-Technologies.com)