

# Advanced Integration Optime™ System Linkage Exceptional Value

Easily select hearing protection with  
the 3M™ Sound Detector SD-200.

The 3M™ Sound Detector SD-200 is a compact, lightweight sound level meter designed to accurately measure workplace noise levels. Green, yellow and red LEDs flash the colour that corresponds to the Optime Alert System, making it easy to select the appropriate level of hearing protection. The SD-200 offers an integrating feature that computes the average sound pressure level, allowing for more accurate assessment of intermittent sound levels.

The user-friendly interface makes the SD-200 easy to operate. A rechargeable lithium polymer battery helps lower the total cost of ownership compared to other sound level meters that use replaceable batteries.

## The Advantage of Integrating Measurements

In many work environments, noise levels are highly variable, making it difficult to accurately measure sound levels. The SD-200 helps solve this problem by providing the average sound pressure level. This advanced functionality is easy to use and delivers a steadier reading in environments such as manufacturing facilities or machine shops where noise levels are often highly variable.



*Shown charging with USB  
accessory (included).*





#### Optime Alert Levels



Above 95dBA  
You will need to get a more accurate noise assessment.



Above 87dBA  
Products marked with these icons are suitable at this noise level.



Between 87-93dBA  
Products marked with these icons are suitable at this noise level.



Between 83-93dBA  
Products marked with these icons are suitable at this noise level.



Between 83-85dBA  
Products marked with these icons are suitable at this noise level.



Between 80-85dBA  
Products marked with these icons are suitable at this noise level.

#### SPECIFICATIONS

|                             |   |
|-----------------------------|---|
| <b>Size</b>                 | 16.5cm x 6.1cm x 2.3cm / 6.5" x 2.4" x 0.9"   |
| <b>Weight</b>               | 125g (4.4oz)  |
| <b>Tripod Mount</b>         | Accepts a 1/4" – 20 screw (located on bottom, backside of the instrument).  |
| <b>Housing</b>              | ABS/Polycarbonate   |
| <b>Battery</b>              | Lithium polymer battery (1000mAh), rechargeable<br>Run-Time: 50+ hours without LEDs activated<br>Low battery indicator  |
| <b>Microphone</b>           | Omni-directional; Class/Type 2; 1/2" diameter; electret condenser   |
| <b>Display Digits</b>       | 2cm (3/4") with 0.1dB resolution and 0.5 sec. update rate   |
| <b>Keypad</b>               | 5 keys including: F/S, A/C, Mode, Run/Stop and Power On/Off   |
| <b>Charging</b>             | USB cable is provided to charge the instrument with a computer  |
| <b>Standards/Directives</b> | ANSI S1.4 1983 (R 2006) ANSI S1.43 1997 (R 2007)<br>IEC 61672-1 (2002) IEC 61010-1 (2010)<br>2006/95/EC Low Voltage Equipment (LVD) Safety<br>2004/108/EC Electromagnetic Compatibility (EMC)<br>2002/95/EC Restriction of Hazardous Substances (RoHS)<br>2002/96/EC Waste Electrical and Electronic Equipment (WEEE) |

#### Measurements

|   |   |
|---|---|
| <b>Display Data and Status Indicators</b> | Sound Pressure Level (SPL), Average Value ( $L_{EQ}/L_{AVG}$ ), Optime alert and HP, Maximum value (MAX), Minimum value (MIN) Run-Time (max 99 hours), Overload (OL) and Under-Range (UR) |
| <b>Linearity Range</b>                    | 45 to 130 dB (Dynamic range)  |
| <b>Frequency Weighting</b>                | A or C  |
| <b>Time Response</b>                      | Fast (125 msec) or Slow (1 sec)   |
| <b>Exchange rate (ER)</b>                 | 3 dB or 5 dB  |

#### Temperature Ranges.

|                                       |                         |
|---------------------------------------|-------------------------|
| <b>Operating Temperature</b>          | 0°C-40°C (32°F-104°F)   |
| <b>Operating atmospheric pressure</b> | 80-110kPa               |
| <b>Relative Humidity</b>              | >90%, non-condensing    |
| <b>Storage Temperature</b>            | -20°C-70°C (-4°F-158°F) |
| <b>Storage atmospheric pressure</b>   | 50-150kPa               |

All specifications subject to change.

#### Ordering Information

| Product Number | Description                               | 3M ID          |
|----------------|---|----------------|
| SD-200 EMEA    | Sound Detector Kit, USB Cable, Windscreen | 70-0715-6552-0 |

#### Accessories

| Product Number | Description              | 3M ID          |
|----------------|--------------------------|----------------|
| 053-575        | USB Cable                | 70-0715-8175-8 |
| SD-WS          | Windscreen               | 70-0716-0639-9 |
| 056-990        | 0.5" Calibration adapter | 70-0715-8115-4 |
| QC-10          | Calibrator               | 70-0715-7972-9 |
| 059-045        | Tripod                   | 70-0715-8374-7 |



3M United Kingdom PLC  
3M Centre, Cain Road  
Bracknell, RG12 8HT  
0870 60 800 60

www.3M.EU/Safety

ITA137779/0511

#### WARNING

The 3M™ SD-200 Sound Level Meter may not be sufficient to carry out a full risk assessment of workers exposed to hazardous noise levels to help comply with the European Physical Agents (Noise) Directive 2003/10/EC. For further information contact a Safety Professional or Industrial Hygienist.

#### WARNING

Not for use in explosive or hazardous locations. This product is not intrinsically safe.