









# 3M™ Sound Detector SD-200






## Measuring Sound Pressure Level (SPL)

1. Place windscreen over microphone (if not attached)
2. Power on  the SD-200 and check that the battery indicator  is not present.
  - If present, charge the instrument prior to measuring.
3. Select desired weighting and/or response time. (See diagram #5 and #9.)
4. Position the SD-200 microphone so it is angled about 70 degrees from the noise source.
5. Measuring: when first powered on, the current SPL will be displayed or the last viewed parameter.
  - For integrated measurements, press the Run/Stop  key. (Unlike SPL, the  $L_{EQ}/L_{AVG}$  values will provide steadier values over a period of time until values become more stable.)
  - To view measurements, repeatedly press the Mode  key. (This cycles through the measurements.)
  - To stop measuring, press Run/Stop  key.
6. Power off by pressing and holding the  key until it turns off (while not in run mode).

### QUICK START



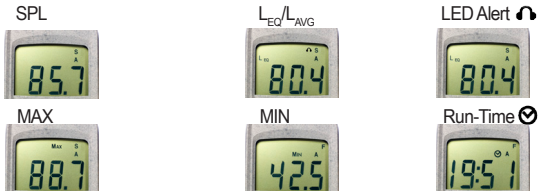
### Display and Keys

1. LEDs: Used in the LED Alert  measurement screen
2. Screen indicators: Slow time response & A frequency weighting (S, A is a common setting)
3. Measurement type (SPL,  $L_{EQ}/L_{AVG}$ , LED Alert , MAX, MIN, Run-Time )
  - Note: No indicator signifies SPL
4. Measurement value
5. F/S (Fast/Slow time response) key
6. Mode key (cycles through measurement screens)
7. Run/Stop key for averaging values ( $L_{EQ}/L_{AVG}$ , MAX, MIN, LED Alert , Run-Time )
8. Power On/Off key
9. A/C frequency weighting key



## Viewing Measurements




Pressing the mode key will cycle you through the measurement screens (as displayed below):



## LED Alert Measurement Screen

This screen displays  $L_{EQ}/L_{AVG}$  data and activates the LEDs at specific dB levels.

### LED Alert levels

-  Green LED: flashes when noise measurements are 80 - 85 dB
-  Yellow LED: flashes when noise measurements are 85- 105 dB
-  Red LED: flashes when noise measurements are above 105 dB

**IMPORTANT:** For appropriate use of hearing protection devices, consult your company's safety professional, applicable local standards, or call 3M at 1-800-243-4630. (Note: Hearing protection sold separately.)

For more information, in United States, contact:

Website: [www.3M.com/OccSafety](http://www.3M.com/OccSafety)

Technical Assistance: 1-800-243-4630

For other 3M products: 1-800-3M HELPS

Or 1-651-737-6501

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3M Occupational Health and Environmental Safety Division  
3M Center Building 0235-02-W-70  
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