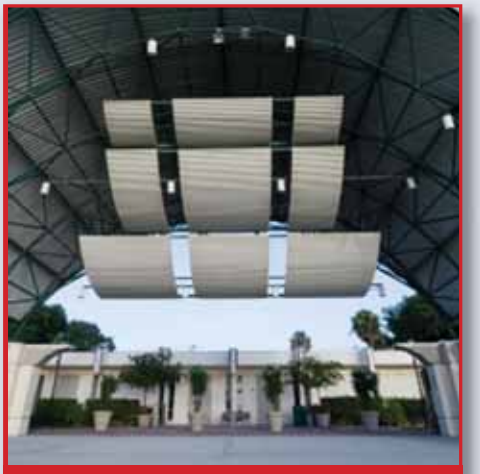
# Class 1 Sound Level Meter
## with Excel-Formatted Data Logging SD Card

## Accurately Measures Sound Levels of Machinery or an Environment with 0.1 dB Resolution


No. DSM403SD

### Applications:

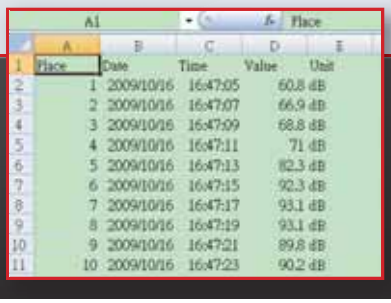
- Acoustics design
- Sound system setup
- OSHA compliance



Acoustics Design

Sound System Setup

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards

| | A | B | C | D | E |
|---|---|---|---|---|---|
| 1 | Place | Date | Time | Value | Unit |
| 2 | 1 | 2009/10/16 | 16:47:05 | 60.8 | dB |
| 3 | 2 | 2009/10/16 | 16:47:07 | 66.9 | dB |
| 4 | 3 | 2009/10/16 | 16:47:09 | 68.8 | dB |
| 5 | 4 | 2009/10/16 | 16:47:11 | 71 | dB |
| 6 | 5 | 2009/10/16 | 16:47:13 | 82.3 | dB |
| 7 | 6 | 2009/10/16 | 16:47:15 | 92.3 | dB |
| 8 | 7 | 2009/10/16 | 16:47:17 | 93.1 | dB |
| 9 | 8 | 2009/10/16 | 16:47:19 | 93.1 | dB |
| 10 | 9 | 2009/10/16 | 16:47:21 | 89.8 | dB |
| 11 | 10 | 2009/10/16 | 16:47:23 | 90.2 | dB |

# Class 1 Sound Level Meter
## with Excel-Formatted Data Logging SD Card

### Features:

- Measures sound levels of machinery or an environment
- Big (2.5 in. diagonal) front-panel green backlit LCD is easy to read
- Makes measurements in auto ranging mode or within a manually settable range
- Displays maximum and minimum readings and holds any reading
- Performs automatic data logging at sampling time settable from 1 second to 9 hours
- Also supports manual logging and changing of card storage location
- Auto power off function

No. DSM403SD

### Included Accessories:

- Hard carrying case
- Sound wind shield ball
- 2 GB SD memory card
- User's manual

### Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)
- SDRD1 - SD Card Reader

### Specifications:

**Embedded Microcontroller:** Custom one-chip LSI device

**Display Type:** LCD with green backlight

**Display Size:** 2.05 x 1.5 in. (52 x 38mm)

**Parameter Measured:** dB

**Frequency Range:** 31.5 Hz to 16 kHz

**Measurement Range:**
- 30 to 130 dB in auto ranging mode
- User can also select fixed range of 30 to 80 dB, 50 to 100 dB, or 80 to 130 dB

**Measurement Weighting:**
- By frequency: using Class I IEC 61672 standard; frequency weighing uses "A" or "C" standard
- By time: using Class 1 IEC 61672 standard; time weighting is fast or slow (200 ms or 500 ms response time)

**Measurement Accuracy:**
- With "A" frequency weighting: ± 2.0 dB @ 31.5 Hz, 1.5 dB @ 63 Hz, 1.5 dB @ 125 Hz, 1.4 dB @ 250 Hz, 1.4 dB @ 500 Hz, 1.1 dB @ 1 kHz, 1.6 dB @ 2 kHz, 1.6 dB @ 4 kHz, +2.1 dB and -3.1dB @ 8 kHz; +3.0 dB and -6.0 dB @ 12.5 kHz, +3.5 dB and -17.0 dB @ 16 kHz

**Measurement Resolution:** 0.1 dB

**Data Logging Sampling Time:** 1 second to 1 hour

**Settable Parameters:** Date, time, auto power off, beep sound, sampling time, decimal point or comma decimal division, "A" or "C" frequency weighting, fast or slow time weighting

**Storable/Recallable Readings:** Maximum, minimum

**SD Card Capacity:** 1 GB to 16 GB

**Operating Temperature:** 32° to 122°F (0° to 50°C)

**Operating Relative Humidity:** 0 to 85%

**Power Consumption:**
- 8 mADC (normal operation, with backlight off and SD card not saving data)
- 14 mADC with backlight on and card saving data
- 44 mADC with backlight on and card saving data

**Dimensions of Meter:**
9.65 x 2.68 x 1.77 in. (245 x 68 x 45mm)

**Weight of Meter:** 1.08 lb. (489g)

**Power Source:**
Six "AA" batteries or optional 9-VDC AC adapter