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

No. DSM402SD

Applications:

- Noise pollution control
- OSHA noise regulatory compliance
- Acoustics design

Noise Pollution Control

Acoustics Design

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

Patented Technology

Typical Excel Data

Typical Excel Plotted Data

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Class 2 Sound Level Meter
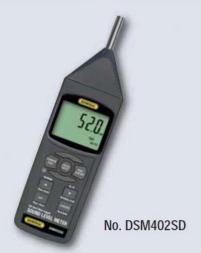## with Excel-Formatted Data Logging SD Card

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

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

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Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

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

Parameter Measured: dB

Frequency Range: 31.5 Hz to 8 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: frequency weighing uses "A" or "C" standard
- By time: time weighting is fast or slow (200 ms or 500 ms response time)

Measurement Accuracy:
- With "A" frequency weighting: ± 3.5 dB @ 31.5 Hz, 2.5 dB @ 63 Hz, 2 dB @ 125 Hz, 1.9 dB @ 250 Hz, 1.9 dB @ 500 Hz, 1.4 dB @ 1 kHz, 2.6 dB @ 2 kHz, 3.6 dB @ 4 kHz, 5.6 dB @ 8 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)
- 30 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