

GENERAL®

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



Patented Technology

	A1				
	Place	Date	Time	Value	Unit
1	Place	2009/10/16	16:47:05	60.8	dB
2		2009/10/16	16:47:07	66.9	dB
3		2009/10/16	16:47:09	68.8	dB
4		2009/10/16	16:47:11	71	dB
5		2009/10/16	16:47:13	82.3	dB
6		2009/10/16	16:47:15	92.3	dB
7		2009/10/16	16:47:17	93.1	dB
8		2009/10/16	16:47:19	93.1	dB
9		2009/10/16	16:47:21	89.8	dB
10		2009/10/16	16:47:23	90.2	dB

Typical Excel Data



Typical Excel Plotted Data

8715 Mesa Point Terrace San Diego, CA 92154
Toll Free: 1.866.363.6634 Tel: 1.619.429.4545 Fax: 1.619.374.7012
Email: sales@calright.com <http://www.calright.com>

CALRIGHT INSTRUMENTS
The Right Source For Your Test & Measurement Needs



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

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



No. DSM403SD

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 -3.1 dB @ 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



General Tools & Instruments

80 White Street, New York, NY 10013-3567
TEL: 212. 431. 6100 TOLL FREE: 800. 697. 8665
sales@generaltools.com www.generaltools.com

8715 Mesa Point Terrace San Diego, CA 92154
Toll Free: 1.866.363.6634 Tel: 1.619.429.4545 Fax: 1.619.374.7012
Email: sales@calright.com http://www.calright.com

**CALRIGHT
INSTRUMENTS**
The Right Source For Your Test & Measurement Needs