



# Sound Meter with Data Logging SD Card

## HHSL402SD



- ✓ Measures 30 to 130dB
- ✓ 2 GB SD Card Included
- ✓ Automatic Range Selections
- ✓ Real Time Data Logger
- ✓ Large Backlit LCD
- ✓ MAX/MIN Function
- ✓ Auto Power-Off
- ✓ RS232 Interface (Optional Cable)
- ✓ Data Logging Software (Optional)
- ✓ Hard Carrying Case Included



HHSL402SD

The HHSL402SD is a general-purpose handheld instrument that measures the noise level of an environment or the sound level produced by a piece of machinery. Using an integrated 13 mm (0.5") condenser microphone, the meter can measure sound levels from 30 to 130 dB with a resolution of 0.1 dB and show the results on a front-panel liquid-crystal display. Several features and capabilities enhance the meter's versatility. Among them are autoranging, the ability to hold readings and display maximum and minimum readings, and user-settable measurement parameters such

as frequency weighting (using the "A" and "C" standards) and time weighting (fast or slow). Because it is microprocessor-based, the HHSL402SD can make full use of the portability, reliability and large storage capacities that SD memory cards offer. Measurements can be made automatically at any sampling rate between one second and one hour. After timestamping and storing the measurements on an SD card plugged into the instrument, the user can remove the card and

plug it into a laptop or desktop computer either directly or via a USB card reader. The data points are stored on the card as files with the .xls extension, which can be opened by Microsoft's Excel application. The HHSL402SD has a backlit 64 mm (2.5") diagonal display and is powered by six "AA" alkaline batteries or an optional 9V AC/DC adaptor.



Sound wind shield ball.

All items included and shown smaller than actual size.

HHSL402SD

Hard carrying case.

2 GB SD card with case.

## Specifications

**Display Type:** LCD with green backlight

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

**Parameter Measured:** dB

**Frequency Range:** 31.5 Hz to 8 kHz

**Measurement Range:**

- 30 to 130 dB in autoranging 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 or 500 ms response time)

**Measurement Accuracy:**

- With "A" frequency weighting:  
 $\pm 3.5$  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 to 16 GB

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

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

**Power Supply:** Six alkaline "AA" batteries or optional 9 Vdc AC adaptor

**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:**

245 x 68 x 45 mm (9.65 x 2.68 x 1.77")

**Weight of Meter:** 489 g (1.08 lbs)



OMEGACARE<sup>SM</sup> extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARE<sup>SM</sup> covers parts, labor and equivalent loaners.

**To Order Visit [omega.com/hhsl402sd](http://omega.com/hhsl402sd) for Pricing and Details**

Model No.	Description
HHSL402SD	Sound meter with data logging SD card

### Accessories (Field Installable)

Model No.	Description
2GB-SD	Spare 2 GB SD card
ADAPTER-SD	AC power adaptor
SW-U101-WIN	Software for data logging with RS232 cable
RS232-SD	Optional RS232 interface cable

Comes complete with sound wind shield ball, 6 "AA" batteries, hard carrying case, 2 GB SD memory card, and operator's manual.

**Ordering Example:** HHSL402SD, sound meter with data logging SD card.

OCW-3, OMEGACARE<sup>SM</sup> extends standard 1-year warranty to a total of 4 years.