

### TECHNICAL DATA



### Features

- Measures velocity and acceleration to determine vibration level
- User selectable unit of measure (metric or imperial)
- RMS, Peak hold, Data hold and Max/Min functions
- 10Hz to 1kHz frequency range
- Basic accuracy of  $\pm 5\%$
- Real-time datalogger with integral SD memory card
- User selectable sampling rate from 1 to 3600 seconds
- Large, easy-to-read backlit LCD display
- Optional PC software features live tracking via USB connection
- Tripod mount for long-term monitoring
- Meets ISO1954 standards
- Low battery indicator and auto shut off
- Includes vibration probe with cable, hard carrying case, and batteries

### Specifications

#### Acceleration

Measuring Range: 0.5 to 199.9 m/s<sup>2</sup>  
0.05 to 20.39 g  
2 to 656ft/s<sup>2</sup>  
Accuracy:  $\pm(5\% + 2 \text{ dgt})$   
Resolution: 0.1m/s<sup>2</sup>, 0.01 g, 1 ft/s<sup>2</sup>

#### Velocity

Measuring Ranges: 0.5 to 199.9 mm/s  
0.05 to 19.99 cm/s  
0.02 to 7.87 in/s  
Accuracy:  $\pm(5\% + 2 \text{ dgt})$   
Resolution: 0.1 mm/s; 0.01 cm/s; 0.01 in/s

#### General Specifications

Response Time: 1 sec  
Frequency Range: 10Hz - 1KHz  
Display: 4-digit LCD  
Backlit Display: Yes  
RMS, Peak and Max  
Hold Measurements: Yes  
Data Hold: Yes  
Min: Yes  
Max: Yes  
Zero Adjustment: Yes  
Datalogging Capabilities: Yes  
Real-Time Clock and  
Date Stamp: Yes  
Selectable Sampling Rate: Yes (1, 2, 5, 10, 30, 60, 120, 300, 600, 1800, 3600s)  
External Memory: Yes, expandable up to 16Gb with SD card (optional)  
Auto Shut-off: Yes (after 10 mins/off)  
Kick Stand: Yes  
Tripod Mountable: Yes  
Low Battery Indicator: Yes  
Probe Cable Length: 47.2" (1.2m)

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Power Supply: 6 x AA batteries or AC Adapter (optional)

Output: Yes

PC Connectivity: USB Cable (optional)

Software: SW-U801-WIN Software (optional)

Software OS Compatibility: Windows XP / Vista / 7 CE

Product Certifications: CE

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

Storage Temperature: 14 to 140°F (-10 to 60°C)

Operating Humidity: 10-85%

Dimensions: Instrument: 9.7 x 2.7 x 1.8" (203 x 76 x 38 mm)  
Probe: 1.5 x 0.6" (37 x 16 mm)

Weight: Instrument: 17.3oz (515g)  
Probe: 3.5oz (99g)



Model	Description
SD-8205	Vibration Meter/Datalogger
SD-8205PROBE	Replacement Probe
SD-VMB	Magnetic Base
SD-4GB	4GB SD Memory Card
USB-01	USB Cable
SW-U801-WIN	Data Acquisition Software
AP-9VA-110V	AC Adapter
R1500	Tripod
CA-05A	Soft Carrying Case
R8888	Deluxe Hard Carrying Case
SD-8205-NIST	Vibration Meter/Datalogger & NIST