

### 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 integrated SD memory card
- User selectable sampling rate from 1 to 3600 seconds
- Easy-to-read backlit LCD display
- Tripod mount for long-term monitoring
- Meets ISO 2954 standards
- Low battery indicator and auto shut off
- Includes vibration probe with 47.2" (1.2m) cable, hard carrying case & batteries

#### Specifications

##### Acceleration

Measuring Range: 0.5 to 199.9m/s<sup>2</sup>  
0.05 to 20.39g  
2 to 656ft/s<sup>2</sup>

Accuracy:  $\pm(5\% + 5 \text{ dgt})$

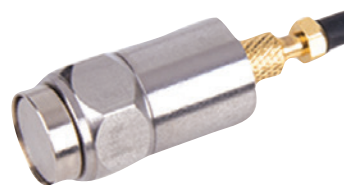
Resolution: 0.1m/s<sup>2</sup>  
0.01g  
1ft/s<sup>2</sup>

##### Velocity

Measuring Range: 0.5 to 199.9mm/s  
0.05 to 19.99cm/s  
0.02 to 7.87in/s

Accuracy:  $\pm(5\% + 5 \text{ dgt})$

Resolution: 0.1mm/s  
0.01cm/s  
0.01in/s



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### General Specifications

|                                      |   |
|--------------------------------------|---|
| Response Time:                       | 1 second  |
| Frequency Range:                     | 10Hz to 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, 3600 seconds)                    |
| External Memory:                     | Yes, expandable up to 16GB with SD card (optional)                              |
| Auto Shut-off:                       | Yes (after 10 minutes/off)  |
| Kick Stand:                          | Yes   |
| Tripod Mountable:                    | Yes   |
| Low Battery Indicator:               | Yes   |
| Probe Cable Length:                  | 47.2" (1.2m)  |
| Power Supply:                        | 6 x AA batteries or AC Adapter (optional)                                       |
| Data Output:                         | Yes (RS-232)  |
| Product Certifications:              | CE  |
| Operating Temperature:               | 32 to 122°F (0 to 50°C)   |
| Storage Temperature:                 | 14 to 140°F (-10 to 60°C)   |
| Operating Humidity Range:            | 10 to 85%   |
| Dimensions:                          | Instrument: 9.7 x 2.7 x 1.8" (203 x 76 x 38mm)<br>Probe: 1.5 x 0.6" (37 x 16mm) |
| Weight:                              | Instrument: 17.3oz (515g)<br>Probe: 3.5oz (99g)                                 |

### TECHNICAL DATA



### R7000SD-KIT

Data Logging Vibration Meter with Power Adapter and SD Card

Includes:  
R7000SD Data Logging Vibration Meter; RSD-16GB 16GB Micro SD Memory Card with adapter and RSD-ADP-NA AC Power Adapter



| Model              | Description   |
|--------------------|---|
| R7000SD            | Data Logging Vibration Meter                                |
| R7000SD-PROBE      | Replacement Probe for R7000SD                               |
| R7000SD-PROBE-BASE | Magnetic Base for R7000SD                                   |
| R1500              | Tripod  |
| RSD-ADP-NA         | Power Supply, 110V  |
| RSD-ADP-EU         | Power Supply, 220V  |
| CA-05A             | Soft Carrying Case  |
| R8888              | Hard Carrying Case  |
| SD-4GB             | 4GB Class 4 SDHC Memory Card                                |
| RSD-16GB           | 16GB Micro SD memory Card w/Adapter                         |
| R7000SD-KIT        | Data Logging Vibration Meter with Power Adapter and SD Card |
| R7000SD-NIST       | Data Logging Vibration Meter with NIST                      |