

Data Logging Vibration MeterModel R7000SD



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 ±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/s²

0.05 to 20.39g $2 \text{ to } 656\text{ft/s}^2$

Accuracy: $\pm (5\% + 5 \text{ dgt})$ Resolution: 0.1m/s^2

esolution: 0.1m/s² 0.01g

1ft/s²

Velocity

Measuring Range: 0.5 to 199.9mm/s

0.05 to 19.99cm/s 0.02 to 7.87in/s

0.02 00 7.07111

Accuracy: $\pm (5\% + 5 \text{ dgt})$ Resolution: 0.1mm/s

> 0.01cm/s 0.01in/s

General Specifications

Response Time: 1 second
Frequency Range: 10Hz to 1KHz
Display: 4-digit LCD

Backlit Display: Yes





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TECHNICAL DATA

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)

SD Card Class

Compatibility: Class 4

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 $122^{\circ}F$ (O to $50^{\circ}C$) Storage Temperature: 14 to $140^{\circ}F$ (-10 to $60^{\circ}C$)

Operating Humidity Range: 10 to 85%

Dimensions: Instrument: 9.7 x 2.7 x 1.8"

(203 x 76 x 38mm)

Probe: 1.5 x 0.6" (37 x 16mm)

Weight: Instrument: 17.3oz (515g)

Probe: 3.5oz (99g)

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-PR0BE	Replacement Probe for R7000SD
R7000SD-PR0BE-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