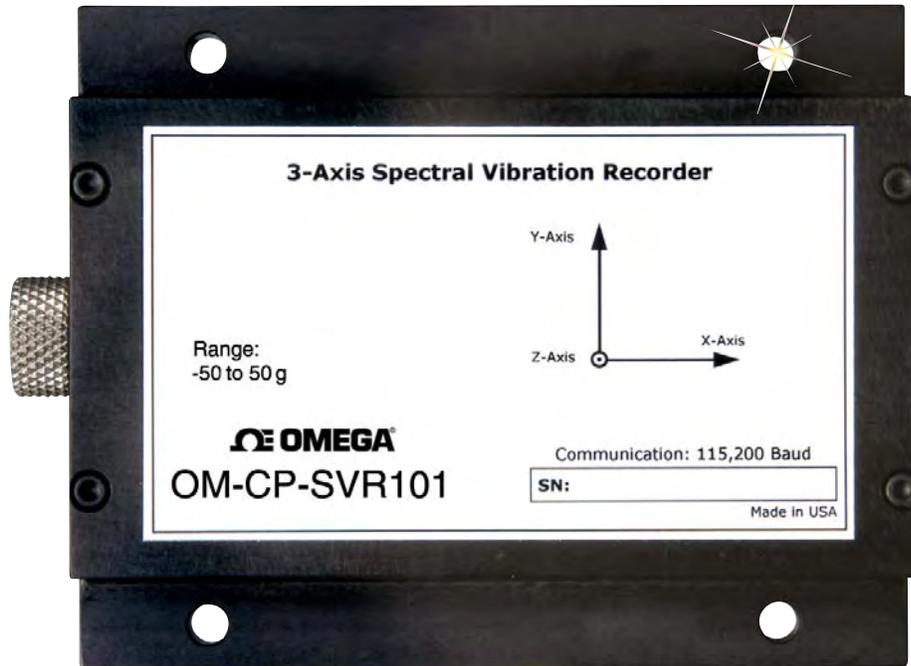


OM-CP-SVR101 Spectral Vibration Data Logger Part of the NOMAD® Family



OM-CP-SVR101, \$599, data logger shown smaller than actual size

Starts at
\$599



- ✓ Records Vibration Frequencies, Peak Acceleration, Temperature
- ✓ Real-Time FFT
- ✓ User Settable Trigger Levels
- ✓ High Speed Download
- ✓ Programmable Start Time
- ✓ Built-in Accelerometers
- ✓ Transportation and Shipping Applications

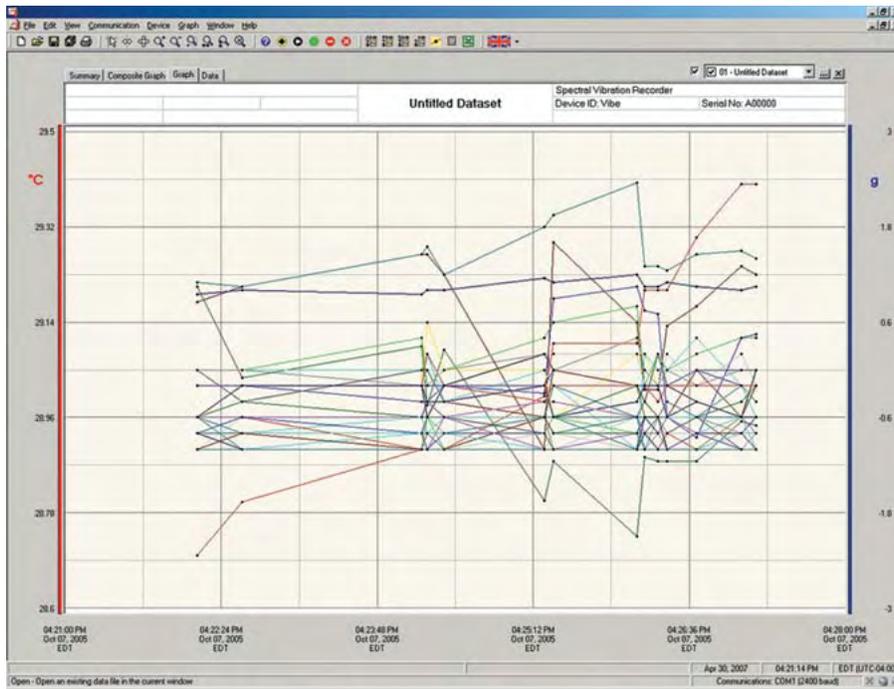
- ✓ Machinery Failure Detection
- ✓ Detect Mechanical Resonances
- ✓ Endurance Testing
- ✓ Wind Resonance on Structures Supports
- ✓ Vehicle Vibration
- ✓ Race Car Diagnostics
- ✓ Materials Research

The OM-CP-SVR101 Spectral Vibration Recorder (SVR) is a self-contained device engineered to record acceleration data for spectral analysis of vibration and peaks. This device will record and time tag 3-axis vibrations and peaks to provide a history of shock/vibration conditions. It also records temperature once every sample period.

The OM-CP-SVR101 measures and computes real-time spectral data using an FFT (Fast Fourier Transform) from 0 to 63.5 Hertz.

To make efficient use of memory, the OM-CP-SVR101 only takes data when the (user preset) trigger level is exceeded. The basic data window is 2 seconds but the XYZ magnitude data can be averaged over longer sample periods of up to 2 hours.

The OM-CP-SVR101 and the OM-CP Series Data Recorder Software makes data retrieval quick and easy. Simply connect the OM-CP-SVR101 to an empty COM port on the PC (via the OM-CP-IFC110 interface cable). Once offloaded to a PC, the information can be graphed, analyzed and presented using the OM-CP Series software or easily exported to a 3-D graph in Excel.



The Windows-based software package allows the user to effortlessly collect, display and analyze data. A variety of powerful tools allow you to examine, export, and print professional looking data with just a click of the mouse.

Specifications

Acceleration Sensor:

MEMS Semiconductor

Acceleration Range: $\pm 50g$

Acceleration Resolution:

0.05g

Calibrated Accuracy: $\pm 1g$

Trigger Range: 0 to 50g

(XYZ magnitude)

Sampling Rate: 256Hz

(decimated to 128Hz)

FFT Range: 0 to 63.5 Hz

in 0.5 Hz bins (significant

math errors occur at 0-1.5Hz)

FFT Window Period: 2 seconds

FFT Sample Period: 2 seconds

to 7,200 seconds (2 hrs)

Memory: 16Mbit FLASH

(7,595 samples)

Temperature Sensor:

Internal Semiconductor

Range: -20 to 60°C (-4 to 140°F)

Resolution: 0.1°C

Calibrated Accuracy: $\pm 0.5^\circ C$

Start Time: Software

programmable start time and date,

up to 7 days in advance

Real Time Recording:

May be used with PC to monitor

and record instantaneous

acceleration in real time

Calibration: Digital calibration through software

Calibration Date: Automatically recorded within device

Power: 9V battery and/or 6 to 12Vdc external power

Battery Life: 48 hours typical with 9V lithium battery

Power Consumption: 25mA (average) recording, <40 μ A idle @ 25°C

Data Format: Time stamped frequency bins, peak acceleration, average and peak vector sum, temperature

Time Accuracy: ± 1 minute/month

(at 20°C, RS232 port not in use)

Computer Interface: PC serial or USB, 115,200 baud

Software: WIN98/NT/2000/XP/VISTA 32-bit

(VISTA 32-bit version only; VISTA 64-bit is not supported)

Operating Environment:

-20 to 60°C, (-4 to 140°F)

0 to 95% RH non-condensing

Dimensions: 1.0 x 3.5" x 4.4"

(26 mm x 89 mm x 112 mm)

Weight: 12 oz (340 g)

Materials: Anodized Aluminum

IN STOCK FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
OM-CP-SVR101	\$599	Spectral vibration data logger
OM-CP-IFC110	99	Windows software and 1.2 m (4') RS-232 cable with DB9F termination
OM-CP-IFC200	119	Windows software and 3.7 m (12') USB interface cable
OM-CP-BAT103	20	Replacement 9 V lithium battery

Operator's manual, battery and RS-232 cable included with the **OM-CP-IFC110** Windows software (sold separately).

Ordering Example: **OM-CP-SVR101** spectral vibration data logger and **OM-CP-IFC110** Windows software with RS-232 cable, \$599 + 99= **\$698**.

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