



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

Starts at
\$599



- Records Vibration Frequencies, Peak Acceleration
- Detect Mechanical Resonances
- User Settable Trigger Levels
- High Speed Download
- Built-in Accelerometers
- Programmable Start Time



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

The OM-CP-SVR101 is a self-contained data logger engineered to record accelerations for spectral analysis of vibration and peaks. This device is ideal for many applications including endurance testing, machinery failure detection, and vehicle vibration monitoring. This device records and time-tags 3-axis vibrations and peaks to provide a history of shock/vibration conditions. The device measures and computes real-time spectral data using an FFT (Fast Fourier Transform) from 0 to 128 Hertz. To make efficient use of memory, the OM-CP-SVR101 only takes data when the (user preset) trigger level is exceeded. The minimum sampling rate is 2 seconds and the device can display peak X, Y, and Z shock data, vector sum for data evaluated, up to 4 hours. Data is stored in non-volatile solid state memory.

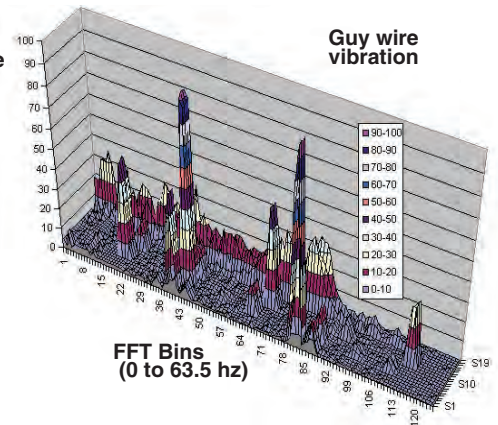
The OM-CP-SVR101 and the OM-CP Series Data Recorder Software makes data retrieval quick and easy. Simply connect the OM-CP-SVR101 to an empty COM port on the PC (via the OM-CP-IFC110 interface cable). Once offloaded to a PC, the information can be graphed, analyzed and presented using the OM-CP Series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

Specifications

Acceleration Sensor: MEMS Semiconductor
Acceleration Range: ±50g
Acceleration Resolution: 0.05g
Calibrated Accuracy: ±1g
Sampling Rate: 256Hz (decimated to 128Hz)
FFT Range: 0 to 128 (1Hz bins)
FFT Window Period: 2 seconds

XYZ Magnitude

FFT Sample Period: 2 seconds to 14,400 seconds (4 hrs)
Memory: 16 Mbit (3,971 samples)
Reading Rate: 2 secs up to 4 hrs
Start Modes: Software programmable immediate start or delay start 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
Battery Type: 9 V battery user replaceable
Battery Life: 60 hours typical with 9V lithium battery
Power Consumption: 25 mA (average) recording, <40 µA 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, RS-232 port not in use)



The Windows-based software package allows the user to effortlessly collect, display and analyze data.

Computer Interface: PC serial or USB, 115,200 baud
Software: XP SP3/Vista and 7 (32-bit and 64-bit)
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-IFC200	129	Windows software and 3.7 m (12') USB interface cable
OM-CP-BAT103	25	Replacement 9 V lithium battery

Operator's manual, battery and USB interface cable included with the OM-CP-IFC200 Windows software (sold separately).
Ordering Example: OM-CP-SVR101 spectral vibration data logger and OM-CP-IFC200 Windows software with USB interface cable, \$599 + 129 = \$728.



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