

Tri-Axial Shock Data Logger Part of the NOMAD® Family

OM-CP-SHOCK101



- ✓ Built-In Accelerometers
- ✓ Measures Dynamic and Static Acceleration
- ✓ Real-Time Operation
- ✓ Programmable Start Time
- ✓ Compact
- ✓ Reuseable

The OM-CP-SHOCK101 is a battery powered, stand alone 3-axis shock recorder.

The OM-CP-SHOCK101 measures and records shock as the peak acceleration levels over the user-defined interval.

The OM-CP-SHOCK101 is specifically designed for documenting dynamic environments such as moving vehicles, trucks, containers, ships, etc. The device is also valuable in characterizing environments such as production and assembly lines of delicate electronics, IC fabrication, communications and computer components. This compact, portable, easy to use device will measure and record up to 349,525 measurements per channel. The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged.

The OM-CP-SHOCK101 makes data retrieval quick and easy. Simply plug it into an empty COM or USB port and our user-friendly software does the rest.

The Windows software converts your PC into a real time strip chart recorder. Data can be printed in graphical or tabular format and can also be exported to a text or Microsoft Excel file.

Specifications

Acceleration Type:
MEMS semiconductor

Acceleration Range (g)	±5	±50	±100	±250
Calibrated Accuracy (g)	±0.2	±1	±2	±4
Acceleration Resolution (g)	0.01	0.05	0.1	0.2



OM-CP-SHOCK101-50 shown smaller than actual size

Sampling Rate: 1.953 ms/512 Hz (note: data is sampled at this rate, only peak values are written at the end of a recording interval)

Frequency Response:

0 Hz to approx. 400 Hz

Memory: 349,525 readings per channel (1,398,100 total memory)

Recording Interval: 64 Hz to 5 minutes for shock, selectable through software

Real Time Recording: May be used with PC to monitor and record instantaneous acceleration in real time (1 sec or slower reading rate)

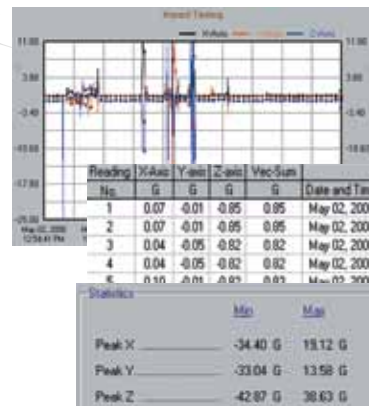
Start Modes:

Immediate or delay start

Programmable Start Delay:

Up to 180 days from PC launch

Password Protection: An optional password may be programmed into the device to restrict access to configuration options. Data may be read out without the password



OM-CP-IFC200 Windows software displays data in graphical or tabular format

Calibration: Digital calibration through software

Calibration Date: Automatically recorded within device

Power: 9V lithium or alkaline battery (included)

Battery Life: 7 days typical with lithium battery

Data Format: Date and time stamped, G and mG

Time Accuracy: ±1 minute per month at 20 to 30°C

Computer Interface: USB or serial interface (cable required) 115,200 baud

Software: XP SP3/Vista/7 and 8 (32-bit and 64-bit)

Operating Environment: -20 to 60°C (-4 to 140°F)
0 to 95% RH non-condensing

Dimensions: 89 H x 112 W x 26 mm D (3.5 x 4.4 x 1.0")

Weight: 340 g (12 oz)

Material: Anodized aluminum

To Order Visit omega.com/om-cp-shock101 for Pricing and Details

Model No.	Description
OM-CP-SHOCK101-5	Tri-axial shock data logger, ±5 g range
OM-CP-SHOCK101-50	Tri-axial shock data logger, ±50 g range
OM-CP-SHOCK101-100	Tri-axial shock data logger, ±100 g range
OM-CP-SHOCK101-250	Tri-axial shock data logger, ±250 g range
OM-CP-IFC200	Windows software and 1.8 m (6') USB interface cable
OM-CP-BAT103	Replacement 9V lithium battery
OM-CP-SHOCK-MAG-KIT	Magnet mount kit for data logger

Comes complete with 9V lithium battery.

Operator's manual and USB interface cable are included with the OM-CP-IFC200 Windows software and USB interface cable (required to operate the data logger, sold separately).

Ordering Example: OM-CP-SHOCK101-5 tri-axial shock data logger and OM-CP-IFC200 Windows software and USB interface cable.

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