

# OM-CP-SHOCK101-EB Tri-Axial Shock Data Logger with Extended Battery Life

Part of the NOMAD® Family

**\$749**

Basic Unit



- ✓ Shipment Monitoring
- ✓ Assembly Line Monitoring
- ✓ Brake Testing
- ✓ Fragility Testing
- ✓ Laboratory Drop Testing
- ✓ Aircraft Turbulence Measurement
- ✓ Machinery Monitoring
- ✓ Railcar Coupling Impacts

The OM-CP-SHOCK101-EB is a battery powered, stand alone 3-axis shock recorder which offers a battery life of up to 60 days typical. The unit measures and records shock as the peak acceleration levels over the user defined interval.

The OM-CP-SHOCK101-EB 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 equipment, IC fabrication, communications and computer components.

This is an all-in-one compact, portable, easy to use device that will measure and record up to 349,525 measurements per axis. The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged. The user can start and stop directly from the computer and it's small size allows it to fit almost anywhere.



OM-CP-SHOCK101-50-EB data logger, \$749, shown smaller than actual size.

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

## Specifications

Acceleration Range (g):	±5	±50	±100
Acceleration Resolution (g):	±0.01	±0.05	±0.1
Calibrated Accuracy (g):	±0.2	±1.0	±2.0

**Channels:** Shock (3 axes)  
**Sample Rate:** 1.953ms/512Hz  
**Reading Interval:** 64Hz to 5min  
**Memory:** 349,525 readings per axis, for a total of 1,398,100 readings  
**Start Time:** Software programmable start time and date, up to 180 days in advance

## Status Indicators:

**Red:**  
Blinks to indicate sleep mode  
**Red & Green:**  
Blinks to indicate delay start  
**Green:**  
Blinks to indicate taking samples (blinks at sample rate)

## Password Protection:

An optional password may be programmed into the device to restrict access to configuration options. Data may be downloaded without the password

**Real Time Recording:** Record instantaneous acceleration in real time (1 second or slower reading rate)

**Calibration:** Digital calibration through software

**Calibration Date:** Automatically recorded within device



Reading No.	X-Axis G	Y-axis G	Z-axis G	Vec-Sum G	Date and Time	Annotation
1	0.07	-0.01	-0.85	0.85	May 02, 2000 12:54:41 PM	
2	0.07	-0.01	-0.85	0.85	May 02, 2000 12:54:43 PM	
3	0.04	-0.05	-0.82	0.82	May 02, 2000 12:54:45 PM	
4	0.04	-0.05	-0.82	0.82	May 02, 2000 12:54:47 PM	
5	0.10	-0.01	-0.82	0.83	May 02, 2000 12:54:49 PM	
6	0.17	-0.05	-0.82	0.84	May 02, 2000 12:54:51 PM	
7	0.04	-0.08	-0.88	0.88	May 02, 2000 12:54:53 PM	
8	0.07	-0.05	-0.82	0.82	May 02, 2000 12:54:55 PM	
9	0.04	-0.01	-0.82	0.82	May 02, 2000 12:54:57 PM	
10	0.04	-0.01	-0.82	0.82	May 02, 2000 12:54:59 PM	
11	0.17	-0.01	-0.85	0.87	May 02, 2000 12:55:01 PM	
12	0.07	-0.14	-0.88	0.89	May 02, 2000 12:55:03 PM	
13	0.04	-0.11	-0.82	0.83	May 02, 2000 12:55:05 PM	
14	0.07	-0.05	-0.85	0.85	May 02, 2000 12:55:07 PM	

OM-CP-IFC110, \$99, Windows software displays data in graphical or tabular format.

Statistics		Min	Max
Peak X		-34.40 G	19.12 G
Peak Y		-33.04 G	13.58 G
Peak Z		-42.87 G	38.63 G



OM-CP-SHOCK101-50-EB data logger, \$749, shown smaller than actual size.

**Power:** 6 D-cell alkaline batteries included, user replaceable  
**Replaceable Battery:** 60 days typical @25°C, 1 minute reading rate  
**Data Format:** Date and time stamped gravities (g and mg)  
**Time Accuracy:** ±1 minute/month (at 20°C, RS232 port not in use)  
**Computer Interface:** PC serial or USB (interface cable required); 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 54°C, (-4 to 129°F) 0 to 95% RH non-condensing  
**Dimensions:** 5.5 x 5.4 x 3.2" (140 mm x 137 mm x 80 mm)  
**Weight:** 2.3 kg (5 lbs)  
**Materials:** Anodized aluminum

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To Order (Specify Model Number)		
Model No.	Price	Description
OM-CP-SHOCK101-5-EB	\$749	Tri-axial shock data logger, ±5 g, extended battery life
OM-CP-SHOCK101-50-EB	749	Tri-axial shock data logger, ±50 g, extended battery life
OM-CP-SHOCK101-100-EB	749	Tri-axial shock data logger, ±100 g, extended battery life
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
MN1300	3	Replacement 1.5V D cell alkaline battery for extended battery life

Operator's manual and RS-232 cable are included with the **OM-CP-IFC110** Windows software (required to operate the data logger and sold separately).

**Ordering Example:** OM-CP-SHOCK101-50-EB tri-axial shock data logger, ±50 g range, and OM-CP-IFC110 Windows software with RS-232 cable, \$749 + 99 = \$848.

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