OM-CP-ULTRASHOCK-EB

Temperature, Humidity, Pressure, and Tri-Axial Shock Data Logger Part of the NOMAD® Family

Starts at



- All Inclusive Design
- Built-In Accelerometers
- 60 Day Battery Life
- High Speed Download
- ✓ Reusable
- Compact
- User-Friendly

The OM-CP-ULTRASHOCK-EB is a battery powered, stand alone temperature, pressure, humidity and 3-axis shock recorder which offers a battery life of up to 60 days typical.

The unit measures and records temperature, pressure and humidity at the selected reading rates, while shock is recorded as the peak acceleration levels over the same interval.

The OM-CP-ULTRASHOCK-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 electronics, 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 174,762 measurements per channel (1,572,858 measurements, total). The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged. The device can be started and stopped directly from your computer and it's small size allows it to fit almost anywhere.



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

Specifications TÉMPERATURE

Sensor: Semiconductor Range: -20 to 54°C (-4 to 129°F)

Resolution: 0.1°C Accuracy: ±0.5°C (0 to 50°C) HUMIDITY

Sensor: Capacitive Polymer Range: 5 to 95% RH

Accuracy: ±3% RH (±2% RH Typical at 25°C)
Resolution: 0.1% RH Specified Accuracy Range: 10 to 40°C; 10 to 80% RH PRESSURE

Sensor: Semiconductor

strain gage

Range: 0 to 30 psia Resolution: 0.002 psia Calibrated Accuracy: ±1.0% FSR 25°C; ±0.2% typical Specified Accuracy Range: 0 to 30 psia, 25°C SHOCK Accelerometer Type: MEMS Semiconductor

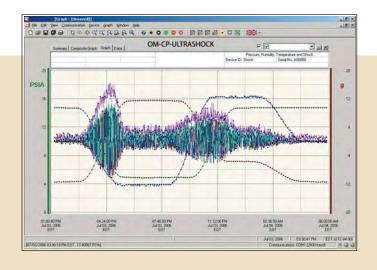
Acceleration Range (g)	±5	±50	±100
Acceleration Resolution (g)	±0.01	±0.05	±0.1
Calibrated Accuracy (g)	±0.2	±1.0	±2.0

Sampling Rate: 1.953 ms (512 Hz) Acceleration Frequency

Response: 0 Hz to approximately

400 Hz Memory: 174,762 per channel (1,572,858 total readings)

Recording Interval: 64 Hz to 5 minutes for shock, selectable in software. Temperature, pressure and humidity sampled approximately every 2 seconds at intervals faster than'2 seconds. Otherwise, sampled at the reading rate.



Reading	X-Axis	Y-axis	Z-axis	Vec-Sum		
No.	G	G	G	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	
8	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.

	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

Start Mode: Immediate start or delay start, 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 with the password Calibration: Digital

calibration through software Calibration Date: Automatically recorded within device

Power: 6 D-cell alkaline (battery included), user replaceable

Data Format: Date and time stamped; gravities (g and mg) °C, °F, °K, °R, %RH, mg/ml water vapor concentration, psia, inHg, mmHg, bar, atm, torr, Pa, kPa, MPa, Mpa Time Accuracy:

±1 minute per month at 20 to 30°C Battery Life:

60 days typical with alkaline battery, 1 minute reading rate @ 25°C

Computer Interface: PC 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: 89 H x 111 W x 26 mm D

(3.5 x 4.4 x 1.0") **Weight:** 2.3 kg (80 oz) Material: Anodized aluminum

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)				
Model No.	Price	Description		
OM-CP-ULTRASHOCK-5-EB	\$899	Tri-axial shock data logger, ±5 g, extended battery life		
OM-CP-ULTRASHOCK-5-EB-CERT	959	Tri-axial shock data logger, ±5 g, extended battery life with NIST calibration certificate		
OM-CP-ULTRASHOCK-50-EB	899	Tri-axial shock data logger, ±50 g, extended battery life		
OM-CP-ULTRASHOCK-50-EB-CERT	959	Tri-axial shock data logger, ±50 g, extended battery life with NIST calibration certificate		
OM-CP-ULTRASHOCK-100-EB	899	Tri-axial shock data logger, ±100 g, extended battery life		
OM-CP-ULTRASHOCK-100-EB-CERT	959	Tri-axial shock data logger, ±100 g, extended battery life with NIST calibration certificate		
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-ULTRASHOCK-5-EB-CERT humidity, temperature, pressure and tri-axial shock data logger, OM-CP-IFC110 Windows software with RS-232 cable, \$899 + 99 = \$998.

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