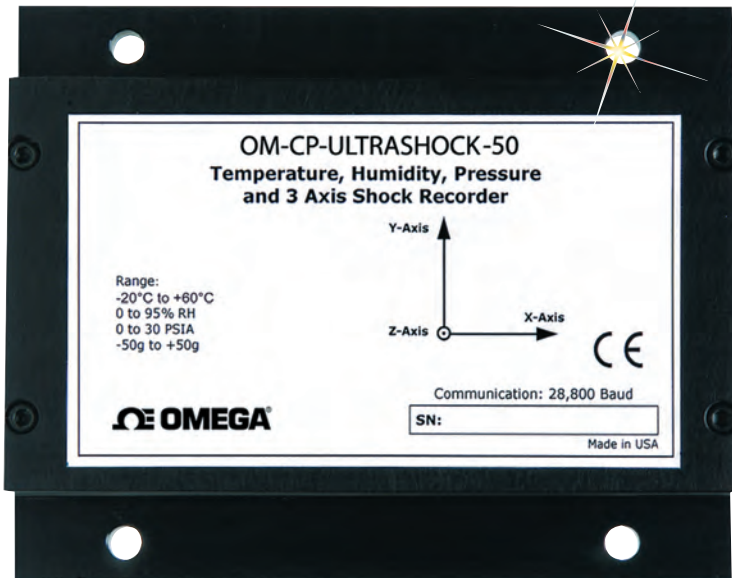


Temperature, Humidity, Pressure and Tri-Axial Shock Data Loggers Part of the NOMAD® Family

Basic Unit
\$800



- ✓ Built-In Accelerometers
- ✓ All Inclusive Design
- ✓ Compact
- ✓ Programmable Start Time
- ✓ Real-Time Operation
- ✓ Reusable
- ✓ User Friendly



OM-CP-ULTRASHOCK-50 data logger, \$800, shown smaller than actual size.

The OM-CP-ULTRASHOCK is a battery powered, stand alone temperature, pressure, humidity and 3-axis shock recorder.

The OM-CP-ULTRASHOCK 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 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 174,762 measurements per channel. 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 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

TEMPERATURE

Sensor: Semiconductor
Range: -20 to 60°C (-4 to 140°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

SHOCK

Accelerometer Type: MEMS Semiconductor

Acceleration Range (g)	±5	±50	±100	±250
Calibrated Accuracy (g)	±0.2	±1	±2	±4
Acceleration Resolution (g)	0.01	0.03	0.05	0.2

Sampling Rate:

1.953 millisecond (512 Hz)

Acceleration Frequency

Response: 0 Hz

to approximately 400 Hz

Readings: 64 readings every second to 1 every 5 minutes

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

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

Start Mode: Immediate start or delay start, up to 6 months in advance

Real-Time Recording:

Device can be used with PC to monitor and record data in real-time

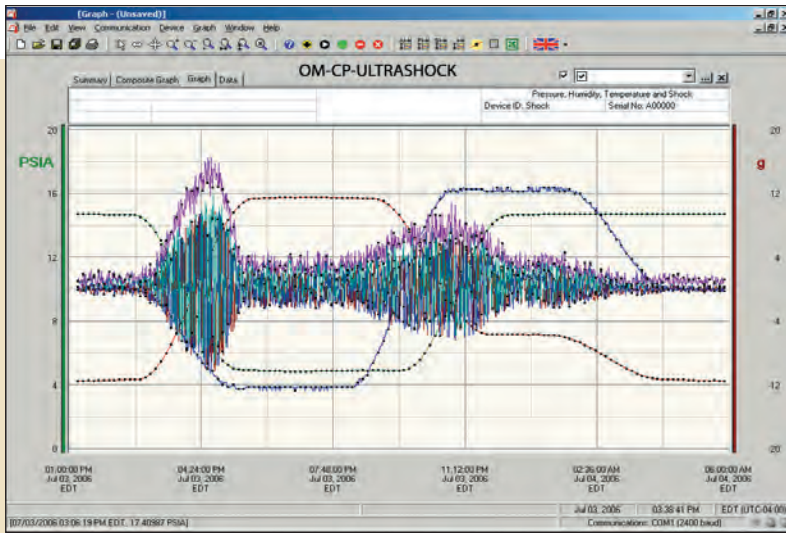
Password Protection:

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: 9V lithium or alkaline (battery included)



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-IFC200, \$129, 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

Data Format: Date and time stamped; °C, °F, °K, °R, %RH, mg/ml water vapor concentration, psia, inHg, mm Hg, bar, atm, torr, Pa, kPa, MPa, g
Time Accuracy: ±1 min per month at 2 to 30°C
Battery Life: 3 to 7 days typical with lithium battery, 1 min reading rate @ 25°C

Computer Interface: PC or USB (interface cable required); 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: 89 H x 111 W x 26 mm D (3.5 x 4.4 x 1.0")
Weight: 341 g (12 oz)
Material: Anodized aluminum

E

☐ MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Model No.	Price	Description
OM-CP-ULTRASHOCK-50	\$800	Tri-axial shock data logger, ±50 g
OM-CP-ULTRASHOCK-50-CERT	860	Tri-axial shock data logger, ±50 g with NIST calibration certificate
OM-CP-ULTRASHOCK-5	800	Tri-axial shock data logger, ±5 g
OM-CP-ULTRASHOCK-5-CERT	860	Tri-axial shock data logger, ±5 g with NIST calibration certificate
OM-CP-ULTRASHOCK-100	800	Tri-axial shock data logger, ±100 g
OM-CP-ULTRASHOCK-100-CERT	860	Tri-axial shock data logger, ±100 g with NIST calibration certificate
OM-CP-ULTRASHOCK-250	800	Tri-axial shock data logger, ±250 g
OM-CP-ULTRASHOCK-250-CERT	860	Tri-axial shock data logger, ±250 g with NIST calibration certificate
OM-CP-IFC200	129	Windows software and 3.7 m (12') USB interface cable
OM-CP-BAT103	25	Replacement 9V lithium battery
OM-CP-SHOCK-MAG-KIT	69	Magnet mount kit for data logger

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

Ordering Example: OM-CP-ULTRASHOCK-50-CERT humidity, temperature, pressure and tri-axial shock data logger, OM-CP-IFC200 Windows software with USB interface cable, \$860 + 129 = \$969.



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• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

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Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters