OM-CP-ULTRASHOCK101 Humidity, Temperature, Pressure and Tri-Axial Shock Datalogger Part of the NOMAD® Family

$799 Basic Unit

- Built-In Accelerometers
- Excellent Low Frequency Response
- 12-Bit A/D Resolution

The OM-CP-ULTRASHOCK101 is a 3-axis, battery powered, stand-alone, programmable shock, temperature, humidity and pressure datalogger. This low-cost recording device measures and records the peak acceleration levels to which it is exposed as well as temperature, humidity and pressure, along with their date and times of occurrence. The OM-CP-ULTRASHOCK101 is designed for documenting dynamic environments such as moving vehicles, trains, containers and ships. The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged. For setup and data recovery the OM-CP-ULTRASHOCK101 is used in conjunction with a host PC running the user friendly, Windows based software.

Specifications

ACCELERATION CHANNELS
Acceleration Accuracy: ±0.5G
Acceleration Resolution: ±0.1G
Acceleration Range: ±5G, ±50G, ±100G
Sampling Rate: 1 ms (>1 kHz digitization) when accelerometer circuitry is active

TEMPERATURE CHANNEL
Temperature Accuracy: ±0.5°C (0 to 50°C)
Temperature Resolution: ±0.1°C
Temperature Range: -40 to 80°C (-40 to 176°F)

HUMIDITY CHANNEL
Calibrated Accuracy: ±3% RH (10 to 40°C, 10 to 80% RH)
Humidity Resolution: ±0.5% RH
Humidity Range: 5 to 95% RH

PRESSURE CHANNEL
Pressure Accuracy: ±1.0% max at 25°C; ±0.2% typical
Pressure Resolution: 0.0005 psia
Pressure Range: 0 to 30 psia

GENERAL SPÉCIFICATIONS
No. of Channels: 6 data channels and 1 virtual channel (shock vector sum)

NOTE: extended exposure to > 90% RH results in a temporary 3% RH shift

Memory: 23,831 readings per channel

Recording Interval: 5 seconds to 12 hours selectable through software

Real Time Recording: Device may be used with PC to monitor and record data in real time (displays instantaneous acceleration data in this mode)

Start/Time: Start time and date are programmable through software

BATTERY Life: 9 V lithium battery included

Power: 9 V lithium battery included

Battery Life: 5 to 7 days

Time Accuracy: ±1 minute per month at 20°C when RS-232 port is not in use

ALL MODELS AVAILABLE FOR FAST DELIVERY!

Data Format: Date and time stamped, °C, °F, °K, °R, % RH, mg/ml water vapor concentration, psia, in Hg, mm Hg, bar, atm, Torr, Pa, kPa, MPa, G

Weight: 425 g (15 oz)

Computer Interface: PC serial, RS-232C COM or USB

Software: WIN 95/98/NT/2000/XP

Operating Environment: -40 to 80°C (-40 to 176°F) 0 to 99% RH non-condensing

Dimensions: 81 H x 110 W x 28 mmD (3.2 x 4.3 x 1.1")

Material: Black anodized aluminum

To Order (Specify Model Number)

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OM-CP-ULTRASHOCK101</td>
<td>$799</td>
<td>Tri-axial shock datalogger, ±50G</td>
</tr>
<tr>
<td>OM-CP-ULTRASHOCK101-CERT</td>
<td>859</td>
<td>Tri-axial shock datalogger, ±50G with NIST calibration certificate</td>
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<tr>
<td>OM-CP-ULTRASHOCK-1-5</td>
<td>799</td>
<td>Tri-axial shock datalogger, ±5G</td>
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<tr>
<td>OM-CP-ULTRASHOCK-5-CERT</td>
<td>859</td>
<td>Tri-axial shock datalogger, ±5G with NIST calibration certificate</td>
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<tr>
<td>OM-CP-ULTRASHOCK-100</td>
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<td>Tri-axial shock datalogger, ±100G</td>
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<td>OM-CP-ULTRASHOCK-100-CERT</td>
<td>859</td>
<td>Tri-axial shock datalogger, ±100G with NIST calibration certificate</td>
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<tr>
<td>OM-CP-IFC110</td>
<td>99</td>
<td>Windows software &amp; 1.2 (4’) RS-232 cable with DB9F termination</td>
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<tr>
<td>OM-CP-IFC200</td>
<td>119</td>
<td>Windows software &amp; 3.7 (12’) USB interface cable</td>
</tr>
<tr>
<td>OM-CP-BAT103</td>
<td>20</td>
<td>Replacement 9 V lithium battery</td>
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</tbody>
</table>

Operator’s manual and RS-232 cable are included with the OM-CP-IFC110 Windows software (software is required to operate the datalogger and is sold separately).

More than 100,000 Products Available!

- **Temperature**

- **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

- **pH and Conductivity**
  Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

- **Data Acquisition**

- **Pressure, Strain and Force**
  Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

- **Heaters**