OM-CP-BRIDGE Series
Bridge/Strain Gage Data Logger
Part of the NOMAD® Family

Starts at $499

- Store up to 32,767 Readings
- Models Available for High Speed or Long Battery Life Applications
- Real Time Operation
- Programmable Start Times
- Miniature, Stand-Alone Design
- Reusable, Battery Powered

The OM-CP-BRIDGE Series are battery-powered, stand-alone data loggers that measure and record voltage signals from strain gages, load cells and other low level dc sources. These compact, units are perfect for monitoring stress, torque, strain, pressure and data from many other sensors/transducers. Both the OM-CP-BRIDGE110 and OM-CP-BRIDGE120 are available in ranges from ±10 to ±1000 mV, and are capable of storing up to 32,767 readings.

The OM-CP-BRIDGE110 is designed for long battery life, up to 10 years (at 15 min reading rate), with a user-selectable reading rate from 2 sec to 12 hrs. The high speed OM-CP-BRIDGE120 models are capable of reading rates up to 20 readings/sec.

The OM-CP-BRIDGE units feature non-volatile solid-state memory, and can store readings even when the battery is discharged. Data retrieval is quick and easy – simply plug in to a COM or USB port. The OM-CP-IFC software displays your data in an easy to use graph, so you can analyze your data quickly.

A variety of powerful tools allow you to examine, export and print professional looking data with just a click of the mouse.

SPECIFICATIONS
Input Connection: 6-position removable screw terminal
Input Impedance: 1 MΩ during acquisition, low impedance when inactive
Reference Voltage Output: 2.5 Vdc, 2.5 mA (1 kΩ) maximum load
Maximum Input Signal Impedance: 5 kΩ (350 Ω sensors can be used with series resistors to produce >1 kΩ; 120 Ω gages can be used in half and quarter bridge configurations)
Specified Accuracy: Nominal range @ 25°C
Temperature Effect on Span and Offset: <25 µV over -40 to 80°C
Engineering Units: Stored in device; user may define any desired scale and offset from ±1.000E-31 to ±9.999E+31
Start Modes: Software programmable immediate or delay start up to six months in advance
Real-Time Recording: Device can be used with PC to monitor and record data in real-time
Memory: 32,767 readings; software configurable memory wrap

Reading Rate:
BRIDGE110 Models: 2 sec to 12 hr
BRIDGE120 Models: 20 Hz to 12 hr
Calibration: Digital calibration through software
Calibration Date: Automatically recorded within device to alert user when calibration is required
Power: 3.6V lithium battery (included); user replaceable
Battery Life:
BRIDGE110 Models: 10 yr (15 min reading rate @ 25°C)
BRIDGE120 Models: 25 days
Power: 3.6V lithium battery included
Data Format: Date and time stamped: %, ppm; e, µe, V, mV, µV engineering units specified through software
Time Accuracy: ±1 min per/month (20 to 30°C)
Computer Interface: PC serial, RS232C COM or USB (interface cable required); 57,600 baud
Software: XP SP3/Vista and 7 (32 and 64-bit)
Operating Environment: -40 to 80°C (~40 to 176°F)
0 to 95% RH non-condensing
Dimensions: 42 H x 68 W x 20 mm D (1.7 x 2.7 x 0.8")
Weight: 60 g (2 oz)

<table>
<thead>
<tr>
<th>Input Ranges OM-CP-BRIDGE110 Nominal Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Range</td>
</tr>
<tr>
<td>Measurement Range</td>
</tr>
<tr>
<td>Resolution</td>
</tr>
<tr>
<td>Calibrated Accuracy</td>
</tr>
</tbody>
</table>

To Order, Call 1-800-DAS-TECH or Shop Online at omega.com
To Order, Call 1-800-327-4833™ or Shop Online at omega.com™

Comes complete with 3.6V lithium battery. Operator’s manual and interface cable are included with the OM-CP-IFC200 software/cable package (required for data logger operation, sold separately).

* To order with NIST-traceable calibration certificate, add suffix “-CERT” to model number, and $60 to price.

Ordering Example: OM-CP-BRIDGE110-10, bridge/strain gage data logger, and OM-CP-IFC200, software with USB cable, $499 + 129 = $628.

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>PRICE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>OM-CP-IFC200</td>
<td>129</td>
<td>Windows software and 3.7 m (12') USB interface cable</td>
</tr>
<tr>
<td>OM-CP-BAT105</td>
<td>15</td>
<td>Replacement 3.6V lithium battery</td>
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<tr>
<td>OM-CP-CONNECTOR-6</td>
<td>10</td>
<td>Replacement 6 position terminal block connector</td>
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</tbody>
</table>
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**