Part of the NOMAD® Family Starts at

- ✓ 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 M Ω during acquisition,

low impedance when inactive

Reference Voltage Output: 2.5 Vdc, 2.5 mA (1 kΩ) maximum load

Maximum Input Signal Impedance: $5 \text{ k}\Omega$ (350 Ω sensors can be used with series resistors to produce >1 k Ω ; 120 Ω gages can be used in half and quarter bridge configurations)

Specified Accuracy: Nominal range

Temperature Effect on Span and Offset: <25 uV 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

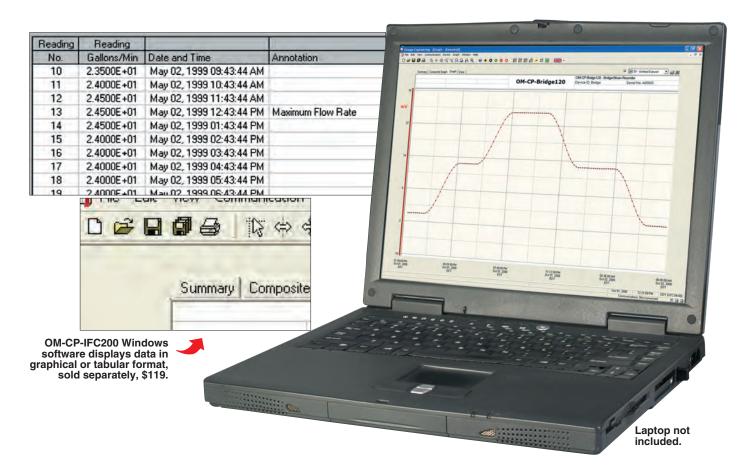
(32 and 64-bit)

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

 $(1.7 \times 2.7 \times 0.8")$ **Weight:** 60 g (2 oz)

Input Ranges OM-CP-BRIDGE110 Nominal Range						
Nominal Range	±10 mV	±25 mV	±100 mV	±1000 mV		
Measurement Range	±15 mV	±37.5 mV	±150 mV	±1200 mV		
Resolution	1 μV	2.5 μV	5 μV	50 μV		
Calibrated Accuracy	±0.25% FSR	±0.10% FSR	±0.05% FSR	±0.01% FSR		



MOST POPULAR MODELS HIGHLIGHTED!

To Order <i>(Specify Model Number)</i>							
MODEL NO.	PRICE	RANGE NOMINAL	MEASUREMENT RANGE	RESOLUTION	ACCURACY		
STANDARD BRIDGE/STRAIN GAGE DATA LOGGERS							
OM-CP-BRIDGE110-10	\$499	±10 mV	±15 mV	1 μV	±0.25% FSR		
OM-CP-BRIDGE110-25	499	±25 mV	±37.5 mV	2.5 μV	±0.10% FSR		
OM-CP-BRIDGE110-100	499	±100 mV	±150 mV	5 μV	±0.05% FSR		
OM-CP-BRIDGE110-1000	499	±1000 mV	±1200 mV	50 μV	±0.01% FSR		
HIGH SPEED BRIDGE/STRAIN GAGE DATA LOGGERS*							
OM-CP-BRIDGE120-10	\$549	±10 mV	±15 mV	1 μV	±0.25% FSR		
OM-CP-BRIDGE120-25	549	±25 mV	±37.5 mV	2.5 μV	±0.10% FSR		
OM-CP-BRIDGE120-100	549	±100 mV	±150 mV	5 μV	±0.05% FSR		
OM-CP-BRIDGE120-1000	549	±1000 mV	±1200 mV	50 μV	±0.01% FSR		

MODEL NO.	PRICE	DESCRIPTION
OM-CP-IFC200	119	Windows software and 3.7 m (12') USB interface cable
OM-CP-BAT105	12 Replacement 3.6V lithium battery	
OM-CP-CONNECTOR-6	10	Replacement 6 position terminal block connector

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).

Ordering Example: OM-CP-BRIDGE110-10, bridge/strain gage data logger, and OM-CP-IFC200, software with USB cable, \$499 + 119 = \$618.

^{*} To order with NIST-traceable calibration certificate, add suffix "-CERT" to model number, and \$60 to price.

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