

Bridge/Strain Gage Data Logger

Part of the NOMAD® Family

OM-CP-BRIDGE110

All Models
\$499

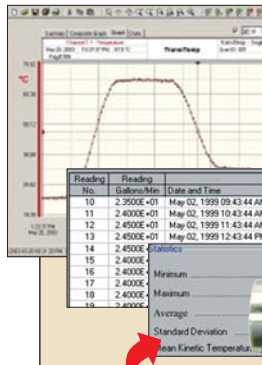


- 10-Year Battery Life
- High-Speed Downloads
- Programmable Start Time
- Miniature Size
- Real-Time Operation
- Reads in Microstrain and Engineering Units
- Use with Strain Gages, Load Cells, Pressure Transducers, Torque Sensors, Load Bolts, and Position Transducers

The OM-CP-BRIDGE110 is a miniature, battery-powered, standalone, bridge/strain gage data logger. It features a real-time clock module that extends the battery life to more than 10 years (15-minute reading rate at 25°C) and allows for high-speed downloads. This portable, easy-to-use device will read and record up to 32,767 measurements. The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged. The logger can be started and stopped from a computer and its small size allows it to fit almost anywhere. The OM-CP-BRIDGE110 makes data retrieval quick and convenient. Simply plug it into an available computer port and our user-friendly software does the rest. The software converts a PC into a real-time strip chart recorder. Data can be printed in graphical and tabular format or exported to a text or Microsoft Excel file.

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)
Temperature Effect on Span and Offset: <25 μV over -40 to 80°C



OM-CP-IFC110, \$99, Windows software displays data in graphical or tabular format



OM-CP-BRIDGE110, \$499, shown smaller than actual size

Engineering Units: Stored in device; user may define any desired scale and offset from ±1.000E-31 to ±9.999E+31
Start Time: Start time and date are programmable through software 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
Recording Interval: 1 reading every 2 seconds to 1 every 12 hours
Calibration: Digital calibration through software
Calibration Date: Automatically recorded within device to alert user when calibration is required
Battery Life: 10 years at 15 min reading rate, 25°C

Power: 3.6 V lithium battery included
Data Format: Date and time stamped: %, ppm; e, μe, V, mV, μV engineering units specified through software
Time Accuracy: ±1 minute per month at 20 to 30°C
Computer Interface: PC serial, RS-232C COM or USB (interface cable required); 56,600 baud
Software: WIN98/NT/2000/XP/VISTA 32-bit (VISTA 32-bit version only; VISTA 64-bit is not supported)
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)

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 (Specify Model Number)

Model No.	Price	Description
OM-CP-BRIDGE110-10	\$499	Bridge input data logger (±10 mV input range)
OM-CP-BRIDGE110-25	499	Bridge input data logger (±25 mV input range)
OM-CP-BRIDGE110-100	499	Bridge input data logger (±100 mV input range)
OM-CP-BRIDGE110-1000	499	Bridge input data logger (±1000 mV input range)
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
OMP-CP-BAT105	12	Replacement 3.6 V lithium battery
OM-CP-CONNECTOR-6	10	Replacement 6 position terminal block connector

Operator's manual and RS-232 cable are included with the OM-CP-IFC110 Windows software sold separately.

Ordering Example: OM-CP-BRIDGE110-100 bridge input data logger (±100 mV input range) with OM-CP-IFC110 Windows software and RS-232 cable, \$499 + 99 = \$598.

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Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485, Ethernet and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• 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, Pressure Transmitters, Strain Gauges, Torque Transducers, Valves

• Heaters

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