

Four-Channel State Recorder Part of the NOMAD® Family

OM-CP-QUADSTATE



- ✓ Interfaces to Contact Closures or TTL Signals Up to 30V
- ✓ Real-Time Operation
- ✓ Programmable Start Time
- ✓ Programmable Engineering Units
- ✓ Memory Wraparound
- ✓ Miniature Size

The OM-CP-QUADSTATE is a four-channel, battery-powered, standalone state recorder. This portable, easy to use device will read and record up to 52,428 state changes. The OM-CP-QUADSTATE senses input transitions or contact closures from external sources such as transducers and/or state initiators, and it records the time and input state of the device when a transition occurs. 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 a computer and its small size allows it to fit almost anywhere.

The OM-CP-QUADSTATE makes data retrieval quick and easy. Simply plug it into an available COM 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:

4 removable screw terminals

Input Low: <0.4V

Input High: >2.7V

Input Range: 0 to 12 Vdc continuous; (0 to 30 Vdc peak)

Duty Cycle Limitation:

24 V: 10%
(<6 seconds per minute)

18 V: 25%
(<15 seconds per minute)

12 V: 50%
(<30 seconds per minute)

Input Impedance: >1 KΩ



OM-CP-QUADSTATE data logger, shown smaller than actual size

Time Resolution: 1 second (reading rate dependent)

Engineering Units: User can define units up to 10 characters in length. This value is stored within the device.

Scale Factor: User can program any desired scaling factor from $\pm 1.000E-31$ to $\pm 9.999E+31$. The scaling factor is stored within the device.

Start Modes: Software programmable immediate start or delay start up to six months in advance

Reading Rate: 1 reading every second to 1 every 12 hours

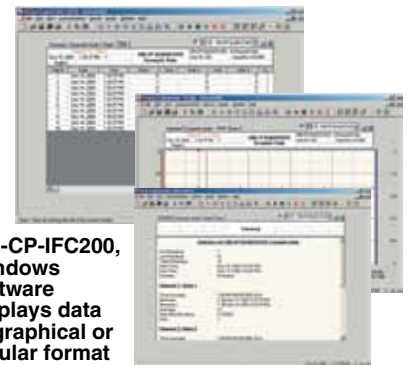
Memory: 52,484 state changes; 209,936 total readings; software configurable memory wrap

Real-Time Recording: Can be used with PC to monitor and record data in real-time

Calibration: Digital calibration through software

Calibration Date: Automatically recorded within device

Power: 9V lithium or alkaline battery included; user replaceable



OM-CP-IFC200, Windows software displays data in graphical or tabular format

Battery: 1 year typical

Data Format: Date and time stamped state changes (on/off); engineering units specified through software

Time Accuracy: ± 1 minute/month (at 20°C, RS232 cable not in use)

Computer Interface: PC serial, or USB (interface cable required); 2400 baud

Software: XP SP3/Vista/7 and 8 (32 and 64-bit)

Operating Environment: -20 to 60°C (-4 to 140°F)
0 to 95% RH non-condensing

Dimensions: 89 H x 112 W x 26 mm D (3.5 x 4.4 x 1.0")

Weight: 370 g (13 oz)

To Order	
Model No.	Description
OM-CP-QUADSTATE	4-channel state data logger
OM-CP-IFC200	Windows software and 1.8 m (6') USB interface cable
OM-CP-BAT103	Replacement 9 V lithium battery
OM-CP-CONNECTOR-2	Replacement 2 position terminal block connector

Comes complete with 9V lithium battery. Operator's manual is included with the OM-CP-IFC200 Windows software and USB cable (required to operate the data logger and sold separately).

To order data loggers with optional 120 Vac power, add suffix "-AC" to model number, for additional cost.

Ordering Example: OM-CP-QUADSTATE 4 channel state data logger and OM-CP-IFC200 Windows software with USB cable.