

## Event Data Logger Part of the NOMAD® Family

### OM-CP-EVENT101A



- ✓ Interfaces to Tipping Bucket Rain Gages and Other Devices with TTL Pulse, Contact Closure Output
- ✓ 10 Year Battery Life
- ✓ 4 Hz Reading Rate
- ✓ Multiple Start/Stop Function
- ✓ Ultra High Speed Download
- ✓ Memory Wrap
- ✓ Battery Life Indicator
- ✓ Optional Password Protection
- ✓ Field Upgradeable

The OM-CP-EVENT101A is part of a new series of low cost, state-of-the-art data logging devices. The OM-CP-EVENT101A offers a 10 year battery life, 4 Hz reading rate, a multiple start/stop function, ultra-high speed download capability, 406,323 reading storage capacity, optional memory wrap, battery life indicator, optional password protection and more.

The OM-CP-EVENT101A senses input transitions or contact closures from external sources such as transducers or pulse state initiators (gas, water and electric meters) and record the time that a particular event has occurred. Once activated, the data logger senses and records transition or state changes at the input. Its real-time clock ensures that all data is time and date stamped. This is ideal for recording events. The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged. The small size of these devices allows them to fit almost anywhere.

Data retrieval is simple. Simply plug it into an available USB 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. The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged.



OM-CP-EVENT101A shown larger than actual size.

The OM-CP-EVENT101A was designed with our customers in mind. There are free firmware upgrades for the life of the product so that data loggers already deployed in the field can grow with new technological developments. Units do not need to be returned to the factory for upgrades. The user can do this automatically from any PC.

### Specifications

#### Input Connection:

Removable screw terminal

**Input Range:** 0 to 30V

**Input Low:** <0.4V

**Input High:** >2.8V

**Internal Weak Pull-Up:** <60  $\mu$ A

**Input Impedance:** >60 k $\Omega$

**Minimum Input Active**

**(Low) Time:** 10 Microseconds

**Time Resolution:** 4 Hz (reading rate selectable in software)

**Reading Rate:**

4 Hz to 1 every 24 hours

**Memory:** 406,323 readings; software configurable memory wrap

**Memory Wrap Around:** Yes

**Start Modes:**

- Immediate start
- Delay start up to 18 months
- Multiple pushbutton start/stop

**Stop Modes:**

- Manual through software
- Timed (specific date and time)

**Multiple Start/Stop Mode:**

Start and stop the device multiple times without having to download data or communicate with a PC

### Multiple Start/Stop Mode Activation:

#### To Start the Device:

Press and hold the pushbutton for 5 seconds, the green LED will flash during this time. The device has started logging

#### To Stop the Device:

Press and hold the pushbutton for 5 seconds, the red LED will flash for 3 seconds and then the green LED will flash for two seconds. The device has stopped logging

**Real Time Recording:** The device may be used with PC to monitor and record data in real-time

### LED Functionality:

#### Green LED Blinks:

10 second rate to indicate logging; 15 second rate to indicate delay start mode

#### Red LED Blinks:

10 second rate to indicate low battery and/or full memory

### Password Protection:

An optional password may be programmed into the device to restrict access to configuration options. Data may be read out without the password

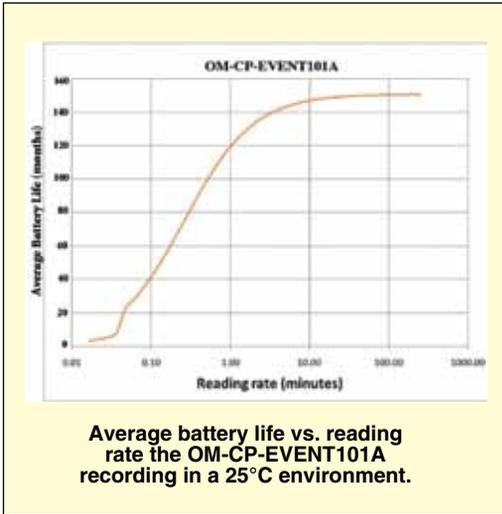
### Engineering Units:

Native measurement units can be scaled to display measurement units of another type such as on/off, open/closed or rainfall

### Battery Type:

3.6V lithium battery (included); user replaceable

**Battery Life:** 10 years typical, dependent upon frequency and duty cycle



**OM-CP-WATERBOX101A, optional weatherproof enclosure for data logger, shown smaller than actual size.**

**Time Accuracy:**  
±1 minute/month at 20°C (68°F), stand alone data logging

**Computer Interface:**  
USB (interface cable required); 115,200 baud

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

**Operating Environment:**  
-40 to 80°C (-40 to 176°F), 0 to 95% RH non-condensing

**Dimensions:**

**Data Logger:**  
36 H x 56 W x 16 mm D  
(1.4 x 2.2 x 0.6")

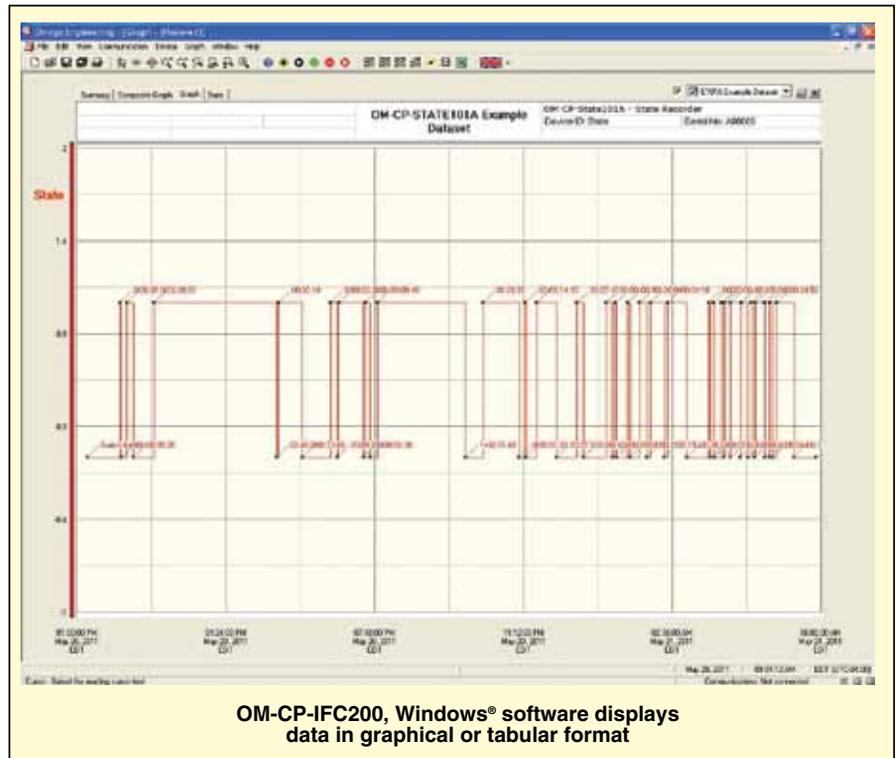
**Waterbox Enclosure:**  
74 H x 148 W x 39 mm D  
(2.9 x 5.8 x 1.5")

**Weight:** 24 g (0.9 oz)

**Materials:**

**Data Logger:** ABS Plastic

**Waterbox Enclosure:**  
Black anodized aluminum



## To Order

Model No.	Description
OM-CP-EVENT101A	Event data logger
OM-CP-IFC200	Windows software and 1.8 m (6') USB interface cable
OM-CP-BAT105	Replacement 3.6V lithium battery
OM-CP-WATERBOX101A	Weatherproof NEMA 4 (IP65) enclosure for data logger
OM-CP-WATERBOX101A-KIT	Maintenance kit for OM-CP-WATERBOX101A

Comes complete with 3.6V lithium battery. USB cable and operator's manual are included with the **OM-CP-IFC200** Windows software (required to operate the data logger and sold separately).

**Ordering Example:** OM-CP-EVENT101A, event data logger and OM-CP-IFC200, Windows software.