

## Wind Speed Data Logger Part of the NOMAD® Family

### OM-CP-WIND101A-KIT Series



- ✓ Durable Housing for Logger
- ✓ 3-Cup Anemometer
- ✓ 0 to 100 MPH (0 to 160 KPH) Range
- ✓ 0.085 MPH Resolution at a 10 Second Sampling Rate
- ✓ ±2.5% Calibrated Accuracy over 10 to 100 MPH (16 to 160 KPH) Range
- ✓ 10 Year Battery Life
- ✓ 1 Second Reading Rate
- ✓ Multiple Start/Stop Function
- ✓ Ultra High Speed Download
- ✓ 500,000 Reading Storage Capacity
- ✓ Battery Life Indicator
- ✓ Optional Password Protection
- ✓ Field Upgradeable

The OM-CP-WIND101A is a complete system to accurately measure and record wind speed. This low cost wind speed recording system comes complete with a data logger, weatherproof enclosure, a three-cup anemometer and all the necessary cabling to quickly get up-and-running.

The logger can record up to 500,000 readings and 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.

The device can be started and stopped directly from a computer using our user-friendly software. Data retrieval is simple. Simply plug it into an available USB port and our user-friendly software does the rest.



OM-CP-WIND101A-KIT, shown smaller than actual size.

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.

#### Specifications

##### Measurement Range:

0 to 100 mph (0 to 45 m/s)

**Resolution:** 0.085 mph at 10 second reading interval

**Accuracy:** ±2.0 mph from 0 to 10 mph; ±2.5% of reading from >10 to 100 mph

**Starting Threshold:** 1.75 mph

**Reading Rate:** 1 reading every second to 1 every 24 hours

**Memory:** 500,000 readings; software configurable memory wrap 250,000 readings in multiple start/stop

**Memory Wrap Around:** Yes

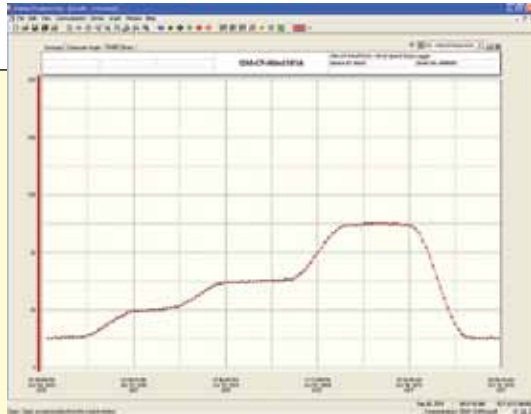
**Start Modes:** Immediate start, delay start up to 18 months, multiple pushbutton start/stop

##### Stop Modes:

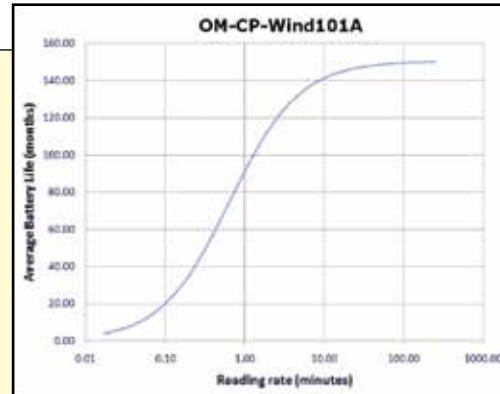
Manual through software, timed (specific date and time)

##### Multiple Start/Stop Mode:

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



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



Average battery life vs. reading rate of OM-CP-WIND101A recording in a 25°C environment.

## 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 during this time. 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

**Red LED Blinks:** 10 second rate to indicate low battery and/or full memory; 1 second rate to indicate an alarm condition

**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:** MPH, KPH, M/S, KNOTS (software selectable)

**Battery Type:** 3.6V lithium battery (included); user replaceable

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

**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)

## Anemometer Operating Environment:

-55 to 60°C (-67 to 150°F); 0 to 100%RH

**Operating Environment:** -20 to 60°C (-4 to 150°F), 0 to 100% RH non-condensing

**IP Rating:** IP65

**Anemometer Dimensions:** 54 H x 192 mm D (2.1 x 7.5")

## Dimensions:

### Data Logger:

74 H x 148 W x 39 mm D (2.9 x 5.8 x 1.5")

### Enclosure:

93 H x 62 W x 24 mm D (3.7 x 2.5 x 0.9")

**Weight:** 513 g (18.1 oz)

**Material:** ABS plastic

## To Order

Model No.	Description
OM-CP-WIND101A-KIT	Wind speed recording system. Includes 3-cup anemometer with sensor connection cable 7.6 m (25'), data recorder, weatherproof enclosure and the OM-CP-IFC200 package which includes the Windows software and 1.8 m (6') USB interface cable
OM-CP-WIND101A-KIT-50	Wind speed recording system. Includes 3-cup anemometer with sensor connection cable 15 m (50'), data recorder, weatherproof enclosure and the OM-CP-IFC200 package which includes the Windows software and 1.8 m (6') USB interface cable
OM-CP-WIND101A-KIT-100	Wind speed recording system. Includes 3-cup anemometer with sensor connection cable 30.5 m (100'), data recorder, weatherproof enclosure and the OM-CP-IFC200 package which includes the Windows software and 1.8 m (6') USB interface cable
OM-CP-WIND101A-KIT-150	Wind speed recording system. Includes 3-cup anemometer with sensor connection cable 46 m (150'), data recorder, weatherproof enclosure and the OM-CP-IFC200 package which includes the Windows software and 1.8 m (6') USB interface cable
OM-CP-BAT105	Replacement 3.6V lithium battery
OM-CP-WATERBOX101A	Replacement 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 and OM-CP-IFC200 package which includes the Windows software, operator's manual and 1.8 m (6') USB interface cable.

**Ordering Example:** OM-CP-WIND101A-KIT, wind speed recording system.