

# vortex™ Anemometers with "D2" Rotor

For Models with **Cateye Velo8** or **Velo9** Display



Thank you for purchasing a Vortex Anemometer!

**The unit is shipped calibrated in mph – you do not need to do anything but connect the display!**

However - if you should need to change the battery in the display, you will need to enter the proper "WS" for the unit to display the right wind speed. The WS is **114**.

For **kph**, use 114 but select kph during the setup process. For **knots**, use a WS of **100**. This adds 1% to the overall error since the WS should be 99, but the Velo8/9 cannot take a number smaller than 100.

**See enclosed printed instructions or HELP on [inspeed.com](http://inspeed.com) for setup instructions.**

The Vortex is intended for casual use and should provide wind speed data within approximately 4% of reading from ~10 mph to ~50 mph or  $\pm 1$ mph. The Vortex will register speeds up to and over 100 mph, and we believe it to be accurate at those speeds, but it has not been verified at speeds above 50 mph. See [inspeed.com](http://inspeed.com) for detailed specs. The calibration of the Vortex is NOT affected by the length of the wire – use as much as you want! Any wire will work!

**Replacement batteries** are available in stores or from Inspeed (model number CR2032).

**To remove the display** from the bracket: simply push down on the little detent below the display and slide it up and off. See the Cateye booklet for details.

The display will turn on automatically and stay on as long as the rotor is turning. To conserve the battery, remove the display from the bracket or disconnect the wind sensor; this will cause the display to go to "sleep". Removal from the bracket does not affect calibration.

### **IMPORTANT NOTE ABOUT AVERAGE WIND SPEED:**

The display will only record and average when the wind is

blowing. It stops recording below approximately 1 mph. That means that if the wind blows for 2 hours at 20 mph and 2 hours at zero, the average shown will be 20, not 10! Please keep this in mind.

There is a work-around: reset the odometer and write down the time and date. At any point, note the odometer ("wind miles"), and divide by the actual number of hours since reset. This will produce actual average wind speed since the last reset.

### **Installation & Operation**

**PLEASE TEST IT BEFORE YOU INSTALL IT ☺**

Connect the display and spin the rotor to make sure everything is working **FIRST THING**.

Mount it as high up as you can in order to get into clean air. Connect the display (there is no polarity for the unterminated wire models), stick the display anywhere!

Note that the display is water resistant - NOT waterproof - and should NOT be left outdoors for extended periods of time. The rest is simply a matter of displaying the information you want to see on the display: current speed, max speed, average speed, etc. For detailed instructions on how to use the display, refer to the instruction booklet enclosed.

### **Maintenance**

The Vortex wind sensor is not hard to clean, as follows:

- Remove the two screws that hold the plate under the Vortex body
- Carefully remove (pry off) the circlip on the bottom of the shaft (good luck finding it if you drop it!)
- Remove the shaft and rotor assembly and clean thoroughly – do not oil – graphite (dry) lube only.
- Reassemble in reverse order.



Hand-Held



Pole Mount  
(any length wire)



"Flex Wire"  
(only 25 feet)



Magnetic Mount



Window Mount

