

Wind Speed and Direction

General Purpose Wind Sensors

The WeatherPort anemometer and vane are economical sensors suitable for a wide range of wind measurement applications. A combination of injection molded thermoplastic, anodized aluminum, and stainless steel parts contribute to reliable operation in adverse environments.

These sensors are easy and inexpensive to maintain. The combination three cup anemometer and wind vane units utilize an in-line configuration, eliminating the need for a crossarm.

These general purpose wind and direction sensors can be configured to meet your needs. They are available as separate sensors or combined. Cables can be ordered in a wide range of lengths.

These anemometers product a series of output pulses having a frequency directly proportional to wind speed. Wind direction is measured by a balanced vane coupled to a 20k ohm conductive plastic potentiometer. With a constant excitation voltage of less then 15 volts, the output from the wiper arm is proportional to the wind azimuth angle.

Ordering Information

200-WS-01	Wind Speed Sensor
200-WS-02	Wind Speed and Direction Sensor
200-WS-03	Wind Speed, Direction Sensor, & Temperature
200-WS-04	Wind Direction Sensor
200-WS-05	High Sensitivity Wind Speed and Direction Sensor



Technical Specifications

200-WS-01 Wind Speed Sensor:

Turning Radius:	4.25"
Speed Threshold:	0.8 mph
Transducer Type:	magnetic reed switch
Speed Constant:	1.25 mph = 1pps
Measurement range:	0 – 99 mph
Accuracy:	0.5 mph or $\pm 3\%$
Size:	4.5" H x 8.5" W
Mounting:	1" o.d. pipe
Cable:	40', 2 conductor, 24 AWG
Weight/shipping:	1lb/2lbs

200-WS-04 Wind Direction Sensor:

Azimuth Accuracy:	$\pm 3^\circ$
Transducer:	20K Ω potentiometer
Potentiometer Gap:	5"
Distance Constant:	1.5' (2.6' High Sensitivity)
Damping Ratio:	0.4
Vane Threshold:	1.2 mph (0.8 mph High Sensitivity)
Measurement Range:	0 - 360° mech, 0 - 355° elec.
Resolution:	< 1°
Time Constant:	2 sec
Turning Radius:	6" (12.5 " High Sensitivity)
Size:	12.5" H x 8" W
Mounting:	1" o.d. pipe
Cable:	40', 3 conductor, 24 AWG
Weight/shipping:	1 lb/2lbs