

# Wind Direction Sensor

**Model: SEN-WD**

## Description

The Model SEN-WD is the electronic wind vane represents the latest technology in wind sensing: a balanced wind direction vane with a near-zero friction bearing and a high accuracy magnetic angle sensor to provide precision wind direction. Unique locking feature allows you to easily set "North" regardless of mounting orientation.

## Features:

- Zero dead band. Many potentiometer wind vanes have a dead spot of several degrees. This device has no dead band at all.
- Near-zero friction. Since the magnet is not in contact with the Hall sensor, there is no friction from the sensor.
- Virtually infinite life. Unlike potentiometers that wear out, the magnetic Hall sensor is non-contacting and should theoretically last forever.



Range Full 360 degrees , zero deadband  
 Accuracy +/-0.3 to 0.5% of signal range  
 Resolution 12 bit or 0.025 degrees

Cable length: 1.5m (*extendable at extra cost*)

Input: 5 VDC, 10-28 VDC, 30-60 VDC

Output: Ratio-metric: 5% to 95% of 5V input  
 Voltage: 0 to 1, 2.5, 5, 10 V  
 Current: 4-20mA, 0-20mA  
 RS485-MODBUS  
 RS232-ASCII

## Applications:

- Windrose assessment
- Meteorological studies

## Dimensions:

- Directional Vane approximately 8 inches
- Overall height 205mm with aluminum mounting bracket

## Material:

- **Vane:** one piece injection-molded black polycarbonate
- **Body:** housing is black ABS plastic
- **Shaft:** beryllium copper, fully hardened
- **Bearing:** modified Teflon, self-lubricating

## Ordering Guide:

Output	Model No.
1.For Ratiometric O/P:	<b>SEN-WD-R</b>
2.For Voltage O/P:	<b>SEN-WD-V-x</b> (x stands range; 1, 2.5, 5, 10 )
3.For Current O/P:	<b>SEN-WD-C-x</b> (x stands range; 4-20, 0-20)
4.For RS485 O/P:	<b>SEN-WD-RS485</b>
5.For RS232 ASCII O/P:	<b>SEN-WD-RS232</b>

Please mention input Voltage range information along with your enquiry / Purchase order



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Represented by:

**\*\* Drawing & specifications are subjected to change at any time without prior notice as per manufacturing suitability.**