

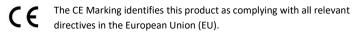
# 200-03002 Wind Sentry

The **200-03002x Wind Sentry Anemometer and Vane** are professional quality wind sensors suitable for a wide range of wind measurement applications. These moderately priced sensors are of thermoplastic construction providing excellent corrosion resistance, low sensor weight, and minimal parts count.

Rotation of the anemometer's three hemispherical cups produces an AC sine wave with frequency linearly proportional to wind speed. Wind direction is measured by a 10k ohm precision potentiometer. Model 200-03002 outputs raw signals, while amplified versions output voltage (0-1V, 0-5V) or current (4-20 mA).

### **Features**

- Lightweight, durable plastic construction
- Speed: 0-50 m/s (112 mph), Azimuth: 360° mechanical
- Includes crossarm and junction box for electrical connections
- Anemometer and vane available separately
- Mounts to 1.34" (34 mm) mast





Specifications	Wind Speed	Wind Direction	
Range	0 to 50 m/s (112 mph)	360° mechanical, 352° electrical (8° open)	
Accuracy	± 0.5 m/s (1.1 mph)	±5°	
Threshold*	1.1 m/s (2.5 mph)	1.3 m/s ( 2.9 mph) at 10° displacement	
Distance Constant*	2.3 m (7.5 ft.) for 63% recovery	Delay distance: 0.5 m (1.6 ft), Damping ratio: 0.2	
Transducer Type	Stationary coil, 1300 Ohm nominal DC resistance	10KΩ conductive plastic potentiometer, 1.0%	
		linearity, life expectancy 50 million revolutions.	
Transducer Output	AC sine wave, 1 cycle per cup wheel revolution	Ratiometric voltage (15 Vdc excitation max)	
	1800 rpm (30 Hz) = 22.8 m/s (51.0 mph)	Nationiethe voltage (15 vac excitation max)	
Sensor	$\emptyset$ 4.7 in (12 cm) cup wheel assembly	Balanced vane, 16 cm (6.3 in) turning rad.	
	Ø 1.34 in (40 mm) hemispherical cups	Balanced valle, 10 cm (0.5 m) turning rad.	
Power Requirement	Voltage output models: 8 to 24 VDC (5mA @ 12 VDC)		
	Current output models: 8 to 30 VDC (40mA max)		
Dimensions	Overall Height: 32 cm (12.6 in)		
	CrossarmLength: 8 cm (11.0 in) between instrument centers.		
Weight / Shipping	0.7 kg (1.5 lbs) / 1.3 kg (3 lbs)		

<sup>\*</sup>Nominal values determined in accordance with ASTM standard procedures.

## Ordering Information (speed and direction)

200-03002	Wind Sentry WS/WD, AC Pulsed/Pot Output, no cable
200-03002Lx	Wind Sentry WS/WD, 4-20 mA Output, no cable
200-03002Vx	Wind Sentry WS/WD, 0-1 Vdc Output, no cable
200-03002Vx5	Wind Sentry WS/WD, 0-5 Vdc Output, no cable
200-03002Vx5	Wind Sentry WS/WD, 0-5 Vdc Output, no cable

#### Ordering Information (speed)

200-03102	Wind Sentry WS, AC Pulsed Output, no cable
200-03102Lx	Wind Sentry WS, 4-20 mA Output, no cable
200-03102Vx	Wind Sentry WS, 0-1 Vdc Output, no cable
200-03102Vx5	Wind Sentry WS, 0-5 Vdc Output, no cable
330-0524	Cable, 5-conductor, 24 AWG, shielded (per foot)

### Replace "x" with desired wind speed scale:

replace x with aconce	a willa speca scale.
0-50 M/S	ADD SUFFIX "M"
0-100 MPH	ADD SUFFIX "P"
0-100 KNOTS	ADD SUFFIX "N"
0-200 KM/HR	ADD SUFFIX "K"



200-03102 Wind Speed Only