

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



The CE Marking identifies this product as complying with all relevant directives in the European Union (EU).



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 1800 rpm (30 Hz) = 22.8 m/s (51.0 mph)	Ratiometric voltage (15 Vdc excitation max)
Sensor	Ø 4.7 in (12 cm) cup wheel assembly Ø 1.34 in (40 mm) hemispherical cups	Balanced vane, 16 cm (6.3 in) 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)	

*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

Replace "x" with desired wind speed 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"

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)



200-03102
Wind Speed Only