

The Model 03001 Wind Sentry Anemometer and Vane are Professional quality sensors Suitable for a wide range of wind measurement applications. These economically priced sensors provide excellent sensitivity, corrosion resistance, and minimal parts count for easy maintenance.

The anemometer uses three lightweight hemispherical cups to measure wind speed. Cup wheel rotation produces an AC frequency that is linearly proportional to wind speed.

The vane employs a balanced vane assembly with vane position sensed by a long life precision potentiometer.

Precision stainless steel ball bearings are used throughout.

The Model 03001 Wind Sentry Anemometer and Vane (top) set includes crossarm with output lead wires and mounting for standard 1 inch pipe.

Model 03101 Wind Sentry Anemometer (second from top) is available separately with output lead wires and mounting for standard 1 inch pipe.



Specifications

Range:

Wind Speed - 0 to 50 m/s
Azimuth- 360° mechanical, 352° electrical, 8° open

Accuracy:

Wind Speed- ± 0.5 m/s
Wind Direction - $\pm 5^\circ$

Threshold:*

Cup Anemometer- 1.1 m/s
Vane- 1.3 m/s (2.9 mph) at 10°

Dynamic Response:*

Cup wheel distance constant - 2.3 m (7.5 ft)
Vane delay distance - 0.5 m (1.6 ft)
Damping ratio - 0.2

Signal Output:

Wind speed- AC sine wave, 1 pulse per rev.
1800 rpm (30 Hz) = 22.8 m/s (51.0 mph)
Wind direction- Analog DC voltage from 10KW conductive plastic potentiometer, 1.0% linearity, life expectancy 50 million revolutions.

Power Requirement:

Potentiometer excitation-15 VDC maximum

Dimensions:

Overall height- 32 cm (12.6 in)
Crossarm length- 28 cm (11.0 in) between instrument centers.
Vane length- 22 cm (8.7 in)
Cup wheel diameter- 12 cm (4.7 in)
Crossarm mounting- 34 mm (1.34 in) diameter (standard 1 inch pipe)

Weight:

Shipping weight-1.3 kg (3 lbs)

**Nominal values determined in accordance with ASTM standard procedures.*



Complies with applicable CE directives. Specifications subject to change without notice.

Ordering Information

03001 WIND SENTRY ANEMOMETER AND VANE

03101 WIND SENTRY ANEMOMETER (with mounting bracket)



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