

# MODEL 5712 Wind Monitor

- High Performance
- Low Aspect Ratio
- Corrosion Resistant Construction
- Lightweight, Compact Size



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## DESCRIPTION:

The Model 5712 Wind Monitor is a rugged, accurate wind sensor. The simple, lightweight corrosion-resistant construction makes it well suited for a wide range of wind measurement applications.

The Model 5712 uses a four blade helicoid propeller. The propeller rotation produces an AC voltage signal with a frequency directly proportional to wind speed. Slip rings and brushes are not used resulting in improved reliability and lower cost.

The wind direction sensor is a rugged, lightweight vane with a low aspect ratio to assure good fidelity in fluctuating wind conditions. The vane angle is sensed by a precision potentiometer housed in a sealed chamber. With a known excitation voltage applied to the potentiometer, the output signal is directly proportional to azimuth angle. An orientation ring is supplied for preserving wind direction reference when the 5712 is removed for maintenance.

## SPECIFICATIONS:

Wind Speed Range . . . . .	0-60 m/s (134 MPH)
Gust Survival Range . . . . .	98 m/s (220 MPH)
Azimuth . . . . .	360° Mechanical, 355° Electrical (5° open)
Wind Speed Accuracy . . . . .	±0.3 m/s (0.6 MPH)
Wind Direction Accuracy . . . . .	±3 Degrees
Propeller Sensitivity . . . . .	1.1 m/s (2.4 MPH)
Vane Sensitivity . . . . .	0.5 m/s (0.1 MPH)
Signal Output . . . . .	3 Pulses per Revolution 1800 RPM (90 Hz) = 8.8 m/s, 456 Hz = 100mph (161 kmph)
Azimuth . . . . .	Analog DC Voltage from Conductive Plastic Potentiometer - Resistance 10K, Linearity 0.25%, Life Expectancy 50 Million Revolutions.
Overall Size . . . . .	14.6" Height x 21.7" Length
Propeller . . . . .	7" Diameter
Mounting . . . . .	1.34" Diameter; 1" Pipe
Weight . . . . .	2.2 Pounds

## ORDERING GUIDE:

Model 5712 . . . . . Wind Monitor

## OPTIONAL:

Model 5102 . . . . .	Extra Cable, 5 Conductor (1 Foot Increments)
Model 5712-1 . . . . .	Mounting Bracket
Model 3206-1 . . . . .	Wind Connector
Model 3206-7 . . . . .	Wind Gust Feature

ACCURACY YOU CAN COUNT ON

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