



wind

Heavy Duty Wind Sensor



Model 05108
Wind Monitor HD



YOUNG

Model 05108 Wind Monitor HD

The Wind Monitor HD has important features that greatly extend the service life of this popular sensor.

The reliability of the Wind Monitor sensor is well known. The sensitive vane and propeller combination has proven effective for countless applications in many disciplines. The Wind Monitor-HD (Heavy Duty) model is designed to address the most common concern of mechanical wind sensors: bearing replacement. The HD utilizes extremely long-wearing, oversize ceramic bearings to increase service life many times longer than standard stainless steel bearings. In addition to being more wear-resistant, ceramic is resistant to corrosion in environments that are hostile to steel bearings.

The Wind Monitor-HD also has oversized propeller shaft, high pitch propeller and locking propeller nut, all features that will further enhance long-term reliability of the sensor.

For specific applications, separate signal conditioning is available. **Model 05608C Wind Sensor Interface** offers calibrated voltage outputs for wind speed and direction. **Model 05638C Wind Line Driver** provides calibrated 4-20 mA current signals for each channel. Each circuit is supplied in a weatherproof junction box with mounting hardware.



Ceramic bearings are long-lasting and corrosion resistant

Specifications

Range:

Wind Speed: 0-100 m/s (224 mph)
 Wind Direction: 0-360 degrees

Accuracy:

Wind Speed: ± 0.3 m/s (0.6 mph) or 1% of reading
 Wind Direction: ± 3 degrees

Threshold:

Propeller: 1.0 m/s (2.2 mph)
 Vane: 1.0 m/s (2.2 mph)

Power Requirement:

Potentiometer excitation: 15 VDC max

Signal Output:

Wind speed: magnetically induced AC voltage, 3 pulses per revolution, 1 rev = 50 cm air passage
 Wind direction: Analog DC voltage from conductive plastic potentiometer-resistance 10K Ω , 0.25% linearity, life expectancy 50 million revolutions.

Operating Temperature:

-50 to +60°C

Dimensions:

Overall height: 40 cm
 Overall length: 57cm
 Propeller: 18 cm Dia x 50 cm pitch
 Weight: 1.0 kg
 Mounting: 34 mm (1.34 in) diameter (1 inch IPS)

MODEL 05608C 0-5VDC outputs

Power requirement:

8-24 VDC (5 mA @12 VDC)

Operating Temperature:

-50 to +60°C

Output signal:

WS: 0-5.00 VDC (0-100 m/s)
 WD: 0-5.00 VDC (0-360 deg)

MODEL 05638C 4-20 mA outputs

Power requirement:

12-30 VDC (40 mA max.)

Operating Temperature:

-50 to +60°C

Output signal:

WS: 4-20 mA (0-100 m/s)
 WD: 4-20 mA (0-360 deg)

Ordering Information

	MODEL
WIND MONITOR HD — 3M CABLE PIGTAIL	05108
WIND MONITOR HD — 8M CABLE PIGTAIL	05108-8M
WIND MONITOR HD — 12M CABLE PIGTAIL	05108-12M
Sensor Cable (6 CONDUCTOR SHIELDED)	18721
WIND SENSOR INTERFACE (0-5.00VDC).....	05608C
WIND LINE DRIVER (4-20 MA).....	05638C



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CE Complies with applicable CE directives.
 Complies with EN60945

Specifications subject to change without notice.