

wind

*Heavy Duty Wind Sensor*



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.



*Ceramic bearings are long-lasting and corrosion resistant*

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.

## Specifications

### Range:

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

### Accuracy:

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

### Threshold:

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

### 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 $\Omega$ , 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:

8-30 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)

 Complies with applicable CE directives.  
Complies with EN60945

*Specifications subject to change without notice.*

## Ordering Information

## MODEL

<b>WIND MONITOR HD – 3M CABLE PIGTAIL</b> .....	<b>05108</b>
<b>Sensor Cable (6 CONDUCTOR SHIELDED)</b> .....	<b>18721</b>
<b>WIND SENSOR INTERFACE (0-5.00VDC)</b> .....	<b>05608C</b>
<b>WIND LINE DRIVER (4-20 MA)</b> .....	<b>05638C</b>



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