



# 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 longwearing, 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



Ceramic bearings are long-lasting and corrosion resistant

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.

# Ordering InformationMODELWIND MONITOR HD - 3M CABLE PIGTAIL05108WIND MONITOR HD - 8M CABLE PIGTAIL05108-8MWIND MONITOR HD - 12M CABLE PIGTAIL05108-12MSensor Cable (6 CONDUCTOR SHIELDED)18721WIND SENSOR INTERFACE (0-5.00VDC)05608CWIND LINE DRIVER (4-20 MA)05638C

# **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 (2.2mph)

#### **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:

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)

Complies with applicable CE directives.
Complies with EN60945

Specifications subject to change without notice.

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