

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, oversized 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: 57 cm
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

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



R.M. YOUNG COMPANY
2801 Aero Park Drive
Traverse City, Michigan 49686 USA
TEL: (231) 946-3980 FAX: (231) 946-4772
E-mail: met.sales@youngusa.com
Web Site: www.youngusa.com

GWU-Umwelttechnik GmbH

Bonner Ring 9
50374 Ertstadt, Germany
Fon +49.(0) 22 35.9 55 22-0
Fax +49.(0) 22 35.9 55 22-99
info@gwu-group.de
www.gwu-group.de



Copyright © 2012 R.M. Young Company, Printed in U.S.A. 12/12