



**Met One  
Instruments**

**013** Wind Speed Sensor

**023** Wind Direction Sensor

*Specialized Wind Sensors*

The 013 Wind Speed Sensor and 023 Wind Direction Sensor have been specifically designed to accurately and reliably measure wind velocity and direction under the most adverse environmental conditions. They are particularly useful in remote, unattended monitoring applications where they are likely to encounter high winds and/or heavy icing conditions. Only the best corrosion resistant material, such as stainless steel and anodized aluminum, are used in their production.

**FEATURES**

*013 Wind Speed Sensor*

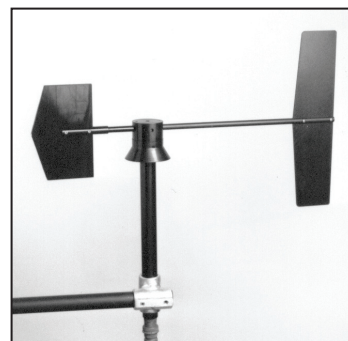
- Low starting threshold
- Stainless steel ball bearings for greatest accuracy and operating life
- Built-in ice skirt allowing operation with a 2" (5.1 cm) ice load
- Robust aluminum cup assembly
- Sealed magnetic reed switch

*023 Wind Direction Sensor*

- Low starting threshold of 1.5 mph (.67 m/s)
- Unique "Mechanical Average System" reduces sensor wear
- Built-in alignment and calibration fixture
- Built-in ice skirt allowing operation with a 2" (5.1 cm) ice load
- Slotted shaft coupler for increased sensor life



*013 Wind Speed Sensor*



*023 Wind Direction Sensor*

**SPECIFICATIONS**

*013 Wind Speed Sensor*

**PERFORMANCE CHARACTERISTICS**

Range:	0 - 150 mph (67 m/s)
Starting Threshold:	1.0 mph (0.45 m/s)
Accuracy:	±0.25 mph (0.11 m/s) or 2%
Distance Constant:	Less than 15 ft (4.5 m)
Operating Range:	-50°C to +70°C (-58°F to +158°F)
Contact Rating:	10 mA maximum

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**013** Wind Speed Sensor

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## SPECIFICATIONS

### *013 Wind Speed Sensor (continued)*

#### PHYSICAL CHARACTERISTICS

Weight: 14 oz (.4 kg)  
Finish: Black anodized aluminum

#### CABLE & MOUNTING

PN 1805 Cable Assembly; specify length in feet or meters  
Mounting: PN 191 Crossarm Assembly

### *023 Wind Direction Sensor*

#### PERFORMANCE CHARACTERISTICS

Electrical Range: 0° - 360°  
Maximum Wind Speed: 150 mph (67 m/s)  
Accuracy: ±10° standard  
Optional ±5° order PN 023-0DEG  
Delay Distance: 15 ft (4.5m)  
Damping Ratio: .3  
Potentiometer Specifications  
    Sand, dust, fungus: MIL-E-5272  
    Salt spray: MIL-E-12934  
Resistance Value: 10 K ohms  
Operating Range: -50°C to +70°C (-58°F to +158°F)

#### PHYSICAL CHARACTERISTICS

Weight: 1.5 lbs (.68 kg)  
Finish: Black anodized aluminum

#### CABLE & MOUNTING

PN 1806 Cable Assembly; specify length in feet or meters  
Mounting: PN 191 Crossarm Assembly (contains orientation lock)

*Specifications are subject to change at any time.*

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