



**Met One  
Instruments**

**014A** Wind Speed Sensor

**024A** Wind Direction Sensor

*General Use Wind Sensors*

The 014A Wind Speed Sensor and 024A Wind Direction Sensor are accurate, durable and economical instruments, suitable for a wide range of wind study applications. They are designed for long term unattended operation in most environments.

The sensors use a quick-connect sensor cable which may extend hundreds of feet without affecting measurement performance. The potentiometer meets stringent military specifications for sand, dust, salt spray and fungus resistance.

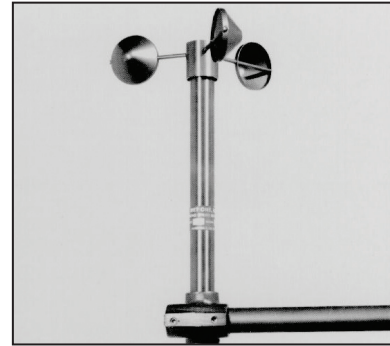
**FEATURES**

*014A Wind Speed Sensor*

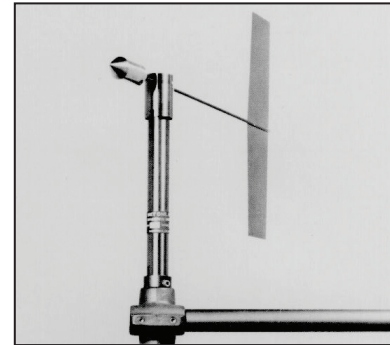
- Low starting threshold
- Corrosion resistant stainless steel and aluminum construction
- Sealed magnetic reed switch for maximum reliability
- Digital or analog measurement ability
- Aluminum or Lexan cups available

*024A Wind Direction Sensor*

- Precision wire-wound potentiometer
- Built-in alignment and calibration fixture
- Digital or analog measurement ability
- Aluminum or Lexan cups available



*014A Wind Speed Sensor*



*024A Wind Direction Sensor*

**SPECIFICATIONS**

*014A Wind Speed Sensor*

**PERFORMANCE CHARACTERISTICS**

Range:	0 - 100 mph (45 m/s)
Starting Threshold:	1.0 mph (0.45 m/s)
Accuracy:	±0.25 mph (± 0.11 m/s) or 1.5% FS
Distance Constant Standard:	Less than 15 ft (4.5 m) – Metal Cup
Operating Range:	-50°C to +70°C (-58°F to +158°F)
Contact Rating:	10 mA maximum

**PHYSICAL CHARACTERISTICS**

Weight:	11 oz (.31 kg)
Finish:	Clear anodized aluminum

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**014A** Wind Speed Sensor

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## SPECIFICATIONS

### *014A Wind Speed Sensor (continued)*

#### CABLE & MOUNTING

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

#### ALTERNATE WIND SPEED SENSOR

014A-1 Fast Response Model:  
Distance Constant: Less than 5 ft. (1.5 m) – Lexan cup (meets EPA specifications)

### *024A Wind Direction Sensor*

#### PERFORMANCE CHARACTERISTICS

Range: 0° - 360°  
Starting Threshold: 1.0 mph (0.45 m/s)  
Accuracy: ±5°  
Delay Distance: Less than 5 ft (1.5 m)  
Damping Ratio: 0.25 (aluminum vane)  
Potentiometer  
    Sand, dust, fungus: MIL-E-5272  
    Salt spray: MIL-E-12934  
Electrical Range: 0° - 360°  
Operating Range: -50°C to +70°C (-58°F to +158°F)

#### PHYSICAL CHARACTERISTICS

Weight: 1 lb 2 oz (.45 kg)  
Finish: Clear anodized aluminum

#### CABLE & MOUNTING

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

#### ALTERNATE WIND DIRECTION SENSOR

024A-1 Fast Response Model:  
Damping Ratio: 0.4 (magnesium vane) (meets EPA specifications)

*Specifications are subject to change at any time.*

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