

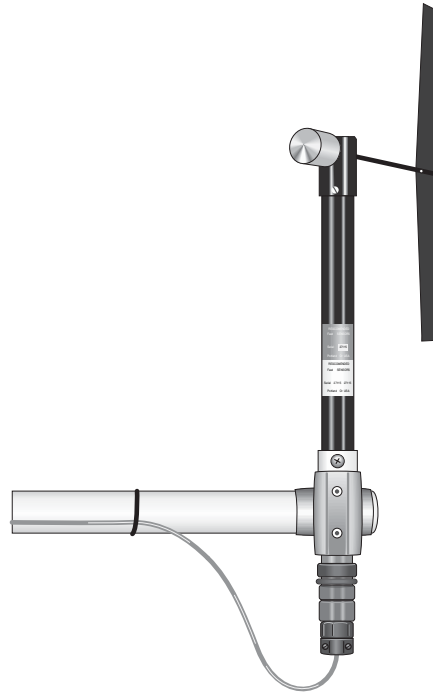
024A

Met One Wind Direction Sensor

The 024A Wind Vane measures wind direction from 0 to 360 degrees with a 5 degree accuracy specification. Wind direction is sensed with a potentiometer. With the precision excitation voltage from the datalogger applied to the potentiometer element, the output signal is an analog voltage that is directly proportional to the azimuth of the wind direction.

Mounting Options

The 024A can be attached to a CM202, CM204, or CM206 crossarm via a 17953 NU-RAIL fitting or a CM220 Right Angle Mounting Bracket. Alternatively, the 024A can be attached to the top of our stainless-steel tripods via the CM216 Sensor Mounting Kit. The CM216 extends 4 in. above the mast of a stainless steel CM110, CM115, or CM120 tripod.



Ordering Information

Wind Speed and Direction Sensor

024A-L Met One Wind Direction Sensor with user-specified cable length. Enter cable length, in feet, after the -L. A cable termination option is required (see below).

Cable Termination Options (choose one)

- PT** Cable terminates in stripped and tinned leads for direct connection to a datalogger's terminals.
- PW** Cable terminates in connector for attachment to a prewired enclosure.

Mounts

- CM220** Right Angle Mounting Bracket for attaching the 024A to a crossarm, such as a CM202, CM204, or CM206.
- 17953** 1-in. x 1-in. NU-RAIL Fitting for mounting the 024A to a crossarm, such as a CM202, CM204, or CM206.
- CM216** Sensor Mounting Kit for attaching the 024A to the top of a CM110, CM115, or CM120 stainless-steel tripod.

Specifications

- Operating Range:** 0 to 360 degrees
- Threshold:** 0.447 m/s (1.0 mph)
- Accuracy:** $\pm 5^\circ$
- Operating Temperature:** -50° to $+70^\circ\text{C}$
- Delay Distance:** < 1.5 m (5 ft.)
- Damping Ratio**
 - Standard: 0.25
 - Optional: 0.4
- Resolution:** 0.5°
- Potentiometer**
 - Sand, Dust, and Fungus: MIL-E-5272
 - Salt Spray: MIL-E-12934
 - Resistance: 0 to 10 k Ω
- Weight:** 450 g (1 lb.)
- Dimensions**
 - Overall Height: 13.3 in. (33.8 cm)
 - Overall Length: 17.6 in. (44.7 cm)
 - Tail Height: 12 in. (30.5 cm)
 - Tail Width: 3 in. (7.6 cm)

Recommended Cable Lengths

CM6	CM106	CM10	CM110	CM115	CM120	UT10	UT20	UT30
10 ft	13 ft	13 ft	13 ft	19 ft	24 ft	13 ft	24 ft	34 ft

These cable lengths assume the sensor is mounted atop the tripod/tower via a CM202 crossarm.

