



Reliable, Accurate Wind Direction

Compatible with all Campbell
Scientific dataloggers

Overview

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.

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 cross-arm, such as a CM202, CM204, or CM206.
- 17953** 1-in. x 1-in. NU-RAIL Fitting for mounting the 024A to a cross-arm, 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°
- › Threshold: 0.45 m s⁻¹ (1.0 mph)
- › Accuracy: ±5°
- › Operating Temperature Range: -50° to +70°C (assumes non-riming conditions)
- › Delay Distance: < 1.5 m (5 ft)
- › Damping Ratio: 0.25 (standard), 0.4 (optional fast response)
- › Resolution: 0.5°
- › Potentiometer
 - Sand, Dust, and Fungus: MIL-E-5272
 - Salt Spray: MIL-E-12934
 - Resistance: 0 to 10 kΩ
- › Weight: 450 g (1 lb)
- › Overall Height: 33.8 cm (13.3 in)
- › Overall Length: 44.7 cm (17.6 in)
- › Tail Height: 30.5 cm (12 in)
- › Tail Width: 7.6 cm (3 in)

