



## Reliable, Accurate Wind Direction

Compatible with most Campbell Scientific data loggers

### Overview

The 024A, manufactured by Met One, is a wind vane that measures wind direction only. It can be used in tandem with the 014A Wind Speed Sensor. However, in many situations,

customers prefer to use the 034B, which monitors both wind speed and wind direction.

### Technical Description

The 024A Wind Vane measures wind direction from 0 to 360 degrees with a 5 degree accuracy specification. Wind direction is sensed with a 10 kohm potentiometer. With the precision excitation voltage from the data logger applied to

the potentiometer element, the output signal is an analog voltage that is directly proportional to the azimuth of the wind direction.

### Specifications

|                             |   |
|-----------------------------|---|
| Sensor                      | Vane  |
| Measurement Description     | Wind direction  |
| Operating Range             | 0 to 360°   |
| Threshold                   | 0.45 m s <sup>-1</sup> (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               | <ul style="list-style-type: none"> <li>› 0.4 (optional fast response)</li> <li>› 0.25 (standard)</li> </ul> |

|             |                    |
|-------------|--------------------|
| Resolution  | 0.5°               |
| Height      | 33.8 cm (13.3 in.) |
| Length      | 44.7 cm (17.6 in.) |
| Vane Height | 30.5 cm (12 in.)   |
| Vane Width  | 7.6 cm (3 in.)     |
| Weight      | 450 g (1 lb)       |

#### Potentiometer

|                        |             |
|------------------------|-------------|
| Sand, Dust, and Fungus | MIL-E-5272  |
| Salt Spray             | MIL-E-12934 |
| Resistance             | 0 to 10 kΩ  |

For comprehensive details, visit: [www.campbellsci.eu/024a](http://www.campbellsci.eu/024a) 