



Reliable, Accurate Wind Speed

Compatible with all Campbell
Scientific dataloggers

Overview

The 014A is a three-cup anemometer that monitors wind speed for the range of 0 to 45 m s⁻¹ with a threshold of 0.45 m s⁻¹. It connects directly to a Campbell Scientific datalogger, which mea-

sures the 014A's pulse signal and converts the signal to engineering units (mph, m s⁻¹, knots).

Benefits and Features

- › Ideal for applications that do not require wind direction measurements
- › Sealed magnetic reed switch
- › Designed for continuous, long term, unattended operation in adverse conditions
- › Standard aluminum cup assembly has a distance constant of less than 4.5 m
- › For greater sensitivity, an optional LEXAN cup assembly has a distance constant of less than 1.5 m

Technical Description

Construction

The 014A is constructed of corrosion-resistant, stainless-steel and anodized aluminum. Its three-cup anemometer assembly contains a sealed magnetic reed switch. Rotation of the cupwheel produces a pulse that is directly proportional to wind speed.

Mounting

The 014A attaches to a Campbell Scientific crossarm using a 1049 Nu-Rail fitting or CM220 Right Angle Mounting Bracket. It also can be attached to the top of our CM110, CM115, and CM120 stainless-steel tripods using the CM216 Sensor Mounting Kit.

Note: The 014A is manufactured by Met One Instruments (Grants Pass, OR) but is cabled by Campbell Scientific for use with our dataloggers.



Ordering Information

Wind Speed Sensor

014A-L Met One Wind Sensor with user-specified cable length. Enter cable length, in feet, after the -L. Must choose a cable termination option (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 pre-wired enclosure.

Mounts

- 1049** ¾-in. x 1-in. Nu-Rail fitting for attaching the 014A to a crossarm, such as a CM202, CM204, or CM206.
- CM220** Right Angle Mounting Bracket for attaching the 014A to a cross-arm, such as a CM202, CM204, or CM206.
- CM216** Sensor Mounting Kit for attaching sensor to the top of a CM110, CM115, or CM120 tripod.

Specifications

- › Range: 0 to 45 m s⁻¹ (0 to 100 mph)
- › Starting Threshold: 0.45 m s⁻¹ (1.0 mph)
- › Accuracy: 0.11 m s⁻¹ (0.25 mph) or 1.5%
- › Distance Constant
 - Standard: < 4.5 m (15 ft)
 - Optional Fast Response: < 1.5 m (5 ft)
- › Contact Rating: 10 mA maximum
- › Temperature Range: -50° to +70°C
- › Radius: 10.4 cm (4.1 in)
- › Height: 34.8 cm (13.7 in)
- › Sensor Weight: 318 g (11 oz)
- › Cable Description: vinyl jacket, shielded, with quick-connect connector for attachment to the sensor
- › Cable Weight: 140 g (5 oz) per 10 ft length

Cable Length Recommendations¹

CM106B ²	CM110 ²	CM115 ²	CM120 ²	UT10	UT20	UT30
4 m (13 ft)	4 m (13 ft)	6 m (19 ft)	7 m (24 ft)	4 m (13 ft)	7 m (24 ft)	10 m (34 ft)

Notes:

1. The lengths assume the sensor is mounted atop the tripod/tower at the end of a 2 ft crossarm.
2. The lengths assume the enclosure is mounted to the tripod mast. If it is mounted to the leg base, add 0.6 m (2 ft) to the cable length.



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