

014A

Wind Speed Sensor

Met One's 014A* Wind Speed Sensor is an accurate and durable 0 to 100 mph anemometer with a threshold of 1.0 mph. The sensor is a continuous-duty measurement tool designed for long-term unattended operation in adverse environments. A sealed magnetic reed switch produces a series of contact closures at a rate proportional to wind speed. An aluminum cup assembly with a distance constant of less than 15 feet is normally supplied. For greater sensitivity, an optional LEXAN cup assembly has a distance constant of less than 5 feet.

Construction and Mounting

The 014A is constructed of corrosion-resistant, stainless steel and anodized aluminum. The 014A can be attached to a CM202, CM204, or CM206 crossarm via a 1049 NU-RAIL fitting or CM220 Right Angle Mounting Bracket. Alternatively, the 014A can be attached to the top of our stainless-steel tripods via the CM216 Sensor Mounting Kit.

Ordering Information

Wind Speed Sensor

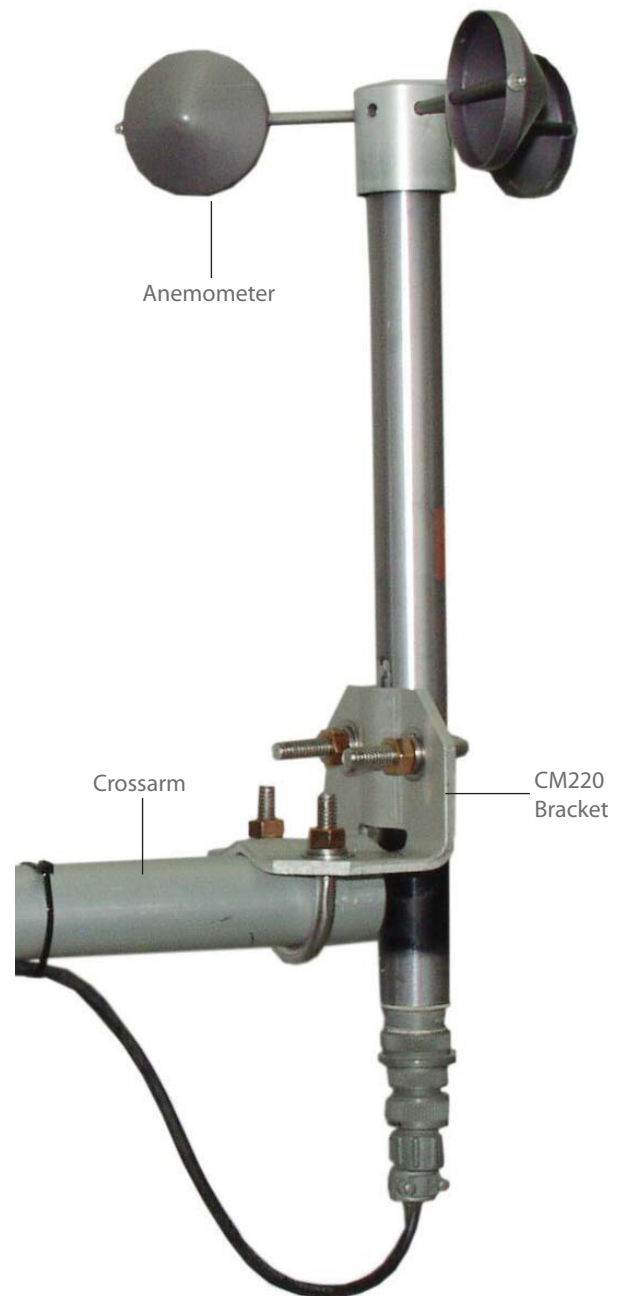
014A-L 014A Wind Sensor with user-specified lead length. Enter lead length in feet after L. Must choose a cable termination option (see below).

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 prewired enclosure.

Mounts

- 1049** ¾-inch x 1-inch 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 crossarm, such as a CM202, CM204, or CM206.
- CM216** Sensor Mounting Kit for attaching sensor to the top of a CM110, CM115, or CM120 tripod.



Recommended Lead Lengths

CM6	CM10	CM110	CM115	CM120	UT10	UT20	UT30
10 ft	13 ft	13 ft	19 ft	24 ft	13 ft	24 ft	34 ft
<i>These lead lengths assume the sensor is mounted atop the tripod/tower via a CM202 crossarm.</i>							

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

Specifications

Range:	0 to 100 mph (0 to 45 m/s)
Starting Threshold:	1.0 mph (0.45 m/s)
Accuracy:	0.25 mph (0.11 m/s) or 1.5%
Distance Constant	
Standard:	<15 feet (4.5 m)
Optional Fast Response:	<5 feet (1.5 m)
Contact Rating:	10 mA maximum
Temperature Range:	-50°C to +70°C
Sensor Cable:	Quick-connect connector with vinyl jacketed, shielded cable
Dimensions	
Radius:	4.1 inch (10.4 cm)
Height:	13.7 inch (34.8 cm)
Weight	
Sensor:	11 oz (318 g)
Cable:	5 oz per 10 feet

