Campbell SCIENTIFIC

014A-L
3-Cup Anemometer

Reliable, Accurate Wind Speed

Compatible with all Campbell Scientific data loggers

Overview

The 014A, manufactured by Met One, is a three-cup anemometer that monitors wind speed for the range of 0 to 45 m/s with a threshold of 0.45 m/s. You connect the 014A directly to a Campbell Scientific data logger, which measures the anemometer's pulse signal and converts the signal to engineering units (mph, m/s, 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

Detailed Description

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

Specifications

Sensor	3-cup anemometer
Measurement Description	Wind speed
Range	0 to 45 m/s (0 to 100 mph)
Starting Threshold	0.45 m/s (1.0 mph)
Accuracy	0.11 m/s (0.25 mph) or 1.5%
Contact Rating	10 mA (maximum)
Operating Temperature Range	-50° to +70°C
Distance Constant	< 4.5 m (15 ft) standard < 1.5 m (5 ft) optional fast response

For comprehensive details, visit: www.campbellsci.com/014a

Cable Description	Quick-connect connector with vinyl jacketed, shielded cable
Radius	10.4 cm (4.1 in.)

Height	34.8 cm (13.7 in.)
Sensor Weight	318 g (11 oz)
Cable Weight	140 g (5 oz) per 3 m (10 ft) length

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