

Wind Speed Sensor

014A

The Model 014A Wind Speed Sensor is an accurate, durable and economical anemometer suitable for a wide range of wind study applications. It is designed for long term unattended operation in most meteorological environments.

Features

- Range to 100 mph
- Low starting threshold
- Broad temperature operating range
- Accuracy of $\pm 1.5\%$
- Stainless steel and aluminum construction

Operation

For maximum operational reliability, the sensor uses a sealed magnetic read switch. This switch produces a series of contact closures at a rate proportional to wind speed. With its pulsed output, the Model 014A lends itself to applications involving both digital and analog measurement systems.

The pulsed signal may be converted to standardized analog voltage and/or current output by use of translator electronics. Direct connection to a datalogger is also possible. The robust aluminum cup assembly normally supplied has a distance constant of less than

15 feet. For greater sensitivity, the optional Lexan plastic cup assembly may be specified, which has a distance constant of less than 5 feet.

Construction

The construction of the sensor reflects the requirement for reliability and durability. Only the best corrosion resistant materials, such as stainless steels and anodized aluminum are used. The Model 014A sensor uses a quick-connect sensor cable. Cable length may extend hundreds of feet without affecting measurement performance.

Accuracy, reliability and economy make the Model 014A Wind Speed Sensor an ideal choice for most applications.



Specifications

Range:	0-100 mph
Starting Threshold:	1.0 mph
Accuracy:	± 0.25 mph or 1.5% FS
Distance Constant	
Standard:	Less than 15 ft (Metal Cup)
Fast Response:	Less than 5 ft (Lexan Cup)
Operating Range:	-50°C to +70°C
Weight:	11 oz (.31 kg)
Contact Rating:	10 mA maximum
Mounting:	PN 191 Crossarm
Ordering Information	
Standard Model:	014A (Metal Cup)
Fast Response Model:	014A-1 (Lexan Cup)
Cable:	PN 1805-xx (xx=length in ft)



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