

Wind Speed Sensor

013

The Model 013 Wind Speed Sensor has been specifically designed to accurately and reliably measure wind velocity under the most adverse environmental conditions.

Features

- Accuracy of 2%
- Temperature operating range of -50°C to +70°C
- Stainless steel ball bearings for greatest accuracy and operating life
- Starting threshold of 1.0 mph

Operation

The Model 013 is particularly useful in remote, unattended monitoring applications where the sensor is likely to encounter high winds and heavy icing conditions. The sensor has a range of 0-150 mph with an accuracy of 2% and a starting threshold of 1.0 mph. A unique feature of the Model 013 is a built-in ice skirt which allows sensor operation with a 2" ice load. The sensor is supplied with an extremely robust aluminum cup assembly which has a distance constant of less than 15 feet.

Maximum operational reliability is ensured by the use of a sealed magnetic reed switch which produces a series of contact closures at a rate proportional to wind speed. The pulsed output of the sensor lends itself to applications involving both digital and analog measurement systems. Met One Instruments' Wind Speed Translator Module con-



verts the signal into standardized analog voltage/current output.

Construction

The construction of the sensor reflects the requirement for reliability and durability.

Specifications

Range:	0 - 150 mph
Starting Threshold:	1.0 mph
Accuracy:	±0.25 mph or 2%
Distance Constant:	Less than 15 ft (4.5 m)
Operating Range:	-50°C to +70°C
Ice Load:	2 in (5.1 cm)
Weight:	14 oz (.4 kg)
Contact Rating:	10 mA maximum
Mounting:	PN 191 Crossarm
Sensor Cable:	PN 1805-xx (xx=length in ft)

Only the best corrosion resistant material, such as stainless steel and anodized aluminum are used. The 013 sensor uses a quick connect sensor cable. Cable length may extend hundreds of feet without affecting measurement performance.



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