



Cup & Vane Wind Sensor

S1514Z

- **Robust aluminum cup assembly**
 - **Built-in ice skirt**
 - **Pulsed output**

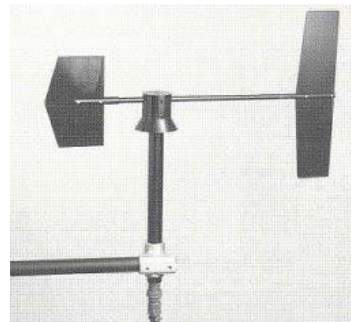
Wind Speed

This Wind Speed sensor has been specifically designed to accurately and reliably measure wind velocity under the most adverse environmental conditions. Its robust aluminum cup assembly is particularly useful in remote, unattended monitoring applications where it is likely to encounter high winds and heavy icing conditions. This sensor has a unique built-in ice skirt which allows it to operate with a 2" ice load. Pulsed output lends itself to both digital and analog measurement system applications.



Wind Direction

Features a low starting threshold of 1.5 mph, along with built-in alignment and a calibration fixture. This Wind Direction sensor operates in winds of 150 mph and ice loads of 2". Sensor output is an accurate "Mechanical Average" of the wind direction. A slotted shaft coupler decreases potentiometer wear and increases life of the sensor.





Technical Specifications

1514Z

Wind Speed

Maximum Operating Range:	0 - 150 mph
Starting Threshold:	1.0 mph
Accuracy:	+/- 2% or 0.25 mph
Temperature Operating Range:	-50°C to +70°C
Distant Constant:	Less than 15 feet
Ice Load:	2 inches

PHYSICAL

Weight:	14 ounces
Finish:	Anodized aluminum

Wind Direction

Azimuth:	Electrical: 0 to 360°
Threshold:	1.5 mph
Maximum Wind Speed:	150 mph
Accuracy:	+/- 10° standard, others on request
Damping Ratio:	0.3
Delay Distance:	15 feet
Temperature Range:	-50°C to +70°C
Ice Load:	2 inches

PHYSICAL

Finish:	Anodized aluminum
---------	-------------------