



PSD Wind Speed & Direction S1145Z

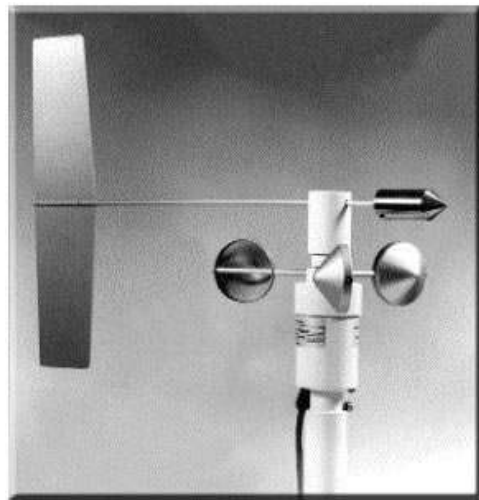
- Very low threshold
- Rugged – stainless steel and aluminum
 - High damping ratio
 - Accuracy of +/-1.1%

This wind monitor combines wind speed and direction into a single remote sensing unit, making it easier to mount and to maintain. It is designed to be very accurate, yet extremely robust. High quality aluminum and stainless steel components, along with a high gloss thermoplastic resin coating ensure long life with minimal maintenance.

Wind speed is measured using a sealed reed switch, which provides a series of pulses at a rate proportional to wind speed.

Wind direction is measured using an aluminum vane directly coupled to a precision potentiometer. Variations in wind direction produce a corresponding change of voltage, which lends itself to both digital and analog measurement systems.

Simplicity and lightweight corrosion resistant construction were principal design considerations with this wind sensor. The instrument can be easily removed in less than a minute for maintenance.





Technical Specifications

S1145Z

Wind Speed

Maximum Operating Range:	0 - 150 kts
Starting Threshold:	0.8 kts
Accuracy	
< 22.7 mph:	0.25 mph (0.1 m/s)
> 22.7 mph:	+/- 1.1% of true

Wind Direction

Azimuth	
Electrical:	0 - 356°
Mechanical:	0 - 360°
Starting Threshold:	0.9 mph (0.4 m/s)
Accuracy:	+/- 4°
Damping Ratio:	0.25 standard, 0.4 to 0.6 optional
Resolution:	< 0.5°

PHYSICAL

Weight:	1 lb, 12.5 oz (0.81 kg)
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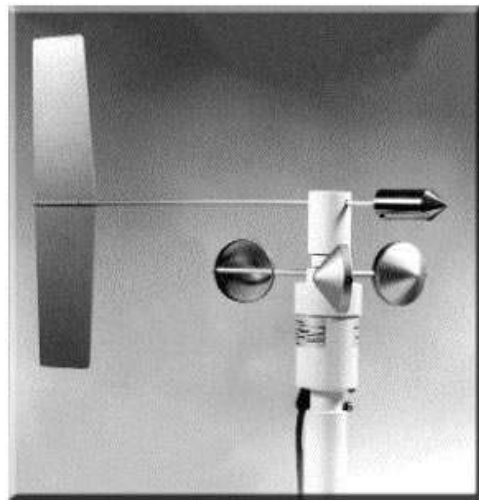
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- Rugged – stainless steel and aluminum
 - High damping ratio
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Technical Specifications

S1145Z

Wind Speed

Maximum Operating Range:	0 - 167 mph (0 - 75 m/s)
Starting Threshold:	0.3 m/s
Accuracy	
< 22.7 mph:	0.25 mph (0.1 m/s)
> 22.7 mph:	+/- 1.1% of true

Wind Direction

Azimuth	
Electrical:	0 - 356°
Mechanical:	0 - 360°
Starting Threshold:	0.3 m/s
Accuracy:	+/- 4°
Damping Ratio:	0.25 standard, 0.4 to 0.6 optional
Resolution:	< 0.5°

PHYSICAL

Weight:	1 lb, 12.5 oz (0.81 kg)
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