

WIND SENSORS A100R and W200P

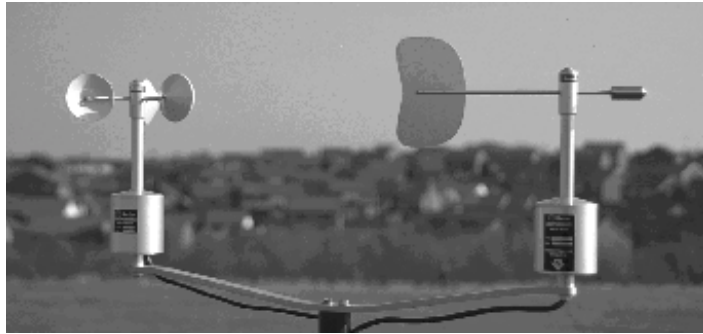


Photo:
Typical use shown of the A100R,
W200P and dual mount.

SWITCHING ANEMOMETER (A100R)

The Vector Instruments equivalent anemometer to the wind speed section of our WSS1 for run of wind or average wind speed measurements. A magnet operated mercury wetted reed-switch produces one bounce free contact closure per revolution of the rotor.

Construction from anodised aluminium alloys, stainless steels, and weather resisting plastics for all exposed parts, with the bearings being two stainless steel ball-races.

A marine version (A100R/WR) with touching shaft seal for extra protection is available. A small increase in threshold speed is the penalty of this.

An attached screened cable of 3metres is fitted as standard.

Specifications :

Threshold:	0.2 m/s (0.6 m/s A100R/WR) Max. speed over 75 m/s.
Accuracy :	1% of reading (10-55 m/s), 2% of reading (>55 m/s).
Distance constant :	2.3 metres
Calibration :	0.80 revolutions per metre nominal (1 pulse per 1.25 metres).
Size :	Height 200mm, Case dia. 55mm., Rotor 150mm dia. (3-cup.)

POTENTIOMETER WINDVANE (W200P)

The Vector Instruments equivalent to the wind vane section of our WSS1. Construction from anodised aluminium alloys and stainless steels for all exposed parts.

A precision low torque wire-wound potentiometer consistent with long life and reliable operation.

An attached screened cable of 3metres is fitted as standard.

Specifications

Maximum wind speed :	over 75 m/s (150 Kts, 170 mph).
Threshold :	0.6 m/s the fin will commence movement when aligned at 45° to the flow.
Distance constant :	2.3 metres
Range :	Mechanical 360°, Electrical 356.5° ± 1.5° (3.5° deadband).
Potentiometer resistance :	1000 Ohms +10%.

Ordering information

A100R	Wind Speed sensor.
W200P	Wind-Vane sensor.
405-0	Dual Mounting bracket as shown.
MASTKIT/VE	Dual Mounting bracket and 2 metre mast kit, with guy wires etc.