



3-Dimensional Ultrasonic Wind Sensor

S85032

- **3-Dimensional axis**
- **No moving parts**
- **No calibration required**
- **Stainless steel construction**

This Ultrasonic Anemometer is a 3-axis, no-moving-parts wind sensor. It is ideal for applications requiring fast response, high resolution and three-dimensional wind measurement.

The sensor features durable corrosion-resistant construction with 3 opposing pairs of ultrasonic transducers supported by stainless steel members. Each unit is individually wind-tunnel calibrated. Wind and sonic temperature data is available on four voltage output channels. Serial RS-232 and RS-485 outputs are available as well. The sensor installs on standard 1 inch pipe.





Technical Specifications

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Wind Speed:	0 to 40 m/s (0 to 90 mph) Resolution: 0.01 m/s Threshold: 0.01 m/s Accuracy: $\pm 1\% \pm 0.05\text{m/s}$ (30 m/s), $\pm 3\%$ (40 m/s)
Wind Direction:	0 to 360 degrees Elevation Range: ± 60 degrees Resolution: 0.1 degree Accuracy: ± 2 degrees (30 m/s), ± 5 degrees (40 m/s)
Speed of Sound:	300 to 360 m/s Resolution: 0.01 m/s Accuracy: $\pm 0.1\% \pm 0.05$ m/s (30 m/s)
Sonic Temperature:	-50 to +50 °C Resolution: 0.01 m/s Accuracy: $\pm 2^\circ\text{C}$ (30 m/s)
Serial Output:	User Programmable ASCII, RS-232 or RS-485 1200 to 38400 baud 4 to 32 Hz (user-selected) Units: m/s, cm/s, mph, knots, km/h
Analog Voltage Outputs:	4 voltage outputs, 0 to 5000 mV
Power Requirement:	12 to 24 VDC, 110 mA
Operating Temperature:	-50 to +50 C
Dimensions:	56cm high x 17cm radius (3 support arms) Weight: 1.2 kg (2.6 lb) Shipping Weight: 4.5 kg (10 lb)