



The YOUNG Model 85000 Ultrasonic Anemometer is a 2-axis, no-moving-parts wind sensor. It is ideal for general meteorological applications requiring accurate, reliable wind measurement.

The sensor features durable, corrosion-resistant construction with opposing pairs of ultrasonic transducers secured in a streamlined molded frame. The 85000 is fully wind-tunnel tested and calibrated to provide accurate wind measurement over a wide operating range.

The standard sensor includes many useful output options. Analog voltage outputs are provided for wind speed and wind direction. A variety of serial output formats are also available on the standard sensor. These include ASCII text, RMYT (compatible with YOUNG displays), NMEA and SDI-12 formats.

The sensor installs on readily available 1 inch (IPS) pipe. Wiring connections are made in a convenient weatherproof junction box; special mounting adapters, connectors and cables are not required.

For extended cold-weather use, Model 85004 features thermostatically controlled heaters in transducer and housing surfaces.



Specifications

Wind Speed: 0 to 70 m/s (0 to 156 mph)
Resolution: 0.1 m/s
Accuracy: (30 m/s) $\pm 2\%$ or 0.1 m/s
(70 m/s) $\pm 3\%$

Wind Direction: 0 to 360 degrees
Resolution: 1 degree
Accuracy: ± 2 degrees

Serial Output:
RS-232 or RS-485

Formats:
ASCII Text
RMYT
NMEA
SDI-12
Units: m/s, MPH, Knots, Km/hr

Analog Voltage Outputs:
Wind Speed: 0 to 5000 mV
Wind Direction: 0 to 5000 mV

Power Requirement:
9 to 16 VDC, 30 mA typical
(less than 1mA standby)
Heater Power: (85004)
24VDC, 60W Max.

Operating Temperature:
-50 to +50 °C

Dimensions:
34cm high x 17cm wide
Weight: 0.7 kg (1.5 lb)
Shipping Weight: 1.6 kg (3.5 lb)



Complies with applicable CE Directives