

wind



Model 85000

Ultrasonic Anemometer

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: \pm 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)

Ordering Information

MODEL

ULTRASONIC ANEMOMETER - VOLTAGE & SERIAL OUTPUTS.....	85000
ULTRASONIC ANEMOMETER - HEATED.....	85004
BIRD WIRE ASSEMBLY	85052



Complies with applicable CE Directives



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