

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 stream-lined molded frame. The 85000 is fully wind-tunnel tested and calibrated to provide accurate wind measurement over a wide operating range.

The standard sensor offers a variety of 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 connectors and cables are not required.



Specifications

Wind Speed: 0 to 60 m/s (0 to 134 mph)
Resolution: 0.1 m/s
Accuracy: $\pm 3\%$ or ± 0.1 m/s (greater of)

Wind Direction: 0 to 360 degrees
Resolution: 1 degree
Accuracy: ± 3 degrees

Serial Output:
RS-232 or RS-485
1 Hz

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

Analog Voltage Outputs:
Wind Speed: 0 to 5000 mV (0-60 m/s)
Wind Direction: 0 to 5000 mV (0-540°)

Power Requirement:
9 to 16 VDC, 40 mA

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



Complies with applicable CE Directives



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