

**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 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.



## 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)

**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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