

*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



R.M. YOUNG COMPANY  
2801 Aero Park Drive  
Traverse City, Michigan 49686 USA  
TEL: (231) 946-3980 FAX: (231) 946-4772  
E-mail: met.sales@youngusa.com  
Web Site: www.youngusa.com