

*The YOUNG Model 85106 Ultrasonic Anemometer is a 2-axis, no-moving-parts wind sensor with special features for use in the marine environment. It is ideal for 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. Accessory bird spikes discourage perching on the anemometer frame. The 85106 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. As supplied, the sensor is set up to deliver NMEA serial output, compatible with many marine devices. Other serial outputs are also available including ASCII text, RMYT ( for YOUNG displays) and SDI-12. Analog voltage outputs are also available from the standard sensor.

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:**  
 NMEA  
 ASCII Text  
 RMYT  
 SDI-12  
**Units:** Knots, m/s, MPH, 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)  
 \*39 cm with Bird Spikes installed.

## Ordering Information

## MODEL

ULTRASONIC ANEMOMETER- MARINE VERSION..... 85106



Complies with applicable CE Directives



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