



MODEL 85000

ULTRASONIC ANEMOMETER



The **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. This sensor is directly compatible with the Data Loggers METEODATA-2000C/3000C series.

The sensor installs on readily available 1 inch (PS) 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) ± 2% or 0.1 m/s
(70 m/s) ± 3%***Wind Direction: 0 to 360 degrees***Resolution: 1 degree**Accuracy: ± 2 degrees***Serial output:***RS-232 or RS-485***Formats:***ASCII Text**RMYT NM EA 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