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wind



Model 86000 Ultrasonic Anemometer

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YOUNG

Model 86000 Ultrasonic Anemometer

Introducing the YOUNG Model 86000 next-generation 2D Ultrasonic Anemometer, offering high performance, low cost, and compact size. Loaded with standard options, this sensor is ideal for the most demanding sensing requirements.

Featuring durable, corrosion resistant construction with sensitive ultrasonic transducers secured in a streamlined molded frame, the **86000** is fully wind tunnel tested and calibrated to provide reliable, accurate wind measurement.

Standard outputs include analog voltage output and RS-232 serial connections. For use in industrial settings where noise immunity is important, calibrated 4-20 mA current and RS-485 serial outputs are also included. A variety of serial data formats are provided including ASCII text, RMYT (compatible with YOUNG displays), and NMEA for marine use. SDI-12 model also available.

The **86000** installs on readily available 1-inch (IPS) pipe. Cable wires connect to convenient, reliable

terminals in a weather-proof junction box; special mounting adapters, connectors, and cables are not required.

Ordering Information

ULTRASONIC ANEMOMETER - CURRENT, VOLTAGE & SERIAL OUTPUTS	86000
ULTRASONIC ANEMOMETER - HEATED W/ CURRENT, VOLTAGE & SERIAL OUTPUTS	86004
BIRD WIRE ASSEMBLY - (FOR USE WITH 86004)	86052
ULTRASONIC ANEMOMETER - MARINE VERSION - NMEA SERIAL OUTPUT	86106
ULTRASONIC ANEMOMETER - SDI-1286	000-SDI



Wind Speed: 0-75 m/s Resolution: 0.01 m/s Starting Threshold: 0.01 m/s Accuracy: 30 m/s \pm 2% or 0.1 m/s, 75 m/s \pm 3% Response Time: < 0.25 seconds

Wind Direction: 0 to 360 degrees Resolution: 0.1 degree Starting Threshold: 0.01 m/s Accuracy: ± 2 degrees Response Time: < 0.25 seconds

Serial Output: RS232 or RS485 Formats: ASCII, ASCII polled, NMEA, RMYT SDI-12 Baud: 1200, 4800, 9600, 19200, 38400 Wind Units: m/s knots, mph, kmph

Wind Units: m/s, knots, mph, kmph Wind Format: Speed & Direction or U & V Status Indicator: Standard with ASCII & NMEA

Analog Outputs: 0-5000 mV or 4-20 mA Analog Wind Scale: 0-100 m/s Analog Direction Scale: 0-360 or 0-540 degrees

Output Update Rate: 0.1 to 20 Hz

Power Requirement: Sensor: 10-30 VDC < 20 mA typical Heater: 24 VDC, 2.5 A (Model 86004 Only)

Environmental: Operating Temperature: -40 to +60°C Protection Class: IP65

Dimensions: 29 cm high x 11 cm wide Weight: 0.4 kg (0.9 lb) Shipping Weight: 1.6 kg (3.5 lb)

For extended coldweather use, Model 86004 features thermostatically controlled heaters in transducer and housing surfaces. Wind speed range reduced with heated model.



MODEL



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