





Model 820457 ULTRASONIC WIND SENSOR

Met One's Model 820457 Ultrasonic Wind Sensor features durable, corrosion-resistant construction with sensitive ultrasonic transducers secured in a streamlined molded frame. The 820457 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 essential, calibrated 4-20 mA current and RS-485 serial outputs are also included. A variety of serial data formats are available, including ASCII text. SDI-12 model is also available-- please specify at the time of ordering.

For extended cold-weather use, Model 820458 features thermostatically controlled heaters in transducer and housing surfaces. Wind speed range reduced with the heated model.

APPLICATIONS:

- Ambient Air Monitoring
- Environmental Surveys
- Government
- Homeland Security & Military

ORDERING INFORMATION:

- 2D Unheated Sonic P/N: 820457
- Cable Assembly for 820457: 400047
- 2D Heated Sonic P/N: 820458
- Cable Assembly for 820458: 400048
- Mounting Kit: 63633
- 24Vdc Power Supply for 820458 heaters: 10898







Instrument Expert Original factory packaging www.dorgean.com

Model 820457

SPECIFICATIONS

Wind Speed Range: Resolution: Starting Threshold: Accuracy: Response Time	Heated 0-65 m/s & Unheated 0-75 m/s 0.01 m/s ±2% ± 0.1 m/s (30 m/s); ±3% (65m/s) < 0.25 seconds
Wind Direction Range: Resolution: Starting Threshold: Accuracy: Response Time:	0 to 360 degrees 0.1 degree 0.01 m/s ± 2 degrees < 0.25 seconds
Serial Output: Formats: Baud:	RS232 or RS485 ASCII, ASCII polled, NMEA, RMYT SDI -12 1200, 4800, 9600, 19200, 38400
Wind Units: Wind Format: Status Indicator:	m/s, knots, mph, kmph Speed & Direction or U & V Standard with ASCII & NMEA
Analog Output Range: Analog Speed Scale: Analog Direction Scale:	0-5000 mV or 4-20 mA 0-100 m/s 0-360 or 0-540 degrees
Output Update Rate:	User Adjustable: 0.1 to 20 Hz
Power Requirement Sensor: Heater:	10-30 VDC < 20 mA typical 24 VDC, 2.5 A (Model 820458 Only)
Environmental Operating Temperature: Protection Class:	-40 to +60°C IP65
Physical Dimensions: Weight: Shipping Weight:	29 cm high x 11 cm wide 0.4 kg (0.9 lb) 1.6 kg (3.5 lb)



Specifications are subject to change at any time.