

# U[sonic] Ultrasonic Wind Sensor

The all new ultrasonic sensor for measuring wind direction and wind speed. In lieu of moving parts, 4 ultrasonic sensors capture even the slightest of breezes, and will remain accurate in the most severe conditions. The durable metal housing can withstand both extreme hot and cold climates as well as salty ocean waters. U[sonic] has smart heating technology which targets the direction of the wind and directs the heating element at exactly those points, which helps to conserve power and resources. Overall, this ultrasonic wind sensor is professional grade and will provide all users extremely dependable data, regardless of mother natures influence.

## Features

- Without Moving Elements
- 2 Parameters Measurable (Wind Speed And Direction)
- Intelligent Heating Depending On Wind Speed And Direction
- Easy Installation, Easy To Maintain



## Uses

- Professional Meteorological Applications
- Wind Turbines On And Off Shore
- Ship Meteorology
- Building Automation
- Traffic Meteorology
- Industrial Meteorology
- Wind Warning

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### Specs

Parameter	Measuring Range:	Accuracy:	Resolution:
Wind Direction	0 – 359.9°	< 2° (> 1 m/s) RMSE	0.1°
Wind Speed	0 – 75 m/s	± 0.2 m/s RMSE (V < 10 m/s) ± 2 % RMSE (10 m/s < V < 65 m/s)	0.1 m/s
Response Threshold	0.1 m/s (Adjustable Wind Direction)		
Measuring Rate	0.1 – 10 Hz – (Internal Measurement > 60 Hz)		
Operating Conditions	-40 - +70°C (With Heating -50 - _70°C) – 0 – 100% r.h. Protocols NMEA 0183 – WIMWV • WIMTA – SDI-12 – Modbus (Update In Progress)		
Power Supply	6 – 60 V <sub>DC</sub> • 24 V <sub>AC/DC</sub>		
Current Consumption And Power Input Heating Housing Dimensions / Weight Analog Output	Sensor: Approx. 25 mA at 24 V DC Typical – With Configurable 60 W / 120 W / 240 W / max. 310 W at 24 V AC/DC Seawater Resistant Aluminum • IP 65 Ø 199 mm • Height 149 mm • Approx. 2 kg 0 – 20 mA – 4 – 20 mA – 0 – 5 V – 0 – 10 V – Free Scalable		

Additional Lambrecht Products Available. Please Call For Details.