

# u[sonic]

### The all new combined ultrasonic sensor u[sonic]...

for wind direction and wind speed. This seawater resistant sensor is perfectly heated and ideal for use under cold climate conditions. The equipment is connected by an 8 pole screw connector. The measured values can be requested over a variety of interfaces.

- without moving measuring elements
- 2 parameters measurable
- intelligent heating depending on wind speed and wind direction
- easy installation, easy to maintain

professional meteorological application • wind turbines on- and off-shore • ship weather station • building automation • traffic meteorology • industrial meteorology • wind warning



Professional Line	(16470)	Combined Ultrasonic Wind Sensor u[sonic]	Id-No. 00.16470.000000
<b>Parameter:</b>		Measuring range:	Accuracy:
Wind direction:	0...359.9°		< 2° (> 1 m/s) RMSE
Wind speed:	0...75 m/s		± 0.2 m/s RMSE (v < 10 m/s); ± 2 % RMSE (10 m/s < v < 65 m/s)
Resolution:			0.1°
Response threshold:		0.1 ms (adjustable for wind direction)	
Measuring rate:		0.1...10 Hz • (internal measurement 50 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:		sensor: typ. 35 mA at 24 V <sub>DC</sub> and deactivated analog output • with heating: configurable 60 W/ 120 W/ 240 W/ max. 310 W at 24 V <sub>AC/DC</sub>	
Housing:		seawater-resistant aluminium • IP 65	
Dimensions/ Weight:		∅ 199 mm • height 149 mm • approx. 2 kg	
Analog output:		0...20 mA • 4...20 mA • 0...5 V • 0...10 V • free scalable	