

The all new combined ultrasonic sensor...

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]		
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 ms (adjustable for 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 _{DC} • 24 V _{AC/DC}		
Current consumption and power input:		sensor: approx. 25 mA at 24 V _{DC} typical • with heating: configurable 60 W/ 120 W/ 240 W/ max. 310 W at 24 V _{AC/DC}		
Housing:		seawater-resistant aluminium • IP 65		
Dimensions/ Weight:		Ø 199 mm • height 149 mm • approx. 2 kg		
Analog output:		0...20 mA • 4...20 mA • 0...5 V • 0...10 V • free scalable		

Subject to change without notice.

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