u[sonic]

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

for wind direction and wind speed. This seawater resistent 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 offshore • ship weather station • building automation • traffic meteorology • industrial meteorology • wind warning

Professional Line | **(16470)** | **Combined Ultrasonic Wind Sensor u[sonic]** | **Id-No. 00.16470.000 000**

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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