

**u[sonic] ULTRASONIC WIND SENSOR**



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

for wind direction and wind speed. The 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

**APPLICATIONS**

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

Professional Line	u[sonic] Ultrasonic wind sensor
Id-No.	00.16470.100000
Meas. range wind direction	0...359.9°
Meas. range wind speed	0...65 m/s
Accuracy wind direction	< 2° (> 1 m/s) RMSE
Accuracy wind speed	± 0,2 m/s RMSE (v < 10 m/s) ; ± 2 % RMSE (10 m/s < v < 65 m/s)
Resolution wind direction	0.1°
Resolution wind speed	0.1 m/s
Trigger threshold	0.1 m/s (adjustable for wind direction)
Output	RS 485 · Analog: 0...20 mA · 4...20 mA · 0...5 V · 0...10 V
Protocols	NMEA 0183 · WIMWV · WIMTA · SDI-12 · Modbus (optional) · other protocols on request
Measuring rate	0.1...10 Hz · (internal measurement 50 Hz)
Operating conditions	-40...+70 °C (with heating -50...+70 °C) · 0...100 % r. F.
Strongest wind impact velocity	100 m/s
Supply voltage	6...60 VDC · 24 V AC/DC
Current consumption	sensor: typ. 45 mA at 24 VDC and deactivated analog output heater factory configurable: 60 W · 120 W · 240 W (standard)
Measuring principle	Ultrasound
Heating data	configurable (factory-setting) 60 W · 120 W · 240 W (standard)
Dimensions	Ø 199 mm · height 149 mm
Housing	seawater resistant aluminium
Protection class	IP 66 · IP 67
Weight	approx. 2 kg
Accessories (order separately)	32.16470.060000 sensor cable, 15 m · 8-pole M16

As of: 09.06.2020