



## Compact all-in-one weather sensor for measurement of wind direction and speed.

- **Parameters measured**  
Wind direction and speed
- **Measurement technology**  
Ultrasonic/Wind
- **Product highlights**  
Wind detection with birdproof construction. Compact all-in-one weather sensor, low power, heater, maintenance-free operation, open communication protocol.
- **Interfaces**  
RS485 with supported protocols UMB-Binary, UMB-ASCII, Modbus-RTU, Modbus-ASCII, XDR and SDI-12
- **Article number**  
8371.1

From the WS product family of professional intelligent measurement transducers with digital interface for environmental applications for measuring wind direction and speed. One external temperature or rain sensor is connectable.

### General

### Technical data

Dimensions	Ø approx. 150mm, height approx. 194mm
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Weight	Approx. 0.8kg
Interface	RS485, 2-wire, half-duplex
Power supply	11...32 VDC
Power supply	5...11 VDC (electronics with limited precision of measurements)
Power supply	24 VDC +/- 10% (heater)
Power consumption	20 VA (heater)
Operating temperature	-50...60°C (with heater)
Operating rel. humidity	0...100% RH
Cable length	10m
Protection level housing	IP66
Standards/Regulations	Compliant to IEC 61724-1:2017
Mast mounting suitable for	mast diameter 60 - 76mm

Wind direction	
Principle	Ultrasonic
Measuring range	0 ... 359.9 °
Unit	°
Accuracy	< 3° RMSE > 1.0m/s
Resolution	0.1

Wind speed	
Principle	Ultrasonic
Measuring range	0 ... 75 m/s
Unit	m/s
Accuracy	±0.3m/s or ±3% (0...35m/s) ±5% (>35m/s) RMS
Resolution	0.1 m/s