

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.U01

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

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