



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

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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













WS200-UMB Smart Weather Sensor



Weight	Approx. 0.8kg
Interface	RS485, 2-wire, half-duplex
Power supply	1132 VDC
Power supply	511 VDC (electronics with limited precision of measurements)
Power supply	24 VDC +/- 10% (heater)
Power consumption	20 VA (heater)
Operating temperature	-5060°C (with heater)
Operating rel. humidity	0100% RH
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	0
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% (035m/s) ±5% (>35m/s) RMS
Resolution	0.1 m/s







