



WS200-UMB

Applications

Meteorological Observation
Hydro-Meteorological Monitoring
Solar Energy
Wind Energy
Road Weather Monitoring
Aviation Weather Monitoring
Railway Weather Monitoring
Building Automation

Compact Wind Sensor

Automatic wind measurement station

Intelligent measurement transducers with digital interface for environmental applications

Designed to measure: Wind direction and speed

One external temperature or rain sensor is connectable

Maintenance-free operation – no moving parts that can wear out

Open communication protocol

Two-in-one wind sensor

Two-in-one housing concept of a compact wind sensor combining measurement of wind direction and speed in one housing with only one cable connection. Built-in data pre-processing, universal interfaces and selectable output protocols.

Versatile Compatibility

Compatible with most commercially available dataloggers for solar energy or hydro-meteorological systems thanks to an open communication protocol.

Suitable for all climate zones

Due to its integrated heater, the WS200 can operate even in cold conditions with the risk of snowfall and frost.

Protocols and interfaces

Easy integration via RS-485 with supported protocols UMB-Binary, UMB-ASCII, Modbus-RTU, Modbus-ASCII, XDR and SDI-12.

Technical Specifications

WS200-UMB	
Article number	8371.1
Dimensions	Ø 150 mm, height 194 mm
Weight	800 g
Interface	RS-485, 2-wire, half-duplex
Supply voltage	4...32 VDC (5 ... 11 VDC; only electronics supply with limited performance)
Nominal voltage	24 VDC +/- 10 %
Power consumption	16 mA at 24 VDC, resulting in a power of approximately 0.38 W
Operating temperature	-50 ... 60 °C
Operating relative humidity	0 ... 100 % RH
Protection level housing	IP66
Mast mounting suitable for	Mast diameter 60 ... 76 mm
Wind direction	Ultrasonic
Principle	0 ... 359.9 °
Measuring range	°
Unit	< 3° RMSE > 1.0 m/s
Accuracy	0.1 °
Resolution	
Wind speed	Ultrasonic
Principle	0 ... 75 m/s
Measuring range	m/s
Unit	±0.3 m/s or 3 % (0 ...35 m/s) ±5 % (> 35 m/s) RMS
Accuracy	0.1 m/s
Resolution	

Dimensions

