

# Lufft WS200-UMB – Ultrasonic Wind Sensor, Electronic Compass

From the WS product family of professional intelligent measurement transducers with digital interface for environmental applications.

Integrated design for measuring:

- Wind direction
- Wind speed

Ultrasonic sensor technology is used to take wind measurements.

Measurement output can be accessed by the following protocols:  
UMB-Binary, UMB-ASCII, SDI-12, MODBUS

**One external temperature or rain sensor is connectable.**

Lufft WS200-UMB Smart Weather Sensor			Order No.
<b>WS200-UMB</b>			<b>8371.U01</b>
<b>Technical Data</b>	Dimensions	Ø approx. 150mm, height approx. 194mm	
	Weight	Approx. 0.8kg	
<b>Wind direction</b>	Principle	Ultrasonic	
	Measuring range	0 ... 359.9°	
	Accuracy	< 3° RMSE >1.0m/s	
<b>Wind speed</b>	Principle	Ultrasonic	
	Measuring range	0 ... 75m/s	
	Accuracy	± 0.3 m/s or 3% (0 ... 35m/s) RMS of reading, whichever is greater, ± 5% (>35m/s) RMS	
<b>General Information</b>	Heating	20VA at 24VDC	
	Protection type housing	IP66	
	Interface	RS485, 2-wire, half-duplex	
	Op. power consumption	4...32 VDC	
	Operating humidity range	0 ... 100 %	
	Op. temperature range	-50 ... 60° C	
<b>Accessories</b>	Surge protection		<b>8379.USP</b>
	Power supply 24V/4A		<b>8366.USV1</b>
	UMB Interface converter ISOCON-UMB		<b>8160.UI50</b>
	Digital-analog-converter DACON8-UMB		<b>8160.UDAC</b>
	Temperature Sensor WT1		<b>8160.WT1</b>
	Road Surface Temperature Sensor WST1		<b>8160.WST1</b>
	Rain Sensor WTB100		<b>8353.10</b>
	Connection cable, 20m		<b>8370.UKAB20</b>



Ultrasonic wind measurement

Open communication protocol:

- UMB-ASCII
- UMB-Binary
- SDI-12
- MODBUS

- Analogue outputs in combination with 8160.UDAC

Third-Party-Rain gauge sensors are compatible: 0.1mm, 0.2mm, 0.5mm, 1mm heated and unheated.