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 protocolls: UMB-Binary, UMB-ASCII, SDI-12, MODBUS

One external temperature or rain sensor is connectable.

Lufft WS200-UMB	Smart Weather Sensor		Order No.
WS200-UMB			8371.U01
Technical data	Dimensions	Ø approx. 150 mm, height approx. 194mm	
	Weight	approx. 0.8 kg	
Wind direction	Principle	Ultrasonic	
	Measuring range	0359.9°	
	Accuracy	< 3 ° RMSE >1.0 m/s	
Wind speed	Principle	Ultrasonic	
	Measuring range	075 m/s	
	Accuracy	$\pm 0.3\text{m/s}$ or 3 % (0 35 m/s) RMS of reading, whichever is greater $\pm 5\%$ (>35 m/s) RMS	
General information	Heating	20 VA at 24 VDC	
	Protection type housing	IP66	
	Interface	RS485, 2-wire, half-duplex	
	Op. power consumption	432 VDC	
	Operating humidity range	0100%	
	Op. temperature range	-5060°C	
Accessories	Surge protection		8379.USP
	Power supply 24 V/4 A		8366.USV1
	UMB interface converter ISOCON-UMB		8160.UISO
	Digital-analog-converter DACON8-UMB		8160.UDAC
	Temperature sensor WT1		8160.WT1
	Road surface temperature sensor WST1		8160.WST1
	Rain sensor WTB100		8353.10
	Connection cable, 20m		8370.UKAB2





Ultrasonic wind measurement

Open communication protocol:

- UMB-ASCII
- UMB-Binary
- SDI-12
- MODBUS
- Analoge outputs in combination with 8160.UDAC

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