## Lufft WS300-UMB - Temperature, Air Pressure, **Relative Humidity**

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

Integrated design with ventilated radiation protection for measuring:

- Air temperature
- Relative humidity
- Air pressure

Relative humidity is measured by means of a capacitive sensor element; a precision NTC measuring element is used to measure air temperature.

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 WS300-UMB S	Smart Weather Sensor		Order No.
WS300-UMB			8372.U01
Technical data	Dimensions	Ø approx. 150 mm, height approx. 223 mm	
	Weight	approx. 1.0 kg	
Temperature	Principle	NTC	
	Measuring range	-5060°C	
	Accuracy	±0.2 °C (-20 °C 50 °C), otherwise ±0.5 °C (>-30 °C)	
Relative humidity	Principle	Capacitive	
	Measuring range	0100 % RH	
	Accuracy	±2 % RH	
Air pressure	Principle	MEMS Capacitive	
	Measuring range	3001200 hPa	
	Accuracy	±0.5 hPa (0 40°C)	
General i	Interface	RS485, 2-wire, half-duplex	
nformation	Protection type housing	IP66	
	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.UKAB





Aspirated temperature/humidity 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.

