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 Smart Weather Sensor			Order No.
WS300-UMB			**8372.U01**
Technical Data	Dimensions	Ø approx. 150 mm, height approx. 223 mm	
	Weight	Approx. 1kg	
Temperature	Principle	NTC	
	Measuring range	−50…60 °C	
	Accuracy	± 0.2 °C (−20 °C … +50 °C), otherwise ± 0.5 °C (>−30 °C)	
Relative humidity	Principle	Capacitive	
	Measuring range	0…100 % RH	
	Accuracy	± 2 % RH	
Air pressure	Principle	MEMS Capacitive	
	Measuring range	300…1200 hPa	
	Accuracy	± 0.5 hPa (0 … +40°C)	
General Information	Interface	RS485, 2-wire, half-duplex	
	Protection type housing	IP66	
	Op. power consumption	4...32 VDC	
	Operating humidity range	0…100 %	
	Op. temperature range	−50…60 °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.UKAB20**

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: 0.1mm, 0.2mm, 0.5mm, 1mm heated and unheated.

for further information please refer to www.gsg-e-shop.com | Phone no.: +49 931 / 30 40 8-0