

# WS300-UMB - TEMPERATURE, RELATIVE HUMIDITY, AIR PRESSURE

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 data are available for further processing in the form of a standard protocol (Lufft-UMB protocol).

<b>WS300-UMB Compact weather station</b>	<b>8372.U01</b>
-Dimensions	Ø ca. 150mm, Height ca. 225mm, Weight approx. 1,2kg
<b>Temperature</b>	
-Principle	NTC
-Measuring range	-30...70°C
-Accuracy	±0,2°C (-20°C...+50°C), otherwise ± 0,5°C
<b>Relative humidity</b>	
-Principle	capacitive
-Measuring range	0...100 % RH
-Accuracy	±2% RH
<b>Air Pressure</b>	
-Principle	MEMS capacitive
-Measuring range	300...1200 hPa
-Accuracy	±1,5hPa
<b>General information</b>	
-Interface	RS485, 2-wire, half-duplex
-Operating power consumption	24VDC +/- 10% <4VA
-Operating humidity range	0...100%
-Operating temperature range	-30...70°C
<b>Surge protection</b>	<b>8379.USP</b>
<b>Power supply 24V/4A</b>	<b>8366.USV1</b>
<b>UMB interface converter ISOCON</b>	<b>8160.UISO</b>



Radar-based precipitation detection  
Aspirated temperature/humidity measurement  
Open communication protocol