

OAmmonit

Lufft Weather Station (WS200- / WS300-UMB)

S85800H / S55300

کد سفارش : بدون هیتر / هیتردار

ایستگاه هواشناسی کامپکت شرکت لوفت مدلهای ۲۰۰ و۳۰۰

Compactweather station for measurement of • wind speed and wind direction (2D ultrasonic) or air pressure, temperature and relative hu-midity

- RS485interface
- MODBUScommunication protocol



Description

The Lufft compact weather stations with Universal Measurement Bus (UMB) are designed for recording environmental data. The WS series provides a comprehensive range of environmental sensors for recording wind speed and wind direction as well as air pressure, temperature, relative humidity and precipitation. The compact weather stations in particular are outstanding due to their unrivaled price-performance ratio. The top-of-the-range model, WS600-UMB, incorporates sensors for temperature, humidity, precipitation, air pressure, wind direction and wind speed.

Wind data is measured by 2D ultrasonic. The measurement principle for temperature is NTC, air pressure and relative humidity are measured capactive.

The electrical connection for all UMB compact weather stations is made via a standard plug connector system. This keeps installation and service costs to a minimum. All UMB compact weather stations can be polled by means of a standard protocol. Once data polling has been incorporated for one sensor, additional sensors can be added by easy parameterization of the data polling system.

Channel-oriented sensor data polling delivers a large number of computed variables in metric and US format, hence there is no need for conversion by the user. Sensors can be configured, equipment tested and firmware updated with the free configuration software (UMBConfig-Tool).

Overview Lufft Weather Stations

	WS200-UMB	WS300-UMB	WS500-UMB	WS600-UMB
Wind speed	Х		х	х
Wind direction	Х		х	х
Temperature		Х	х	х
Air pressure		Х	Х	х
Rel. humidity		Х	х	х
Precipitation type				х
Precipitation intensity				х
Rain accumulation				х

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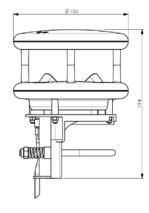
Lufft Weather Station (WS200- / WS300-UMB)

S85800H / S55300

Specifications

	WS200-UMB	WS300-UMB			
Order-No.	S85800H	S55300			
Wind					
Measurement principle	Ultrasonic	-			
Wind speed range	0 75 m/s	-			
Wind speed accuracy	± 0.3 m/s or 3% (0 35 m/s) RMS of reading, which is greater $\pm 5\%$ (>35 m/s)	-			
Wind direction range	0 359.9°	-			
Wind direction accuracy	< 3° RMSE > 1.0 m/s	-			
Air pressure					
Measurement range	-	300 1200 hPa			
Accuracy	-	±0.5hPa (0 40°C)			
Temperature					
Measurement range	-	-50 60°C			
Accuracy	-	$\pm 0.2^{\circ}\text{C}$ (-20 50°C), otherwise $\pm 0.5^{\circ}\text{C}$			
Rel. humidity					
Measurement range	-	0 100% RH			
Accuracy	-	±2% RH			
General information					
Power supply	12-24 V DC ±10%				
Heating	20 VA @ 24 V DC				
Interface	RS485, 2-wire, half-duplex (MODBUS communication protocol)				
Connection	8-pole screw connector				
Operating temperature range	-50 60°C				
Operating humidity range	0 10	0% RH			
Dimension / Weight	Ø 150mm, height: 194mm / 0.8kg	Ø 150mm, height: 223mm / 1.0kg			
Protection type housing	IP66				
Cable length	10m (contact us for other cable length)				
Accessories	RS485 module for data logger Meteo-40 (Order-No: M83551)				

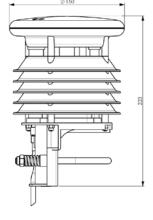
Dimensional Drawing



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