COMPACT WEATHER
STATION WS600-UMB

Item-No.: 423.306

**DESCRIPTION OF FUNCTIONS**

The WS600-UMB compact weather station is used to measure air temperature, intensity of precipitation, type of precipitation, quantity of precipitation, air pressure, wind direction and wind speed. Furthermore, it has an RS485 Modbus interface, which guarantees an easy connection to every meteocontrol data logger.

**TECHNICAL DATA**

| **Supply voltage for the sensors:** | 4 ... 32 V DC, limitations apply in case of supply voltages lower than 12 V DC, recommended is 24 V DC |
| **Power consumption sensors:** | 3,84 W (without heating) |
| **Supply voltage heating:** | 12 ... 24 V DC, functional restrictions in winter operation on voltages lower than 24 V DC |
| **Power consumption heating:** | 40,8 W |
| **Interface:** | RS485, 2 wire, half-duplex |
| **Operating temperature:** | -50 ... 60 °C |
| **Rel. humidity:** | 0 ... 100 % r. h. |
| **Protection class:** | IP 66 |
| **Cable length:** | 10 m |
| **Gewicht:** | approx. 1,5 kg |
| **Dimensions:** | Ø approx. 150 mm, height approx. 343 mm |

**TEMPERATURE**

- **Principle:** NTC
- **Measuring range:** -50 ... 60 °C
- **Accuracy:** ±0,2 °C (-20 ... 50 °C), otherwise ±0,5 °C (> -30 °C)

**REL. HUMIDITY**

- **Principle:** capacitive
- **Measuring range:** 0 ... 100 % r. h.
- **Accuracy:** ± 2 % r. h.

**AIR PRESSURE**

- **Principle:** MEMS capacitive
- **Measuring range:** 300 ... 1200 hPa
- **Accuracy:** ±0,5 hPa
WIND DIRECTION
Principle: Ultrasound
Measuring range: 0 ... 359.9 °
Accuracy: < 3 ° RMSE, > 1.0 m/s

WIND SPEED
Principle: Ultrasound
Measuring range: 0 ... 75 m/s
Accuracy: ± 0.3 m/s or 3 % (0 ... 35 m/s) RMS (whichever figure is the higher) ± 5 % (> 35 m/s) RMS

QUANTITY OF PRECIPITATION
Resolution: 0.01 mm
Reproducibility: typically > 90 %
Measurement range drop size: 0.3 ... 5 mm
Type of precipitation: Rain / Snow

CONFIGURATION
Interface: RS485
Protocol: Modbus RTU
Baud rate: 19200
Address range: 71 to 80, see identification label
Data format: 8N1

MEASUREMENT VALUES RECORDED
E_AH_REL Humidity relative
E_AP_REL Air pressure relative
E_W_D Wind direction
E_AT Air temperature
E_W_S Wind speed
E_RF_ABS Precipitation absolute
E_RF_I Precipitation / hour
E_AH_ABS Humidity absolute
E_AP_ABS Air pressure absolute

Further information: www.meteocontrol.com