



**Compact all-in-one weather sensor for measurement of temperature, relative humidity and air pressure.**

- **Parameters measured**  
Temperature, relative humidity, air pressure
- **Measurement technology**  
NTC/T, Capacitive/RH, MEMS capacitive/Pressure
- **Product highlights**  
Compact all-in-one weather sensor, low power, aspirated radiation shield, maintenance-free operation, open communication protocol
- **Interfaces**  
RS485 with supported protocols UMB-Binary, UMB-ASCII, Modbus-RTU, Modbus-ASCII, XDR and SDI-12
- **Article number**  
8372.U01

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 and air pressure. One external temperature or rain sensor is connectable.

| General    |   |
|------------|---|
| Dimensions | Ø approx. 150 mm, height approx. 223 mm |
| Weight     | Approx. 1 kg                            |

|                            |   |
|----------------------------|---|
| Interface                  | RS485, 2 - wire, half - duplex                                  |
| Power supply               | 4...32 VDC  |
| Power supply               | 5...11 VDC (electronics with limited precision of measurements) |
| Power supply               | 24 VDC +/- 10%  |
| Power consumption          | 135mA at 24VDC, resulting in a power of approx. 3.25W           |
| Operating temperature      | -50...60 °C   |
| Operating rel. humidity    | 0...100 % RH  |
| Cable length               | 10 m  |
| Protection level housing   | IP66  |
| Standards/Regulations      | Compliant to IEC 61724-1:2017                                   |
| Mast mounting suitable for | Mast diameter 60 - 76 mm  |

| Temperature     |  |
|-----------------|--|
| Principle       | NTC  |
| Measuring range | -50 ... 60 °C                                      |
| Unit            | °C   |
| Accuracy        | ±0.2 °C (-20...50 °C), otherwise ±0.5 °C (>-30 °C) |

| Relative humidity |                |
|-------------------|----------------|
| Principle         | Capacitive     |
| Measuring range   | 0 ... 100 % RH |
| Unit              | % RH           |
| Accuracy          | ±2 % RH        |

| Air pressure    |                      |
|-----------------|----------------------|
| Principle       | MEMS capacitive      |
| Measuring range | 300 ... 1200 hPa     |
| Unit            | hPa                  |
| Accuracy        | ±0.5 hPa (0...40 °C) |