



The radar precipitation sensor Lufft R2S-UMB allows fast measurement of precipitation intensity and distinguishes between precipitation type (Rain, snow, sleet, freezing rain, hail). The operation is maintenance-free, thanks to radar measurement technology

- **Parameters measured**  
Rain/precipitation quantity, rain/precipitation type (Rain, snow, sleet, freezing rain, hail)
- **Measurement technology**  
24GHz Doppler radar
- **Product highlights**  
Very fast response time, maintenance-free measurement, present weather detection
- **Interfaces**  
RS-485, various RS-485-protocols
- **Article number**  
8367.U01

The speed rate of drops is registered with a 24 GHz doppler radar system. By comparison between the speed rate and the size of drops, the quantity of rain or its intensity will be registered. The road condition (rain/snow/snow-covered rain/freezing rain/hail) is determined thanks to the speed rate of the rain. Resolution up to 0.01mm, without maintenance.

**IMPORTANT:** Precipitation Sensor R2S-UMB is discontinued

# Technical Data

Precipitation Sensor R2S-UMB - discontinued



Please check the alternative: [WS100](#)

| General                           |  |
|-----------------------------------|--|
| Resolution liquid precipitation   | 0.01...0.1...1.0mm/m <sup>2</sup>                                  |
| Power supply                      | 4...32 VDC   |
| Power consumption without heating | 2VA  |
| Heater power                      | 30VA   |
| Operating temperature range       | -40...60°C   |
| Operating humidity range          | 0...100%   |
| Protection type                   | IP66   |
| Interface                         | RS485 semiduplex wire, UMB protocol, pulse and frequency interface |
| Cable length                      | 10m  |
| Type of precipitation             | Rain, snow, sleet, freezing rain, hail                             |
| Measuring range hail              | 5.1...ca. 30mm   |

| Precipitation             |               |
|---------------------------|---------------|
| Principle                 | Doppler-radar |
| Reproducibility           | Typical >90%  |
| Measuring range drop size | 0.3...5mm     |