



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

Please check the alternative: [WS100](#)

| General | |
|-----------------------------------|--|
| Resolution liquid precipitation | 0.01...0.1...1.0mm/m ² |
| 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 |