



## Precipitation Sensor R2S-UMB

The drop speed is captured with a 24-GHz-Doppler radar. The precipitation quantity and intensity is calculated from the correlation between drop size and speed.

The type of precipitation (rain, snow, sleet, freezing rain, hail) is detected from the difference in drop speed.

The measurement data is available for further processing in the form of a standard protocol (UMB protocol).

### Features:

- Maintenance-free
- Fast response time
- Present Weather detector
- Resolution 0.01 mm

### DATA SUMMARY

#### TECHNICAL DATA

• 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 semi duplex 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

