R2S-UMB - PRECIPITATION SENSOR (PRESENT WEATHER DETECTOR)

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 are available for further processing in the form of a standard protocol (Lufft UMB protocol).

Technical Data	Order No.
R2S-UMB Precipitation sensor	8367.U01 EU, USA, Canada
with UMB, pulse and frequency interface	8367.U02 UK
Measuring range drop size	0.3...5.0mm
Measuring range hail	5.1...ca. 30mm
Resolution liquid precipitation	0.01...0.1...1.0mm/m²
Type of precipitation	Rain, snow, sleet, freezing rain, hail
Reproducibility	Typical >90%
Interface	RS485 half-duplex, UMB protocol
Power consumption	24VDC (22...28VDC)
Power supply	ca. 30VA (24V)
Operating temperature range	-30...70°C
Operating humidity range	0...100%
Connecting cable	Included in delivery

Accessories	Order No.
UMB interface converter ISOCON	8160.UISO
Power supply 24V/4A	8366.USV1
Protection shield for R2S	8367.SCHIRM
Surge protection	8379.USP

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

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