

R2S-UMB – Precipitation Sensor (Present Weather Detector)

Sales & Support
 Intermountain Environmental
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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 (Lufft UMB protocol).

R2S-UMB Precipitation Sensor			Order No.
R2S-UMB EU, USA, Canada			8367.U01
R2S-UMB UK			8367.U02
Technical Data	Resolution liquid precipitation	0.01 ... 0.1 ... 1.0 mm/m ²	
	Power supply	20 ... 28 VDC	
	Power consumption without heating	2 VA	
	Heating power/24V	30 VA	
	Op. temperature range	-30 ... 70 °C	
	Op. humidity range	0 ... 100 %	
	Protection	IP67	
	Interface	RS485 semiduplex wire, UMB protocol, pulse and frequency interface	
	Cable length	10 m	
	Measuring range hail	5.1 ... approx. 30 mm	
	Type of precipitation	Rain, snow, sleet, freezing rain, hail	
Precipitation	Principle	Doppler-Radar	
	Reproducibility	typ. > 90 %	
	Measuring range drop size	0.3 ... 5 mm	
Accessories	UMB Interface converter ISOCON		8160.UISO
	Power supply 24V/4A		8366.USV1
	Protection shield for R2S ISOCON		8367.SCHIRM
	Traverse for R2S + WS500		8367.TRAV
	Surge protection		8379.USP
	Digital-analog-converter		8160.UDAC

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

