

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

Lufft R2S-UMB Precipitation Sensor			Order No.
<b>R2S-UMB</b> EU, USA, Canada			<b>8367.U01</b>
<b>R2S-UMB</b> UK			<b>8367.U02</b>
<b>Technical Data</b>	Resolution liquid precipitation	0.01 ... 0.1 ... 1.0 mm/m <sup>2</sup>	
	Power supply	20 ... 28 VDC	
	Power consumption without heating	2 VA	
	Heating power	30 VA	
	Op. temperature range	-40...+60°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		
<b>Precipitation</b>	Principle	Doppler-Radar	
	Reproducibility	typ. > 90 %	
	Measuring range drop size	0.3 ... 5 mm	
<b>Accessories</b>	UMB Interface converter ISOCON-UMB		<b>8160.UISO</b>
	Power supply 24 V/4 A		<b>8366.USV1</b>
	Protection shield for R2S-UMB		<b>8367.SCHIRM</b>
	Traverse for R2S-UMB + WS500-UMB		<b>8367.TRAV</b>
	Surge protection		<b>8379.USP</b>
	Digital-analog-converter DACON8-UMB		<b>8160.UDAC</b>
	Connection cable, 20m		<b>8370.UKAB20</b>

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

