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.
R2S-UMB EU, USA, Canada			**8367.U01**
R2S-UMB UK			**8367.U02**
Technical Data	Resolution liquid precipitation	0.01…0.1…1mm/m²	
	Power supply	20…28VDC	
	Power consumption without heating	2VA	
	Heating power	30A	
	Op. temperature range	-40...+60°C	
	Op. humidity range	0…100%	
	Protection	IP66	
	Interface	RS485 semiduplex wire, UMB protocol, pulse and frequency interface	
	Cable length	10m	
	Measuring range hail	5.1… Approx. 30mm	
	Type of precipitation	Rain, snow, sleet, freezing rain, hail	
Precipitation	Principle	Doppler-Radar	
	Reproducibility	Typ. > 90%	
	Measuring range drop size	0.3…5mm	
Accessories	UMB Interface converter ISOCON-UMB		**8160.UISO**
	Power supply 24V/4A		**8366.USV1**
	Protection shield for R2S-UMB		**8367.SCHIRM**
	Traverse for R2S-UMB + WS500-UMB		**8367.TRAV1**
	Surge protection		**8379.USP**
	Digital-analog-converter DACON8-UMB		**8160.UDAC**
	Connection cable, 20m		**8370.UKAB20**

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