

Lufft VS2k-/ VS20k-UMB – Visibility Sensor

- > **Measuring range up to 20 km**
- > **Active defense against spiders**
- > **Contamination detection**
- > **Anodized housing**



Fog is caused by large temperature differences between day and night and is a micro-climatic event.



The degree of contamination of the sensor is transmitted together with the measured values and serves to alert proactive maintenance.



Verification in the field is carried out using a calibration disc. As a further control point, the zero point is checked ("in the dark").



Sensors with different measuring ranges are available for different applications. Up to 100 km.



Saturated air, fine dust and sand lead to reduced visibility. Meteorological networks and airport-applications require a large measuring range. If the VS20k returns the maximum measurement value, the visibility can be identified as clear.

In future, spiders will have to find another place for their webs.

Lufft VS2k-/ VS20k-UMB – Visibility Sensor

- Measures visibility up to 2.000/ 20.000 m
- Ideal for road traffic applications
- Analog output 4...20 mA
- Digital UMB protocol (RS485 interface)
- Calibration device available (optional)

The VS2k-/ VS20k-UMB is configured via the software UMB

Config Tool:

- Reading/Changing of the current configuration
- Calibration
- Polling of the current measurement values
- The software allows configurations to be loaded and stored

The measurement data is available for further processing in the form of a standard protocol (Lufft UMB protocol or SDI12).

Less maintenance activities necessary thanks to **lens contamination detection** and active spider defense housing construction.

Lufft VS2k-/VS20k-UMB Visibility Sensor			Order No.
VS2k-UMB	Measuring range	10...2.000 m	8366.U70
VS20k-UMB	Measuring range	10...20.000 m	8366.U90
Technical data	Output signal	4...20 mA/ 20...4 mA	
	Interface	RS485 semi-duplex wire, UMB protocol, SDI12	
	Protection	IP66	
	Weight	Approx. 4 kg	
	Dimensions	500 x 230 x 80 mm	
	Op. temperature range	-40...60 °C	
	Power supply	Typ. 24 VDC (22...28 VDC) 3W; Peak 10W	
	Included in delivery	Connection cable	
	Value update	1 minute	
Visibility	Cable length	10 m	
	Principle	Forward scattered light procedure	
	Unit	m	
Accessories	Accuracy	±10m or ±10 %, highest value applies	
	UMB Interface converter ISOCON-UMB		8160.UISO
	Connecting cable		8366.UKAB10
	Power supply 24 V/4 A		8366.USV1
	Surge protection		8379.USP



- 10...2.000 or 10...20.000 m measurement range
- Calibration kit (optional)
- Forward light scatter technique
- Sea waterproof housing
- Active spider defense
- Lens contamination detection