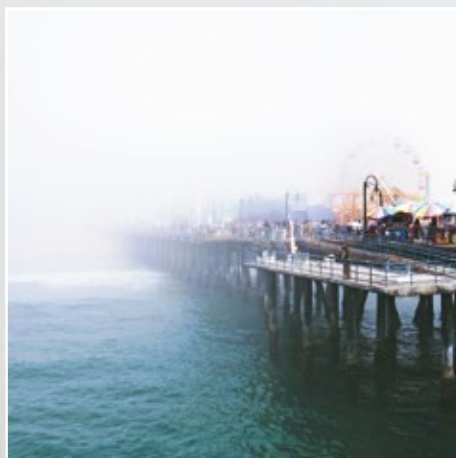


# Lufft VS2k-/ VS20k-UMB – Visibility Sensor

- > **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- or VS20k-UMB can be configured via the UMB-Config Tool .NET:

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

## ASD = Active Spider Defense:

The measurement data is issued 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.
<b>Product variants</b>	VS2k-UMB	Measurement range 10...2.000 m	<b>8366.U70</b>
	VS20k-UMB	Measurement range 10...20.000 m	<b>8366.U90</b>
<b>Technical Data</b>	Output signal	4...20mA/20...4mA	
	Interfaces	RS485 semi-duplex wire, UMB protocol, SDI-12	
	Protection class	IP66	
	Weight	~ 4 kg	
	Dimensions	500x230x80 mm	
	Op. temperature range	-40...60 °C	
	Power supply	typ. 24 VDC (22...28 VDC) 3W; max. 10 W	
	Included in delivery	Connection cable	
	Value update frequency	1 min	
Cable length	10 m		
<b>Visibility</b>	Principle	Forward scattered light procedure	
	Unit	m	
	Accuracy	±10 m or ±10 %, whichever is greater	
<b>Accessories</b>	UMB interface converter ISOCON-UMB		<b>8160.UIISO</b>
	Connection cable		<b>8366.UKAB10</b>
	Power supply 24V/4A		<b>8366.USV1</b>
	Surge protection		<b>8379.USP</b>



- 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