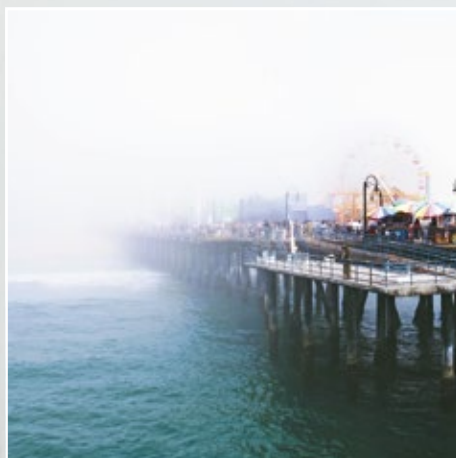


# Lufft VS2k/VS20k-UMB – Visibility Sensor

- > **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.



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



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



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



Saturated air, fine dust and sand cloud the atmosphere and 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-UMB – Visibility Sensor

- Measures visibility up to 2000m
- Ideal for road traffic applications
- Analog output 4...20mA
- Digital UMB protocol (RS485 interface)
- Calibration device available (optional)

The VS2k-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).

## ASD = Active Spider Defense:

Less maintenance activities through lens contamination detection and active spider defense housing construction.

Lufft VS2k-UMB Visibility Sensor		Order No.
<b>VS2k-UMB</b>	Measuring range 10...2000m	<b>8366.U70</b>
<b>Technical data</b>	Output signal	4...20mA/20...4mA
	Interface	RS485 semi-duplex wire, UMB protocol, SDI12
	Protection	IP66
	Weight	Approx. 4kg
	Dimensions	500 x 230 x 80 mm
	Op. temperature range	-40...60 °C
	Power supply	Typ. 24VDC (22...28 VDC) 3W; Peak 10W
	Included in delivery	Connection cable
	Value update	1 minute
	Cable length	10m
<b>Visibility</b>	Principle	Forward scattered light procedure
	Unit	m
	Accuracy	±10m or ±10%, highest value applies
<b>Accessories</b>	UMB Interface converter ISOCON-UMB	<b>8160.UIISO</b>
	Connecting cable	<b>8366.UKAB10</b>
	Power supply 24V/4A	<b>8366.USV1</b>
	Surge protection	<b>8379.USP</b>

- 10 ... 2000m measurement range
- Calibration kit (optional)
- Forward light scattering technique
- Sea waterproof housing
- Active spider defense
- Lens contamination detection

