



Quality

For Long-Term Visibility

In fog, a visibility of more than 500 meters is not a problem as an impact on traffic is not expected. However, extremely precise measurements have to be taken within the low measurement ranges. The level of danger is at its highest when visibility drops below 50 metres, which is why in such cases speed limits of 40-60 km/h are displayed on dynamic or variable message signs. Nevertheless, traffic limitations are imposed as soon as visibility drops to 250 metres. Fog is precisely detected within a range of 10 to 2,000 metres with the visibility sensor VS20.

Lufft VS20-UMB – Visibility Sensor

- Measures visibility up to 2000 m / 3000 m
- Ideal for road traffic applications
- Analog output 4...20 mA
- Digital UMB protocol (RS485 interface)
- Calibration device available (optional)

The VS20 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).

| Lufft VS20-UMB Visibility Sensor | | Order No. |
|----------------------------------|------------------------------------|---------------------------------------|
| VS20-UMB | Measuring range 10 ... 2000 m | 8366.U50 |
| VS20-UMB | Measuring range 10 ... 3000 m | 8366.U60 |
| Technical Data | Output signal | 4 ... 20 mA / 20 ... 4 mA |
| | Interface | RS485 semi-duplex wire, UMB protocol |
| | Protection | IP66 |
| | Weight | approx. 4 kg |
| | Dimensions | 360 x 180 x 80 mm |
| | Op. temperature range | -40 ... 60 °C |
| | Power supply | typ. 24 VDC (22 ... 28 VDC) 3 W |
| | Included in delivery | Connection cable |
| | Value update | 1 minute |
| Visibility | Cable length | 10 m |
| | Principle | Forward scattered light procedure |
| | Unit | m |
| Accessories | Accuracy | ±10 m or ±10 %, highest value applies |
| | UMB Interface converter ISOCON-UMB | 8160.UISO |
| | Connecting cable | 8366.UKAB10 |
| | Calibration kit visibility | 8366.UKAL1 |
| | Power supply 24 V/4 A | 8366.USV1 |
| | Surge protection | 8379.USP |



10 ... 2000 m measurement range
 Calibration kit (optional)
 Forward light scattering technique