



New product version of the known Lufft VS20 visibility sensor with a measurement range of 10...20'000m, easy calibration functionality, sea waterproof housing and (active) spider defense

- **Parameters measured**
Visibility (measuring range 10 ... 20'000 m, resolution 1m)
- **Measurement technology**
45° forward light scattering
- **Product highlights**
suitable for extreme ambient conditions, active spider defense, seawater resistant, compatible interfaces
- **Interfaces**
RS-485, analogue output
- **Article number**
8366.U90

The VS20k visibility sensor measures visibility up to 20'000 m, ideal for road traffic applications on motorways, highways or bridges. A calibration device is available (optional). The 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 the standard protocol Lufft UMB.

ASD = Active Spider Defense: The built-in vibrating motor ensures at irregular intervals that the VS2k visibility sensor is not so prone to spiders. The construction of VS2k also reduces the frequency of maintenance.

| General | |
|----------------------|---|
| Dimensions | 500x230x80mm |
| Weight | Approx. 4kg |
| Protection type | IP66 |
| Interfaces | RS485 (2-wire, half duplex); Analogue output (4 - 20mA) |
| Value update | 1/minute |
| Included in delivery | Connection cable |
| Cable length | 10m |

| Storage conditions | |
|--------------------------------|--|
| Admissible storage temperature | -40...70°C |
| Operating rel. humidity | 0...100% RH (non condensing), 0 ... 98% (inside packaging) |

| Operating conditions | |
|-------------------------|---|
| Operating temperature | -40...60°C |
| Operating rel. humidity | 0...100% RH |
| Power supply | 20...30VDC; typical 24VDC |
| Power consumption | < 200mA (motor running and current outputs active), about 100mA in normal mode and RS485 output |
| Power consumption | 3W (typical), 10W (max.) |
| Protection class | III (SELV) |

| Visibility | |
|----------------------|------------------------|
| Principle | 45° forward scattering |
| Measuring range | 10 ... 20.000 m |
| Measuring resolution | 1 m |
| Unit | m |
| Accuracy | ±10% visibility |