



**New product version of the known Lufft VS20 visibility sensor with a measurement range of 10...2000m, easy calibration functionality, sea waterproof housing and (active) spider defence**

- **Parameters measured**  
Visibility (measuring range 10 ... 2000 m, resolution 1 m)
- **Measurement technology**  
45° forward light scattering
- **Product highlights**  
suitable for extreme ambient conditions, active spider defence, seawater resistant, compatible interfaces
- **Interfaces**  
RS-485, analogue output
- **Article number**  
8366.U70

The VS2k visibility sensor measures visibility up to 2000m, ideal for road traffic applications on motorways, highways or bridges. A calibration device is 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.

# Technical Data

## Visibility Sensor VS2k-UMB



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 ... 2000 m          |
| Measuring resolution | 1 m                    |
| Unit                 | m                      |
| Accuracy             | ±10% visibility        |