Technical Data
Visibility Sensor VS2k-UMB



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.

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