



**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, 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	508,5x230x85mm
Weight	Approx. 4kg
Protection class	III (SELV)
Protection type	IP66
Interfaces	RS485 (2-wire, half duplex); Analogue output (4 - 20mA)
Value update	1/minute

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

Electrical data	
Power supply voltage	20 to 30 V DC; typical 24 V DC; internally galvanically isolated
Inrush current at device startup and during normal operation when Active Spider Defense (ASD) is starting to run*	at 20 V DC: max. 2.5 A at 30 V DC: max. 4 A
Static current with running ASD with active RS-485 and current loop*	at 20 V DC: max. 600 mA at 30 V DC: max. 850 mA
Static current without active ASD with active RS-485 and current loop	at 20 V DC: max. 200 mA at 30 V DC: max. 150 mA

Visibility	
Principle	42° forward scattering
Measuring range	10 ... 20.000 m
Measuring resolution	1 m
Unit	m
Accuracy	±10% visibility