



VISIC620 Visibility Measuring Device

Usage on roads, sea routes and in
weather observation stations

VISIC620 – never leaves you standing in the fog



Traffic management systems

RELIABLE FOG DETECTION

The VISIC620 determines the range of vision on roads, sea routes or in weather observation stations. An automatic self-test measures possible front screen soiling and reliably recognizes objects such as leaves or plants in the optical path¹⁾. The VISIC620 can therefore “see” the fog reliably.

¹⁾ Patent applied for

ECONOMICAL OPERATION

After start-up, the VISIC620 runs just for you – independent, reliable and easy to maintain.

- Maintenance – only every 5 years (apart from cleaning). Further checks either on-site or easily per serial interface are expedient.
- Effective mechanical screens protect the front window from soiling too quickly. The fog sensor signals independently when cleaning is necessary.

PLUG & PLAY ON-SITE

- Minimum space requirements, low weight and integrated holder fixture mean easy assembly by just one fitter. And this at any position on a mast or a level, vertical wall.
- The unique optical design of the VISIC620 means it can even be fitted in cramped locations – irrespective of further devices or even metallic fixtures fitted in the vicinity.
- Plug and Play with sturdy connectors and very simple parameter setting

SOLAR OPERATION AND RADIO MODEM (OPTIONAL)

- Completely self-sufficient through solar panel and battery.
- GPRS communication: measured value and status transfers possible via integrated GSM/GPRS modem.

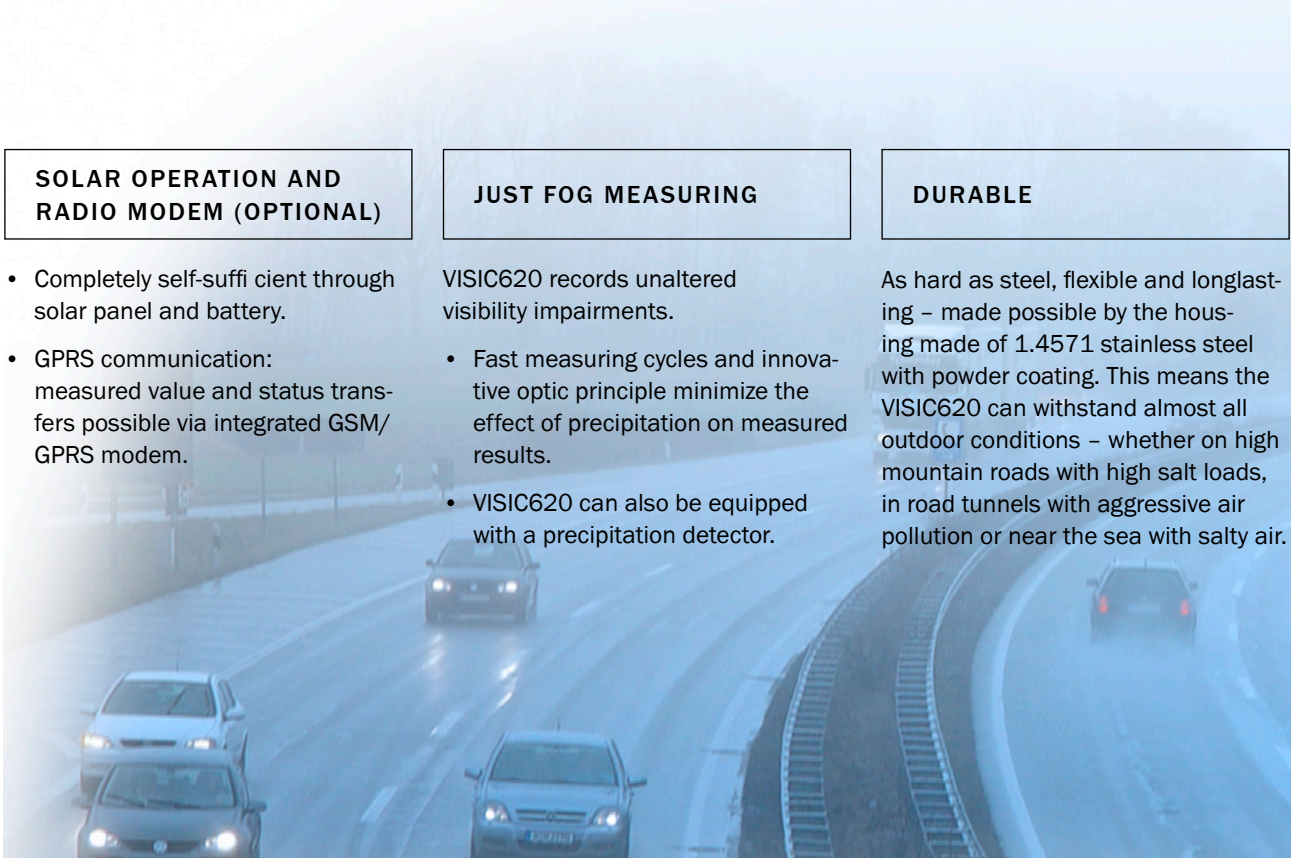
JUST FOG MEASURING

VISIC620 records unaltered visibility impairments.

- Fast measuring cycles and innovative optic principle minimize the effect of precipitation on measured results.
- VISIC620 can also be equipped with a precipitation detector.

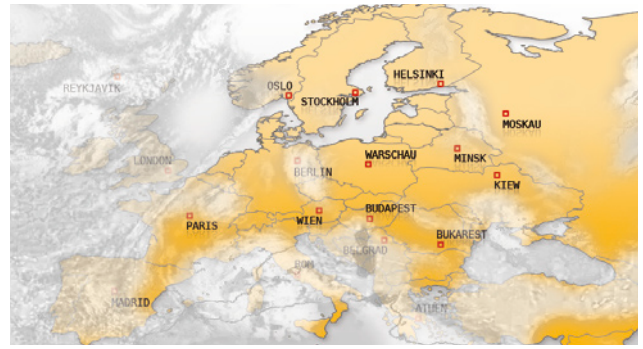
DURABLE

As hard as steel, flexible and longlasting – made possible by the housing made of 1.4571 stainless steel with powder coating. This means the VISIC620 can withstand almost all outdoor conditions – whether on high mountain roads with high salt loads, in road tunnels with aggressive air pollution or near the sea with salty air.



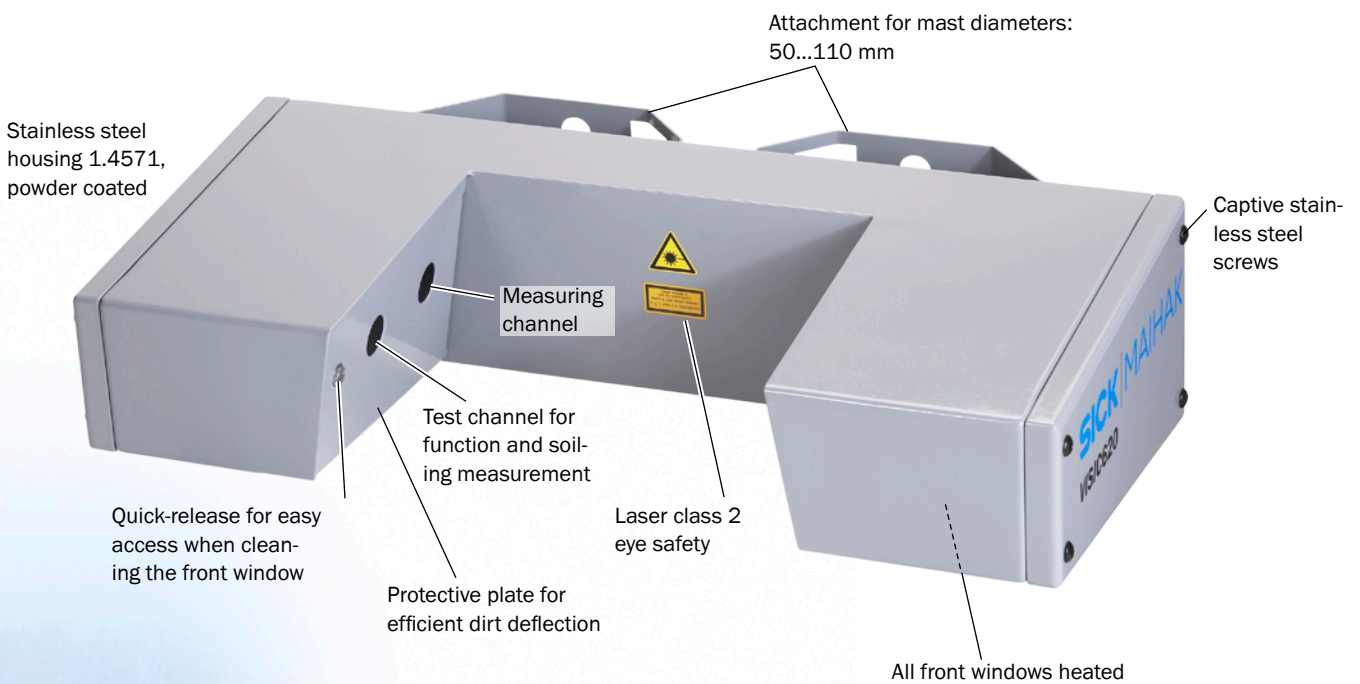


Light houses



Automatic weather stations (meteorology)

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BRIGHTNESS INFORMATION FOR DAY-NIGHT DETERMINATION

Our innovative VISIC620 can also output an uncalibrated brightness value via a digital interface. This can be used, for example, to allow different speeds during nighttime and daytime. Apart from that, the brightness at the tunnel portal can also be measured to then control the lighting at the tunnel entrance.

VISIC620 Technical Data				
Measuring data				
Measuring range (standard visibility)	Max.: 10 m ... 16 km Min.: 10 m ... 500 m			
Measuring principle	Scattered light, 30° forward scattering			
Resolution	1 m			
Response time (t ₉₀ time)	5 ... 600 s freely adjustable			
Repeat accuracy	± 2 % at 200 m visibility			
Functions				
Automatic self-test	Soiling, drift and function of the sender LED, all interfering objects in optical path			
Manual linearity check	With additional test set			
Brightness measuring	0 ... 100 uncalibrated units			
Device data				
Supply voltage U _v	24 V DC/AC ± 10 %, option: power supply adapter for 90 ... 264 V AC (50 ... 60 Hz)			
Power consumption	Incl. front window heating (VISIC620-xxx1x): approx. 7 W			
Light source	Laser diode, 650 nm, laser class 2			
Laser diode service life	50,000 hours at 20 °C			
Connection method	Socket, 8-pol. + PE, weatherproof			
Ambient temperature	<ul style="list-style-type: none"> • Operation: -30 °C ... +55 °C • Storage: -40 °C ... +75 °C 			
Protection class	IP 69K			
Weight	5.6 kg			
Dimensions	480 x 117 x 261 mm			
Housing	Stainless steel 1.4571, powder coated RAL 7042			
Signals and interfaces	VISIC620-1xxx	-2xxx	-3xxx	-4xxx
Service interface	RS232 for service			
Signals on connector contact	<ul style="list-style-type: none"> • Analog output • Relay output • Digital input 	1: 0...20 mA, 2: 48 V; DC max. 24 W; AC max. 35 VA 1: for potential-free contact (load 4 V/ 4.5 mA)	1: for potential-free contact (load 4 V/4.5 mA)	1: for potential-free contact (load 4 V/4.5 mA)
Interfaces on connector contact	-	RS485 (4-wire)	CAN bus Modem	Modem cable connection
Communication	VISIC620-14xxx	-42xxx	-43xxx	
Modem	Radio modem GSM/GPRS	Analog, 56k, standard	Analog, 56k, further countries	