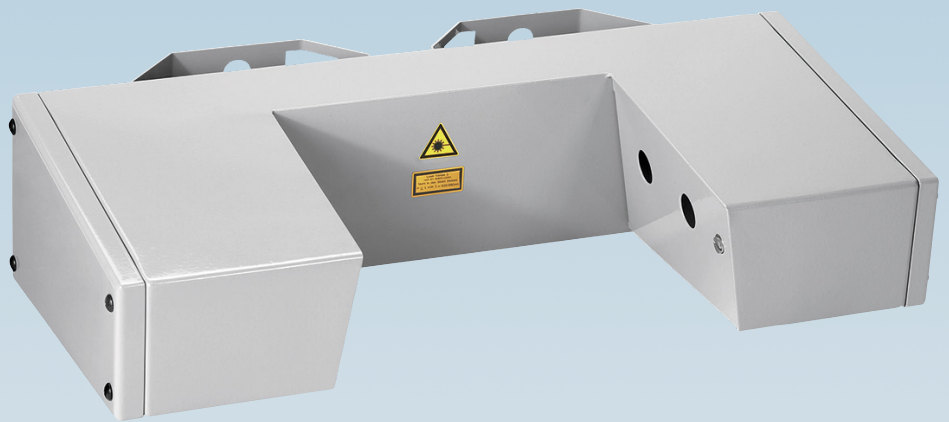


VISIC620

Visual range measuring device
for roads, tunnels, sea routes and
in weather stations

VISIC620 will not leave you
alone in the fog

- Reliable measured values
- Low operational costs
- Low maintenance requirements due to long maintenance intervals



VISIC620 will not leave you alone in the fog

Fog on the road presents a significant danger to drivers and is often underestimated. The VISIC620 visual range measuring device helps to prevent pileups in fog. Depending on

the measured visual range, the maximum allowed speed is specified on variable message signs.

Fog Measurement

Fast measuring cycles and an innovative optical principle of the visual range measuring device VISIC620 reduce the influence of humidity on the measuring results to a minimum. The automatic self-test measures the contamination of the front screen and recognizes objects such as leaves in the beam path. Retrofitting of the VISIC620 with a precipitation detector is optionally available. A brightness measurement for day-night distinction is additionally possible via a digital interface.

Plug & Play On-site

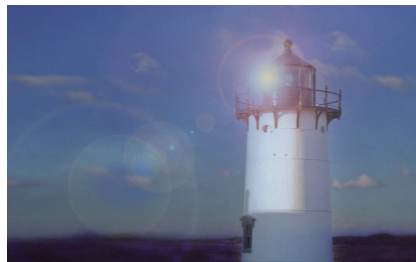
The VISIC620 offers minimum space requirement, low weight and integrated fixtures. It is also prepared for the installation at any optional position for example on a mast or level as well as on a vertical wall. So the VISIC620 is favorable when not much space is available – with unaffected measuring results by other devices or even shiny metallic parts. And finally plug & play through sturdy plug-in connector and very simple parameter setting.

Economic Operation

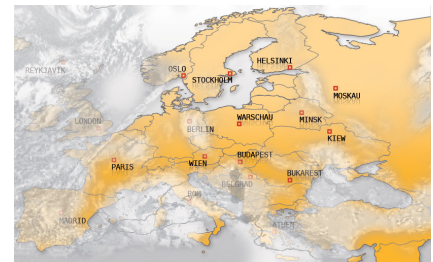
The VISIC620 requires very little maintenance – only every 5 years (apart from cleaning). Other inspections on site or conveniently via serial interface are useful. Effective mechanic screens protect the front windows from fast contamination. The need for cleaning is automatically signaled by the fog sensor.



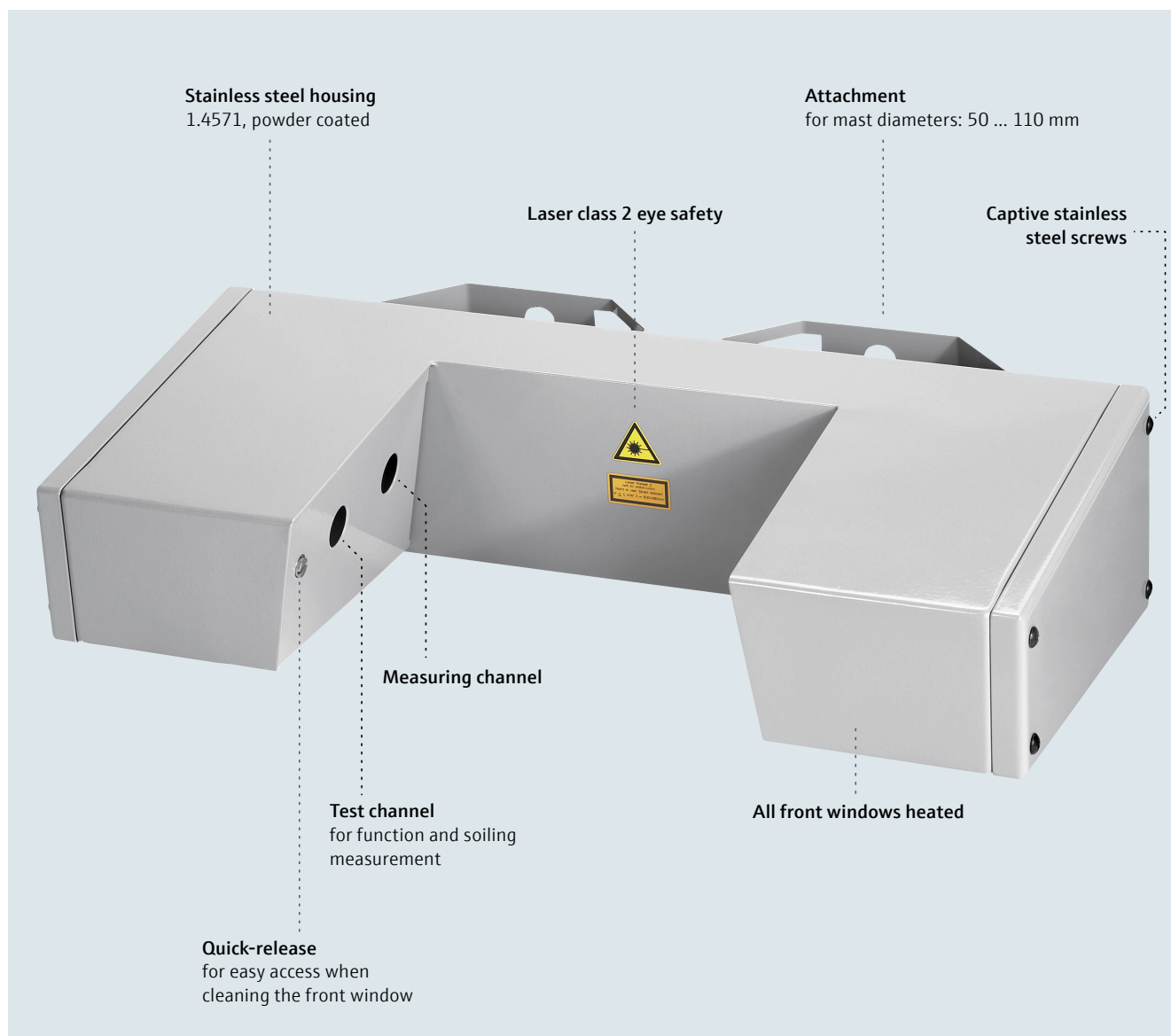
Traffic management systems



Light houses



Automatic weather stations (meteorology)



VISIC620:

Measurement of visual range for roads, tunnels and sea routes



Product description

The VISIC620 determines the visual range on roads, sea routes or in weather observation stations or measures the visibility (as k-value or in mg/m^3) in tunnels. An automatic self-test measures and compensates for possible front screen soiling. Furthermore, it reliably recognizes objects such as leaves

or plants in the optical path. Therefore, the VISIC620 can measure fog reliably. The long maintenance interval of five years (except cleaning), the robust enclosure made of stainless steel and the possibility of power supply via solar panel or battery make the VISIC620 a real outdoor product, also in salty air.

At a glance

- Large measuring range for visual range
- Precipitation detector as an option
- Contamination check
- Minimum space requirements and low weight
- Self-sufficient design possible with solar panel and battery
- Rugged housing, also for salty air

Your benefits

- Reliable measured values
- Low operational costs
- Low maintenance requirements due to long maintenance intervals

Fields of application

- Determination of the visual range on roads
- Measurement of visibility or dust concentration in tunnels
- Detection of smoke in tunnels
- Fog detection on coasts and sea routes
- Detection of fog and precipitation in weather stations



More Information online

For more information, enter the link or scan the QR code to get direct access to technical data, operating instructions, software, application examples, and much more.

www.endress.com/visic620



Detailed technical data

The exact device specifications and performance data of the product may deviate from the information provided here, and depend on the application in which the product is being used and the relevant customer specifications.

VISIC620

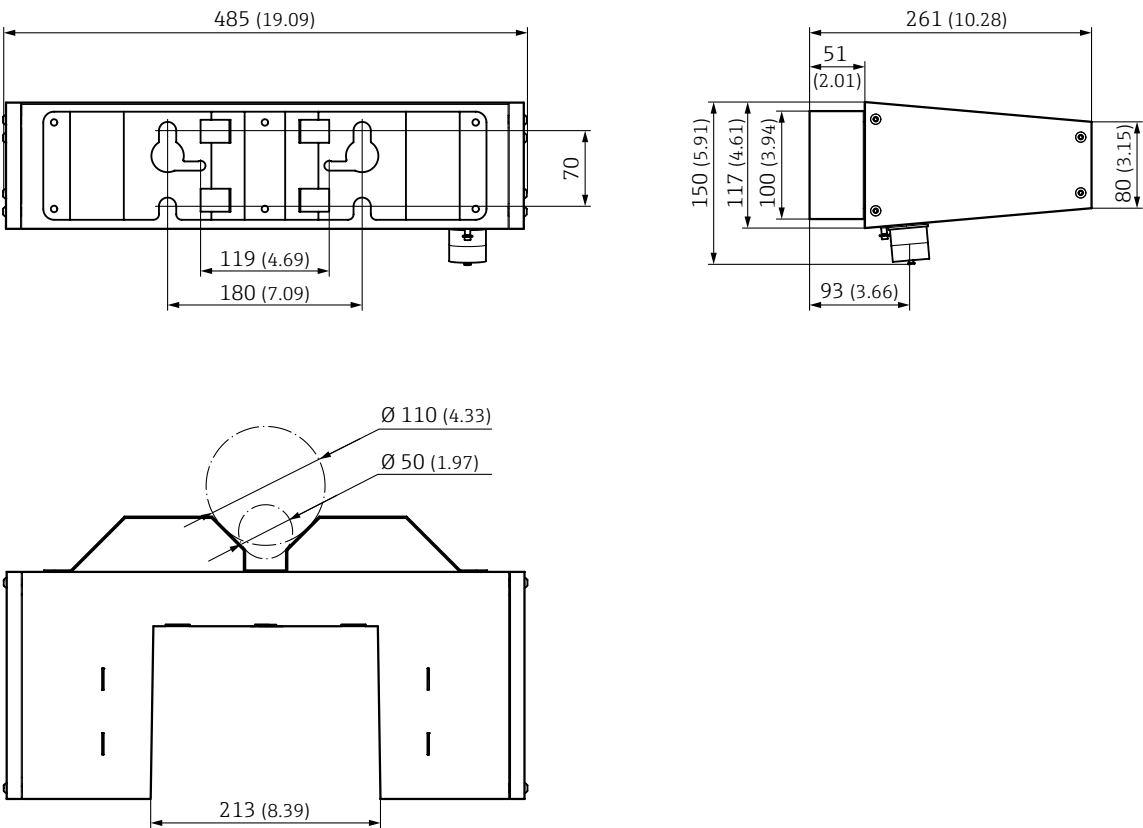
Measured values	Standard visual range, K-value
Measurement principles	Scattered light forward
Spectral range	640 mm ... 660 mm Laser, protection class 2, power < 1 mW
Measuring ranges	
Standard visual range	10 ... 500 m / 10 ... 16,000 m
	Output range freely adjustable
Response time (t ₉₀)	2 s ... 300 s
Accuracy	± 5 m, for visual range below 50 m ± 10 %, of measured value for visual range below 5,000 m ± 20 %, of measured value for visual range below 16,000 m
Repeatability	± 2 % for a visual range of 200 m
Ambient temperature	−30 °C ... +55 °C
Storage temperature	−40 °C ... +75 °C
Ambient humidity	0 % ... 100 %
Electrical safety	CE
Enclosure rating	IP 69K
Analog outputs	1 output: 0 ... 20 mA Only VISIC620-1xxxx
Digital outputs	2 relay contacts: 48 V AC, 35 W / 48 V DC, 24 W Only VISIC620-1xxxx
Digital inputs	1 floating contact: 4 V, 4.5 mA Not for VISIC620-1xxxx
Serial	✓
Remark	Only VISIC620-2xxxx
Type of field bus integration	RS-232 RS-485
Function	Proprietary service interface, connection to SOPAS ET software Proprietary service interface
Dimensions (W x H x D)	479 mm x 117 mm x 261 mm (for details see dimensional drawings)
Weight	5.6 kg
Material	Stainless steel 1.4571, powder-coated
Power supply	
Voltage	24 V DC, ± 10 %
Power consumption	≤ 10 W
Test functions	Automatic self-test (contamination, drift, LED, disturbing objects)

Ordering information

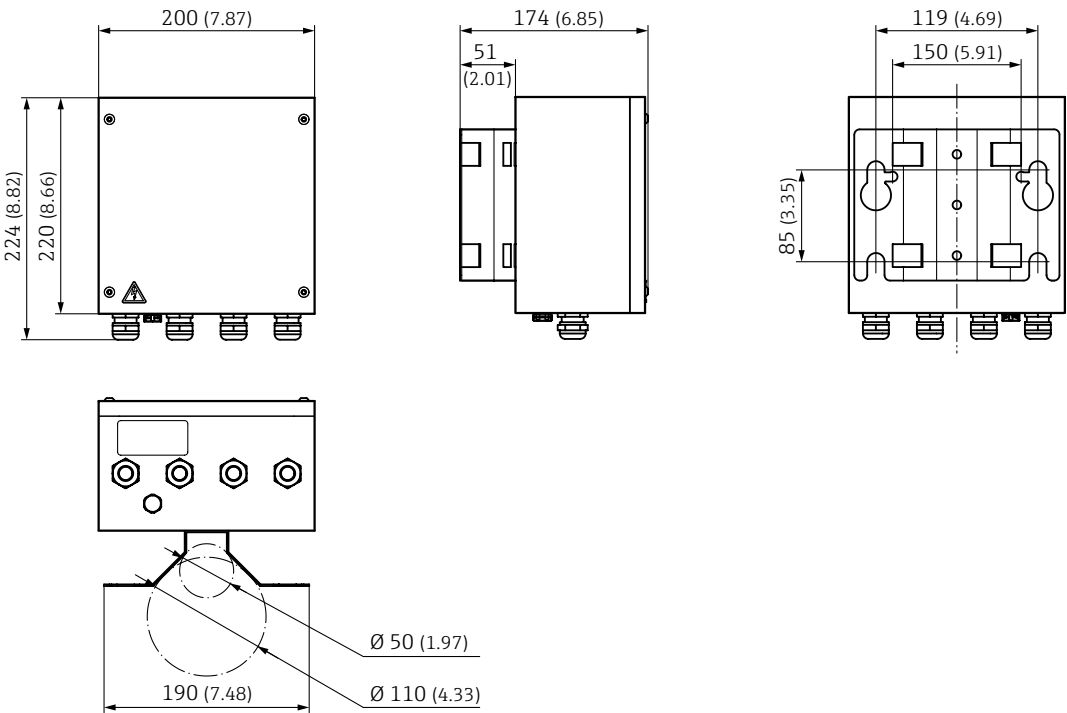
Our regional sales organization will help you to select the optimum device configuration.

Dimensional drawings

VISIC620 measuring unit (dimensions in mm (inch))



VISIC620 connection unit (dimensions in mm (inch))



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IN 8030081 / EHS / EN / 03.00