



# Technical data

## Specifications

Process temperature:	Above dew point up to 700 °C
Process pressure:	0.1 – 1.5 BarA
Detection limit:	< 0.5 mg/Nm <sup>3</sup> (in scattered mode)
Measurement range:	min. 0 – 15 mg/Nm <sup>3</sup> (scattered mode), particle size >1micron max. 0 – 10.000 mg/ Nm <sup>3</sup> (transmission mode), particle size >1micron
Resolution:	0.05 mg/Nm <sup>3</sup>
Optical path length**:	MP: 0.5 – 3 m LP: 3 – 6 m XLP: 6 – 10 m
Response time:	1 – 2 sec Pulse mode: 50 ms
<b>Environmental conditions</b>	
Operating temperature:	-20 °C to +55 °C
Storage temperature:	-20 °C to +55 °C
Protection classification:	IP66
Inputs / Outputs	
Analog output:	4 – 20 mA current loop (concentration, transmission)
Digital output:	TCP/IP, MODBUS, Optional fibre optic
Relay output:	High dust-, Warning - and Fault relays (normally closed- circuit relays)
Analog input:	4 – 20 mA process temperature and pressure reading

## Ratings

Input power supply unit:	100 – 240 VAC, 50/60 Hz, 0.36 – 0.26 A
Output power supply unit:	24 VDC, 900 – 1000 mA
Input transmitter unit:	18 – 36 VDC, max. 20 W
4 – 20 mA output:	500 Ohm max. isolated
Relay output:	1 A at 30 V DC/AC

## Safety

Laser class:	Class IIIb according to IEC 60825-1
CE:	Certified
EMC:	Conformant with directive 2014/30/EU

## Installation and Operation

Flange dimension:	MP: DN50/PN10 LP: DN80/PN10 XLP: DN150/PN10 Optional ANSI or other sizes on request
Alignment tolerances:	Flanges parallel within 1.5°
Purging of windows:	Dry and oil-free pressurised air or gas, or by fan
Purge flow:	50 – 100 l/min (application dependent)

## Maintenance

Visual inspection:	Recommended every 6 – 12 months (no consumables needed) Remote instrument check by Ethernet connection or external modem possible
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Calibration:	Recommended every 12 months (against gravimetric analysis)
Validation:	Integrated zero and span check

## Approvals

IECEX/ATEX zone 2:	II 3 GD T100 °C Ex nA nC II T5
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## Dimension and weight

Transmitter unit:	(MP, LP, XLP) 200 mm (plus 100 mm for purge unit) x 270 mm x 170 mm, 6.2 kg
Transmitter unit:	(Ex version) 200 mm (plus 100 mm for purge unit) x 270 mm x 310 mm, 7.9 kg
Receiver unit (MP):	300 mm (plus 100 mm for purge unit) x 120 mm x 120 mm, 3.9 kg
Receiver unit (LP):	380 mm (plus 100 mm for purge unit) x 120 mm x 120 mm, 5 kg
Receiver unit (XLP):	410mm (plus 100 mm for purge unit) x 270 mm x 170 mm, 8 kg
Power supply unit:	180 mm x 85mm x 70 mm 1.6 kg

\*\* Other OPLs on request

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