

Model GasOPAC-4000

Opacity measurement and gas detection
for road & railway tunnels



Detection for your safety

- Combined measurement of opacity & 2 gases simultaneously (CO, NO₂ or NO)
- Reduced installation and maintenance costs
- Easy calibration without dismantling
- Compact housing

It is essential to provide tunnel or car park users satisfactory air quality. Using a single device, GasOPAC-4000 permanently checks the different toxic gas levels (CO + NO₂ or NO) and the opacity, its all-in-one design allows for quick installation and easy maintenance.

GasOPAC-4000: optimizing air quality in tunnels

TECHNICAL SPECIFICATIONS

Mechanical specifications

Material	316L (1,4404 EN188) grade stainless steel + ABS
Protection	IP66
Dimensions / Weight	230 x 170 x 140 mm / 4 g
Cable input	PG13.5 cable gland for 6 to 12mm diameter cables
Water spray protection system	Built in
Particle filter	Built in

Metrological specifications

Opacity	
Measurement range	0 to 100% or 0 to 15 E/m
Display resolution	0.1% or 0.01 E/m
Measurement resolution	2048 points
Gas	
Measurement range	CO: 0-100 to 0-300 ppm; NO: 0-10 to 0-100 ppm; NO ₂ : 0-1 to 10 ppm
Resolution	CO and NO: 0.1 ppm; NO ₂ : 0.05 ppm
Accuracy	CO: 2 ppm; NO: 0.2 ppm; NO ₂ : 0.1 ppm
Lower detection limit	CO: 1 ppm; NO: 0.5 ppm; NO ₂ : 0.2 ppm
Response time	< 30s
Intended service life	> 3 years
Measurement drift	< 5% per year
Temperature range	-40 °C to +65 °C
Surrounding conditions	0 to 100% relative humidity; 700 to 1300 hPa

Electric specifications

Power supply	24 VDC +10/-15%
Consumption	27 W
Interfacing	RS485 (Modbus) Three 4-20mA insulated outputs Two on-off outputs
Fault / Maintenance alarms	One on-off output

Options

Interfacing	Ethernet (Modbus) Profibus
110-250VAC / 24VDC Power supply	In a junction box

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