

OPAGAZ



Visibility measurement and gas detection for road tunnels

- Detection equipment 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

Opagaz: optimizing air quality in your tunnel

It is essential to provide tunnel or car park users satisfactory air quality. The role of the Opagaz equipment is, using a single device, to permanently check the different toxic gas levels (CO + NO₂ or NO) and the opacity. Its all-in-one design enables a quick installation and an easier maintenance.

MECHANICAL SPECIFICATIONS

Material	Stainless steel 1.4404/AISI 316L/Z3CND18-12-02
Protection	IP66
Dimensions/Weight	230x170x140mm/4kg
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 15.10 ⁻³ E/m
Display resolution	0.1% or 0.01x10 ⁻³ E/m or E.m ⁻¹
Measurement resolution	2,048 points
Gas	
Measurement range	CO: 0-100 to 0-300ppm; NO: 0-10 to 0-100ppm; NO ₂ : 0-1 to 0-20ppm
Resolution	CO and NO: 0.1ppm; NO ₂ : 0.05ppm
Accuracy	CO: 2ppm; NO: 0.2ppm; NO ₂ : 0.1ppm
Lower detection limit	CO: 1ppm; NO: 0.5ppm; NO ₂ : 0.2ppm
Response time	< 30s
Intended service life	> 3 years
Measurement drift	< 5% per year
Temperature range	-40°C to +65°C without GAS, -20°C to +50°C with GAS
Surrounding conditions	0 to 100% relative humidity; 700 to 1,300hPa

ELECTRIC SPECIFICATIONS

Power supply	24VDC +10 / -15%
Consumption	25W
Interfacing	RS485 (Modbus) / 3x4/20mA insulated outputs / 2 on-off outputs
Fault / Maintenance alarms	1 on-off output

OPTIONS

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

CERTIFICATIONS AND STANDARDS

Compliance	ECM directive 2014/30/UE, NF EN 61000-6-2, NF EN 61000-6-4 NF EN ISO 9001(2015), ISO 14001 (2015)
------------	--

The information provided on this document is for information purposes only and does not constitute a legal obligation or a warranty, expressed or implied, of any kind.

CONTACT

pillard-sales@fivesgroup.com
T +33 (0)4 91 80 90 21

Fives Pillard
Les Baronnie – Bâtiment A – ZAC du Château Gombert
3, rue Marc Donadille – Marseille, 13013 – France
www.fivesgroup.com



fives
Industry can do it