

Open Path Gas Leak Laser Detector

This open path laser detector is designed for continuous monitoring of gas concentrations over long distances. It is suitable for use in environmental temperatures ranging from -10°C to 50°C and provides continuous monitoring with high sensitivity and selectivity.



ADDITIONAL IMAGES



Overview

Advanced TDLAS Gas Detection

The OPGD1000 utilizes advanced TDLAS (Tunable Diode Laser Absorption Spectroscopy) technology to provide high-precision gas concentration monitoring across open spaces. With an impressive detection distance of up to 120 meters, it is engineered for critical industrial safety in environments such as refineries, offshore platforms, and gas pipelines. The robust 316L stainless steel housing ensures durability and reliable performance in hazardous, demanding conditions.

Performance Metrics

Detection Capabilities

120 m

Max Detection Distance

3 s

Response Time (T90)

10 years

Sensor Life

Gas Detection Specs

Gas Type	Range
Methane (CH ₄)	0-100%LEL*m
Hydrogen Sulfide (H ₂ S)	0-4000ppm*m

Technical Specifications

Electrical Requirements	DC14~32V
Signal Output	4~20mA
Thread Type	NPT 3/4"

Environmental & Housing

Operating Conditions

- Temperature: -40 to +65
- Humidity: d95%RH (non-condensing)

Housing Material

316L Stainless Steel

Dimensions & Weight

350 x 250 x 205 mm, approx. 15 kg

Compliance & Safety

Certifications & Ratings

Ex d IIC T6 • IP66 • SIL2

Accessories

Included Accessories

Bracket, Canopy, Gland

Optional Add-ons

Gas Cell, Telescope sight, Surge protector, Junction box