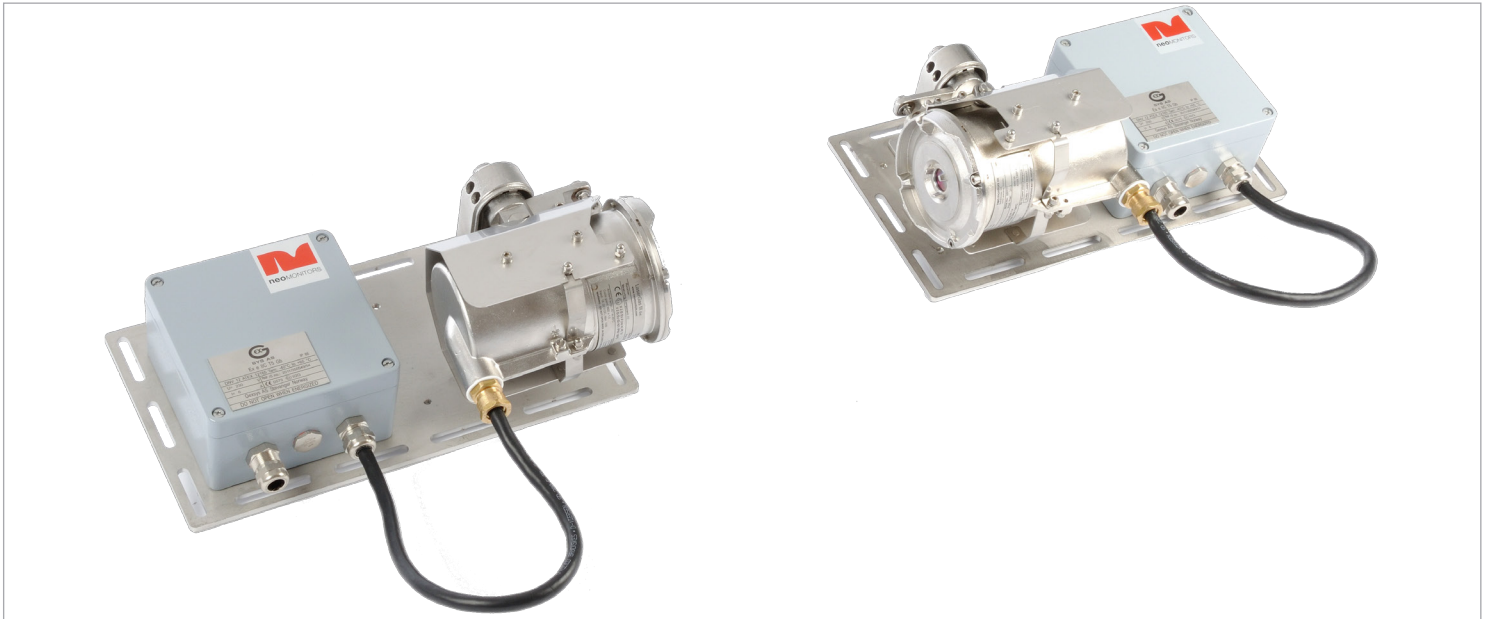


# LaserGas™ III OP HF Gas Detector



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**NEO Monitors LaserGas™ III** new HF Open Path Gas Detector is specifically designed for service in hazardous areas. Based on our third generation LaserGas™ Technology, the entire instrument is built into compact flameproof enclosures making it fit for zone 1 applications. The LaserGas™ III OP HF consists of a transmitter and receiver unit that is mounted diametrically opposite each other at distances up to 100 meters. The laser light is sent from the transmitter to the receiver and any HF concentration changes along the optical path from the transmitter to the receiver are detected in real-time.

## Features

- Gen. 3 compact LaserGas™ Technology
- For operation in zone 1 (Explosion proof, Ex-d)
- Automatic health check
- Low power < 15 Watt
- No need for regular replacement of parts
- No interference from other gases
- Factory calibrated, no zero drift
- Suitable for SIL2

## Applications

Open Path monitors are critical in emission monitoring across a wide range of industrial applications:

- Oil and gas industry
- Petrochemical refineries
- Chemical plants
- Metal industry
- Fenceline monitoring

## Customer benefits

- Compact high performance gas monitor for ambient long distance monitoring
- No cross interference from other gases
- Easy to install
- Limited need for maintenance
- Low cost of ownership
- Proven and reliable

# LaserGas™ III OP HF Gas Detector

## Technical Data

<p><b>General</b></p> <p>Type: Near IR Diode Laser Spectroscopy</p> <p>IR-source: Diode laser Class1 M, eye safe</p> <p>Detected gas: HF</p> <p>Range: Minimum 0-5 ppm*m</p> <p>Path length: 5-100 m</p> <p>Self-test: Continuous</p> <p>Calibration: Factory set, no field calibration necessary</p> <p><b>Performance</b></p> <p>Zero: <math>\pm</math> 1% of full scale</p> <p>Repeatability: <math>\pm</math> 1% of full scale</p> <p>Response time: 5 sec (adjustable)</p> <p><b>Optics</b></p> <p>Alignment: <math>\pm</math> 0.15 deg</p> <p>Obscuration: &gt; 90%</p>	<p><b>Output signals</b></p> <p>Standard: 4-20 mA source or sink, max load impedance 500 Ohm</p> <p>Options: Ethernet</p> <p>Fault signals: Fault 1mA Beam Block 2 mA Warning 3 mA</p> <p><b>Electrical</b></p> <p>Power Supply: 24V DC range 18-32V DC</p> <p>Power consumption: &lt; 15W</p> <p><b>Temperature range</b></p> <p>Storage temperature: -55 °C to 75 °C</p> <p>Operating: -40 °C to 65 °C</p> <p>Humidity (operational): 100% RH</p> <p><b>Material</b></p> <p>TU and RU: Stainless steel (ASTM 316)</p>	<p><b>Dimensions / weight</b></p> <p>Footprint/weight: Ø 125mm x 250 mm / 5.5 Kg (12 lbs.) per TU or RU</p> <p><b>Maintenance</b></p> <p>Visual inspection: Recommended every 6 – 12 months (no consumables needed) Check recommended every 12 months</p> <p>Calibration: Check recommended every 12 months</p> <p><b>Safety</b></p> <p>Laser class: Class 1 according to IEC 60825-1, eye safe</p> <p>CE: Certified</p> <p>EMC: Conformant with directive 2014/30/EU</p> <p><b>Approvals</b></p> <p>IECEX/ATEX zone 1: II 2 G Ex d [op is] IIC T6 (TU/RU) II 2 D Ex tb IIIC T88 °C</p> <p>Ingress: IP66/IP67 IEC 60529</p> <p>SIL: Suitable for use in SIL2 systems</p> <p><b>Optional junction box (technical data)</b></p> <p>Junction box: GRP / aluminum</p> <p>Footprint Junction box: 250 mm x 250 mm / 2.0 Kg (4.4 lbs. per Junction Box)</p> <p>ATEX rating: II 2 G Ex e IIC T4/T5/T6</p>
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\*NEO Monitors reserve the right to change specifications without prior notice

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