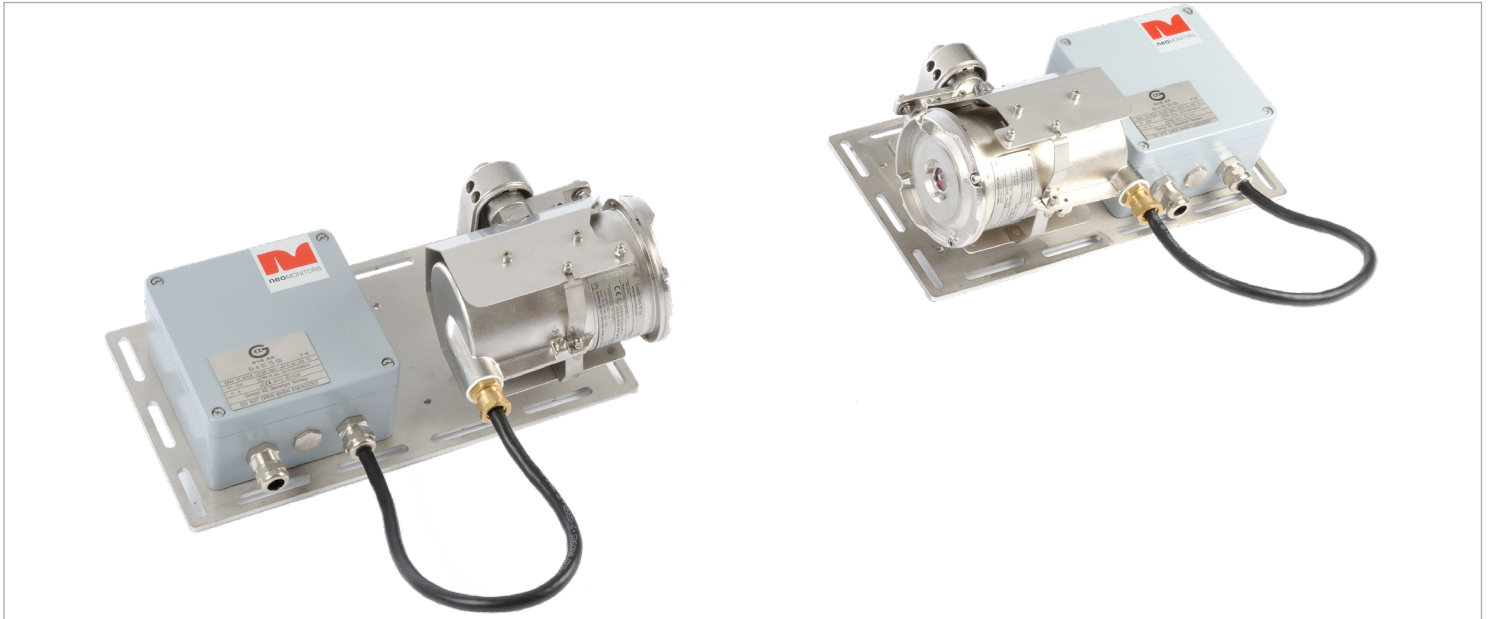


LaserGas™ III OP HF Gas Detector



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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

Specification		Rating		Optics	
Type:	Near IR Diode Laser Spectroscopy	Power Supply:	24V DC range 18-32V DC	Alignment:	+/- 0.15 deg
IR-source:	Diode laser Class1 M, eye safe	Power consumption:	< 15W	Obscuration:	> 90%
Detected gas:	HF	Safety		Dimensions / weight	
Range:	Minimum 0-5 ppm*m	Laser class:	Class 1 according to IEC 60825-1, eye safe	Footprint/weight:	Ø 125mm x 250 mm/ 5.5 Kg (12 lbs.) per TU or RU
Path length:	5-100 m	CE:	Certified	Optional junction box (technical data)	
Self-test:	Continuous	EMC:	Conformant with directive 2014/30/EU	Junction box:	GRP / aluminum
Calibration:	Factory set, no field calibration necessary	Approvals		Footprint Junction box:	250 mm x 250 mm/ 2.0 Kg (4.4 lbs. per Junction Box)
Zero:	<+/- 1% of full scale	IECEX/ATEX zone 1: (TU/RU)	II 2 G Ex d [op is] IIC T6 II 2 D Ex tb IIIC T88 °C	ATEX rating:	II 2 G Ex e IIC T4/T5/T6
Repeatability:	<+/- 1% of full scale	Ingress:	IP66/IP67 IEC 60529		
Response time:	5 sec (adjustable)	SIL:	Suitable for use in SIL2 systems		
Environmental conditions		Materials			
Storage temperature:	-55 °C to 75 °C	TU and RU:	Stainless steel (ASTM 316)		
Operating:	-40 °C to 65 °C				
Humidity (operational):	100% RH				
Input/output					
Standard:	4-20 mA source or sink, max load impedance 500 Ohm				
Options:	Ethernet				
Fault signals:	Fault 1mA Beam Block 2 mA Warning 3 mA				

*NEO Monitors reserve the right to change specifications without prior notice

Your local distributor:



neomonitors

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