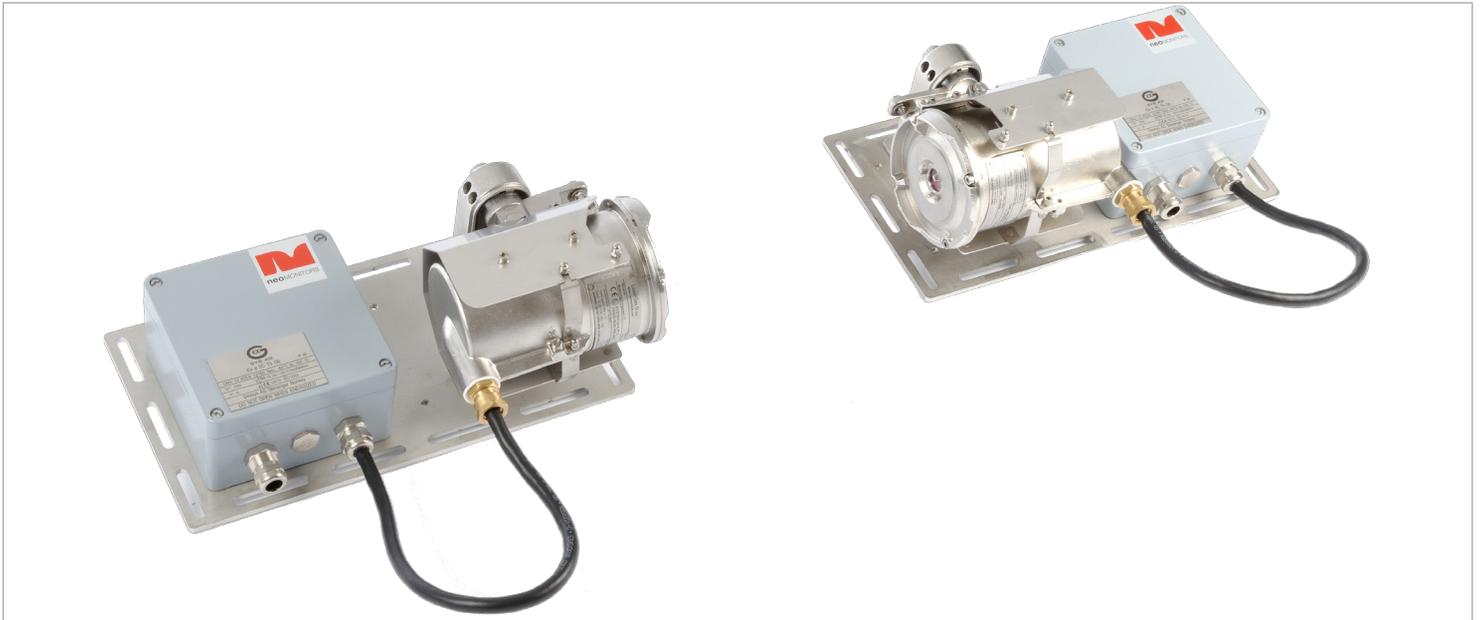


LaserGas™ III OP NH₃ Gas Detector



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NEO Monitors new LaserGas™ III NH₃ 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 NH₃ 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 NH₃ 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

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 NH₃ Gas Detector

Technical Data

General		Output signals		Dimensions / weight	
Type:	Near IR Diode Laser Spectroscopy	Standard:	4-20 mA source or sink, max load impedance 500 Ohm	Footprint/weight:	Ø 125mm x 250 mm/ 5.5 Kg (12 lbs.) per TU or RU
IR-source:	Diode laser Class1 M, eye safe	Options:	Ethernet	Maintenance	
Detected gas:	NH ₃	Fault signals:	Fault 1mA Beam Block 2 mA Warning 3 mA	Visual inspection:	Recommended every 6 – 12 months (no consumables needed)
Range:	0-5000 ppm*m	Electrical		Calibration:	Check recommended every 12 months
Path length:	5-100 m	Power Supply:	24V DC range 18-32V DC	Safety	
Self-test:	Continuous	Power consumption:	< 15W	Laser class:	Class 1 according to IEC 60825-1, eye safe
Calibration:	Factory set, no field calibration necessary	Temperature range		CE:	Certified
LDL:	5ppm*m	Storage temperature:	-55 °C to 75 °C	EMC:	Conformant with directive 2014/30/EU
Performance		Operating:	-40 °C to 65 °C	Approvals	
Zero:	<+/- 1% of full scale	Humidity (operational):	100% RH	IECEX/ATEX zone 1: (TU/RU)	II 2 G Ex d [op is] IIC T6 II 2 D Ex tb IIC T88 °C
Repeatability:	<+/- 1% of full scale	Material		Ingress:	IP66/IP67 IEC 60529
Response time:	5 sec (adjustable)	TU and RU:	Stainless steel (ASTM 316)	Optional junction box (technical data)	
Optics				Junction box:	GRP / aluminum
Alignment:	+/- 0.15 deg			Footprint Junction box:	250 mm x 250 mm/ 2.0 Kg (4.4 lbs. per Junction Box)
Obscuration:	> 90%			ATEX rating:	II 2 G Ex e IIC T4/T5/T6

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

Your local distributor:



neomonitors

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