

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

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Technical Data

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

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

Your local distributor:



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