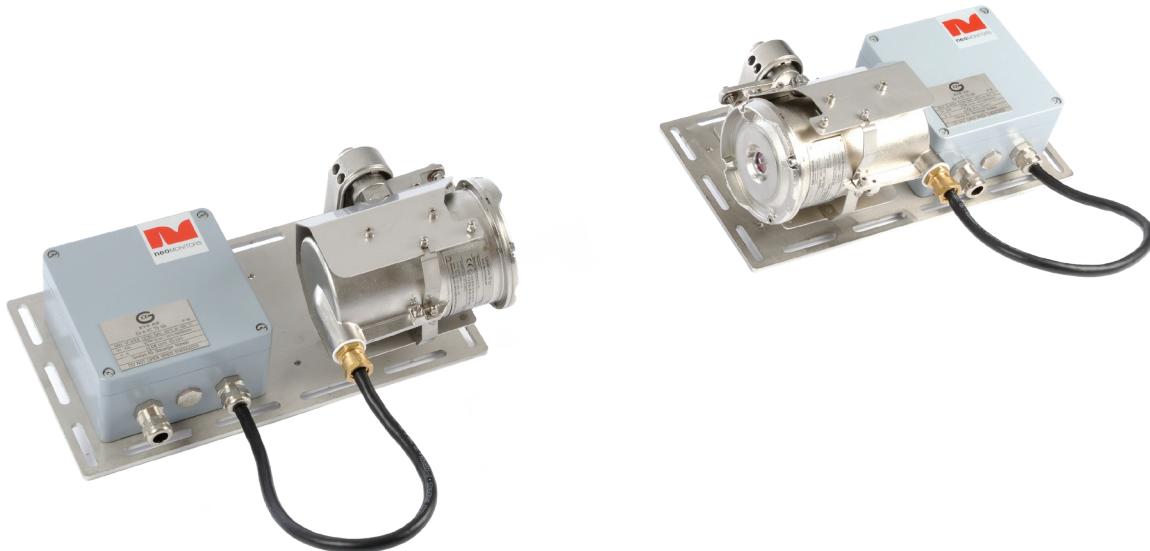


# LaserGas™ III OP HF Gas Detector



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.

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Features	Applications	Customer benefits
<ul style="list-style-type: none"><li>• Gen. 3 compact LaserGas™ Technology</li><li>• For operation in zone 1 (Explosion proof, Ex-d)</li><li>• Automatic health check</li><li>• Low power &lt; 15 Watt</li><li>• No need for regular replacement of parts</li><li>• No interference from other gases</li><li>• Factory calibrated, no zero drift</li><li>• Suitable for SIL2</li></ul>	<p>Open Path monitors are critical in emission monitoring across a wide range of industrial applications:</p> <ul style="list-style-type: none"><li>• Oil and gas industry</li><li>• Petrochemical refineries</li><li>• Chemical plants</li><li>• Metal industry</li><li>• Fenceline monitoring</li></ul>	<ul style="list-style-type: none"><li>• Compact high performance gas monitor for ambient long distance monitoring</li><li>• No cross interference from other gases</li><li>• Easy to install</li><li>• Limited need for maintenance</li><li>• Low cost of ownership</li><li>• Proven and reliable</li></ul>

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## Technical Data

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

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

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