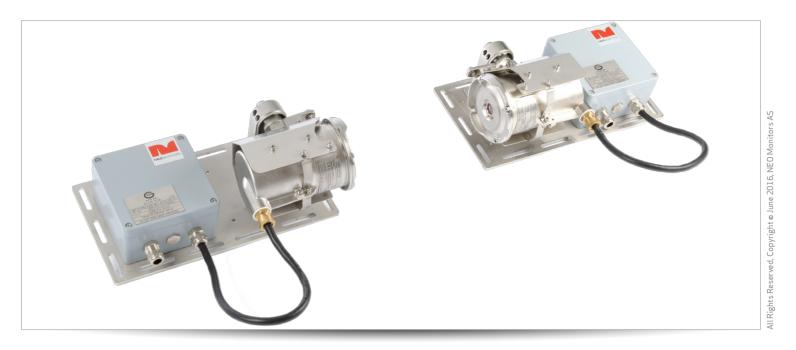
## LaserGas™ III OP NH<sub>3</sub> Gas Detector





**NEO Monitors new LaserGas<sup>TM</sup> III NH**<sub>3</sub> Open Path Gas Detector is specifically designed for service in hazardous areas. Based on our third generation LaserGas<sup>TM</sup> Technology, the entire instrument is built into compact flameproof enclosures making it fit for zone 1 applications. The LaserGas<sup>TM</sup> III OP NH<sub>3</sub> 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 NH<sub>3</sub> concentration changes along the optical path from the transmitter to the receiver are detected in real-time.

## Features **Applications Customer benefits** Gen. 3 compact LaserGas<sup>TM</sup> Technology Open Path monitors are critical in emission Compact high performance gas monitor for ambient long distance monitoring monitoring across a wide range of industrial • For operation in zone 1 (Explosion proof, applications: • No cross interference from other gases Ex-d) • Automatic health check Easy to install • Oil and gas industry • Low power < 15 Watt • Limited need for maintenance • Petrochemical refineries • No need for regular replacement of parts Low cost of ownership Chemical plants • No interference from other gases • Proven and reliable Metal industry • Factory calibrated, no zero drift • Fenceline monitoring

## LaserGas™ III OP NH<sub>3</sub> Gas Detector

## Technical Data

General

Near IR Diode Laser Type:

Spectroscopy

IR-source:

Diode laser Class 1 M.

eye safe

Detected gas:

NH<sub>2</sub>

Range:

0-5000 ppm\*m

Path lenght:

5-100 m

Self-test:

Continuous

Calibration:

Factory set, no field

calibration necessary

LDL:

5ppm\*m

Performance

Zero:

<+/- 1% of full scale

Repeatability: Response time: <+/- 1% of full scale 5 sec (adjustable)

**Optics** 

Alignment:

+/- 0.15 deg

Obscuration:

> 90%

Output signals

Standard:

4-20 mA source or sink. max load impedance

500 Ohm Ethernet

Options:

Fault signals: Fault 1mA

Beam Block 2 mA

Warning 3 mA

**Electrical** 

Power Supply:

24V DC range 18-32V

Power consumption: <15W

Temprature range

Storage temprature:

-55 °C to 75 °C -40 °C to 65 °C

Operating:

Humidity (operational): 100% RH

Material

TU and RU:

Stainless steel

(ASTM 316)

Dimensions / weight

Footprint/weight: Ø 125mm x 250 mm/

5.5 Kg (12 lbs.) per TU or RU

Maintenance

Visual inspection:

Recommended every 6 – 12 months (no

consumables needed)

Check recommended

every 12 months

Safety

Calibration:

Laser class:

Class 1 according to IEC 60825-1, eye safe

CE: Certified

EMC: Conformant with

directive 2014/30/EU

**Approvals** 

IECEx/ATEX zone 1:

Footprint Junction box:

II 2 G Ex d [op is] IIC T6 II 2 D Ex tb IIIC T88 °C

(TU/RU)

IP66/IP67 IEC 60529 Ingress:

Optional junction box (technical data)

Junction box:

GRP / aluminum

250 mm x 250 mm/ 2.0 Kg (4.4 lbs. per Junction

Box)

ATEX rating: 112 G Ex e I I C T 4/T 5/

T6

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

Your local distributor:





