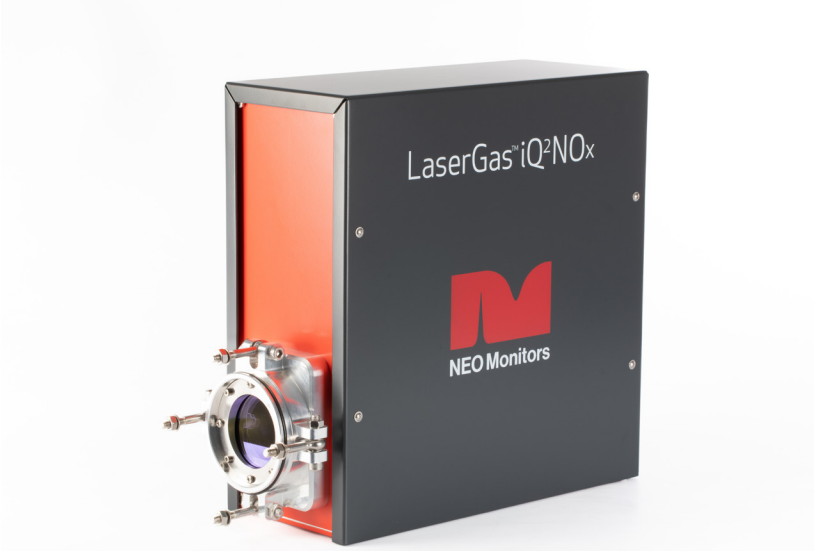
ETA Process Instrumentation
etapii.com
sales@etapii.com
tel: 978.532.1330
New England

Martech Controls
etapii.com
sales@martechcontrols.com
tel: 315.876.9120
Upstate New York

/ LaserGas™ iQ² NOx



NEO Monitors' LaserGas™ iQ2 NOx analyzer delivers a combined NO/NO2 total NOx measurement solution, using state-of-the-art Interband Cascade Lasers (ICL). Our cutting-edge optical TDLAS technology and advanced design offers ground-breaking functionality, ensuring that the instrument delivers unmatched reliability and durability in the most challenging process environments, simplifying and reducing installation costs - offering a truly innovative NOx measurement solution.

Features

- In-situ measurement
- Contactless optical technique
- No interference from background gases
- Factory calibrated
- No zero drift
- Transceiver configuration
- Automatic gain control
- Integrated span check

Applications

- DeNOx (SCR and SNCR)
- Emissions
- Across multiple Industries, inc.
  - Petrochemical
  - Chemical
  - Energy
  - Enviromental monitoring

Customer benefits

- Direct in-situ measurement with no sample conditioning system requirements.
- Reduced installation cost with single flange transceiver, offering quick and easy optical alignment.
- Low maintenance cost with no regular consumables.
- Doubled optical path increases absorption signal for enhanced sensitivity.
- Field proven TDLAS technology provides measurement confidence
- No regular calibration requirements, reducing cost of operation

NEO Monitors
A Nederman Company

Technical data

Specifications

Process gas temprature:	Ambient to 500 °C
Process gas pressure:	0.7-1.5 barA
Optical path length:	max 20m
Response time:	≤ 5 seconds

Environmental conditions

Operating temperatures:	-40 °C - +55 °C
Storage temperature:	-40 °C - +70 °C
Protection classification:	IP66

Input/output

Analog output: loop	4 - 20 mA current
Digital output:	Ethernet (TCP/IP)
Relay output (4):	High gas, warning and fault (normally closed)
Analog input (2):	4 - 20 mA Process temperature and pressure reading

Ratings

Power supply:	24 VDC (18 - 30 VDC)
Power consumptions:	max 30W
4 - 20 mA:	500 Ohm max isolated
Relay output:	1 A at 30 V DC

Safety

Laser class:	Class 1M according to IEC 60825-1, eye safe
CE:	Certified
EMC:	Conformant with directive 2014/30/EU

Approvals

IECEx/ATEX zone 1:	II 2 G Ex pxb IIC T5 Gb II 2 D Ex pxb IIIC T100 °C Db
CSA:	Class I, Div. 2, Groups A, B, C and D; Temp. Code T5

Installation and operation

Flange dimension:	DN 80/PN 10-40 (Center Ø 3”) or ANSI 3” #150 (#300) (Center Ø 3”) ANSI 4” #300
Instrument purge:	Application dependent

Maintenance

Calibration:	Check recommended every 12 months
Validation:	In-situ span check with optional internal cell

Dimensions / weight

Transceiver:	
ATEX Version	458 mm (d) x 387 mm (h) x 166 mm (w) 16 kg
CSA version	518 mm (d) x 387 mm (h) x 166 mm (w) 16 kg

LaserGas™ iQ2 X-stack NO + NO2 ppm (below 500 °C)

	Min	Max	LDL/precision
NO Range	0-10 ppm	0-1000 ppm*m	0.1 ppm
NO2 Range	0-50 ppm	0-1000 ppm*m	1 ppm
Process path length	0.5 m	20 m	_
Process temperature	Ambient	500°C	_
Process pressure	0.7 BarA	1.5 BarA	_

PERFORMANCE YOU CAN TRUST

NEO Monitors
A Nederman Company