## LaserGas<sup>™</sup> Q NO₂





**NEO Monitors LaserGas™** Q NO<sub>2</sub> is using Tuneable Laser Absorption Spectroscopy (TLAS) i.e a non-contact optical measurement method employing solid-state laser sources. The sensor remains unaffected by contaminants corrosives and does not require regular maintenance. The absence of extractive conditioning systems further improves availability of the measurements and eliminates errors related to sample handling. The monitor is mounted directly onto flanges, which include purge gas connections and a tilting mechanism for easy alignment. Continuous purge flow prevents dust and other contamination from settling on the optical windows. Once power and data lines are connected, measurements are performed in real-time.

Features	Applications	Customer benefits
<ul> <li>Response time down to 1 second</li> <li>No gas sampling: In-situ measurement</li> <li>No interference from background gases</li> <li>Line measurement, integral concentration over the full stack diameter</li> <li>Integrated span check option available</li> <li>Suitable for harsh environment</li> <li>No zero drift</li> <li>Stable calibration</li> </ul>	LaserGas <sup>™</sup> Q NO <sub>2</sub> is designed for reliable and fast measurement of nitrogen dioxide, combustion process control, DeNO <sub>x</sub> and safety and emission monitoring applications.	<ul> <li>In-situ monitoring</li> <li>Highly reliable real time analyzer</li> <li>Low maintenance cost</li> <li>Reduce emission to the environment</li> <li>Easy to install and operate</li> <li>Reduce daily operation costs</li> <li>Optimize process</li> <li>Well proven measurement technique</li> </ul>

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## Technical Data

Specifications Optical path length: Response time: Accuracy: Repeatability: Min range NO <sub>2</sub> : Max range NO <sub>2</sub> : Detection limit: Temperature: Pressure: Windows material: Environmental condition Operating temperature: Storage temperature: Protection classification Inputs / Outputs Analog output (3): Digital output: Relay output (3): Analog input (2):	-20 °C to +55 °C -20 °C to +55 °C	Ratings Input power supply unit: Output power supply unit: Input transmitter unit: 4 – 20 mA output: Relay output: Installation and Operation Flange dimension alignm Alignment tolerances: Purge flow: Maintenance Visual inspection: Calibration: Validation:	50/60 Hz 24 VDC, 900 – 1000 mA 18 – 36 VDC, max. 20W 500 Ohm max. isolated 1 A at 30 V DC/AC	Safety Laser class: CE: EMC: ATEX: CSA: Dimension and weight Transmitter unit: Receiver unit: Power supply unit:	Class 1 according to IEC 60825-1 Certified Conformant with directive 2014/30/EU PENDING 420 x 270 x 170 mm, 6.6 kg 265 x 270 x 170 mm, 5.7 kg 180 x 85 x 70 mm, 1.6 kg

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

Your local distributor:



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