



Electro Optical Components, Inc.

5464 Skylane Boulevard, Suite D, Santa Rosa, CA 95403

Toll Free: 855-EOC-6300

www.eoc-inc.com | info@eoc-inc.com



Nitrous oxide (N₂O) measurement with FLOW^{EVO} up to 500 ppm



Nitrous oxide (N₂O), also known as “laughing gas”, is not just used in medicine. It is also used in the food industry as a propellant for spray whipped cream (E 942), in aerospace technology to oxidize unwanted exhaust gases in rocket engines and agriculture fertilizers. It is 300 times worse than CO₂ as a greenhouse gas. Now more than ever it is important to monitor and control its output.

Nitrous oxide (N₂O) is a potent greenhouse gas. N₂O's reliable monitoring (anthropogenic N₂O emission sources) is very important.

smartGAS offers a tailor-made technology for N₂O measurement using its reliable non-dispersive infrared absorption (NDIR) sensors for gas analyzing. The sensors are not only very stable over the long term, but also require little maintenance and have a long service life, so that they guarantee reliable measurement even in remote locations.

The FLOW^{EVO} sensor for nitrous oxide covers the complete measuring range from 0 to 500 ppm with a digital resolution of 1 ppm (parts per million) and, like all smartGAS gas sensors, is matched to the individual application, pre-calibrated and delivered ready for operation. The detection limit is ≤ 0.6 ppm with a repeatability of ≤ ±2.5 ppm.