TECSENSE
unique solutions in sensor technology

100% Inline control of O2 in Gas Generators directly in the tubbing

We have achieved a unique solution to control continuously the O2 content in nitrogen gas with no maintenance and approximately a third of the price of similar, much bigger sensors on the market.
Due to its small size it is the only sensor with a very simple integration, that can directly be plugged into the tubings of Nitrogen Gas generators. *Tec Micro is the smallest, fastest and most accurate O2 sensor of this kind on the market.*

Advantages:

- Applicable in gases and liquids
- No cross-sensitivity to moisture
- No problem with smaller particles
- Extremely accurate measurement results in the trace areas
- No sensitivity to magnetic and electric fields
- **Applicable in explosive environments**
- No maintenance - Self-diagnosis system - (sensor reports when 80% of its life has been reached)
- Minimum life of 1 year for gases in a neutral atmosphere
- New sensor is then replaced and supplied by the manufacturer for the price of the sensor cap
- Measuring speed from 2ms
- Plug & Play System - easy to screw in T piece - smallest size in any system
- Stable against CIP and SIP cleaning processes
- Best performance at a competitive price
- No problem with Stop and Go

All sensors work according to the principle of phase fluorometry or the measurement of the fluorescence lifetime, for which TecSense has several patents for the exclusive right to use.
An internal quality control system is established to guarantee the constant high quality and is since 2013 ISO 9001 certified.
We have managed to position our sensors worldwide and have had remarkable success especially providing OEM solutions to several renown companies.

1. High-Precision - Long-term stable measurement O2
2. Can be installed directly on the bag seal
3. Small size - 12mm diameter 60 mm length
4. Pressure: 100 mbar – 2 Bar absolute (up to 10 bar on request)
5. Digital and optional analogue data output

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Performance Data- Gas / Fluids

Gas:

Range trace: **Accuracy**

Total range: 0–2000ppm (0– 0,2%)

- 0 – 500 ppm ± 5 ppm
- 500 – 1000 ppm ± 10 ppm
- 1000 – 2000 ppm ± 50 ppm

Range medium:

Total range: 0 –20.000ppm (0 –2%)

- 0 – 1000 ppm ± 20 ppm
- 1000 – 5000 ppm ± 50 ppm
- 5000 – 20.000 ppm ± 200 ppm

Range standard:

Total range: 0 –220.000ppm (0 –22%)

- 0 – 50.000 ppm ± 500 ppm
- 50.000 –220.000 ppm ± 1000 ppm

Range high:

Total range: 0- 100 %

- 0 – 10 % ± 0,3 %
- 10 – 50 % ± 2 %
- 50 – 100 % ± 5 %

Fluids:

Range trace: **Accuracy**

Total range: 0–2000ppb

0 – 2000 ppb ± 3 % FSc

Range medium: **Accuracy**

Total range: 0 – 2mg/L

0 – 2mg/L ± 2 % FSc

Range standard:

Total range: 0 – 10 mg/L

0 – 10 mg/L ± 2 % FSc

Range high:

Total range: 0 – 40 mg/L

0 – 20 mg/L ± 3 % FSc

20 – 40mg/L ± 5 % FSc

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