

Product data sheet

## GasSpect O<sub>2</sub>

Headspace gas sensor for non-destructive measurements in pharmaceutical, food and beverage packages.

The GasSpect O<sub>2</sub> sensor is a completely non-destructive and non-intrusive inspection sensor for headspace analysis of packages like trays, bags, pouches, bottles, whether transparent or non-transparent.

The GasSpect O<sub>2</sub> sensor can measure:

- Residual oxygen < 1%
- Low oxygen concentrations 1-2%
- High oxygen concentrations > 60%

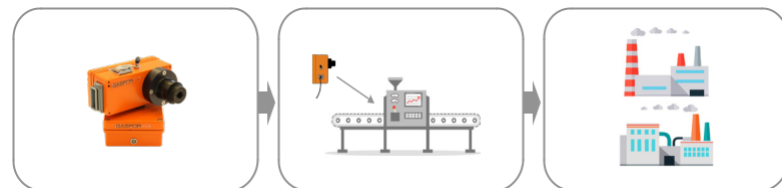
Gasporox sensors are based on Tunable Diode Laser Absorption Spectroscopy (TDLAS). Gasporox sensors are available for both HeadSpace Analysis (HSA) and Leak Detection (LD) and intended for integration into in-line inspection- or production lines for 100 % testing and quality control.



### Benefits

- Both low and high oxygen
- Non-intrusive and non-destructive
- Accurate
- Robust
- Easy to integrate
- Self-calibrating
- 3 models available

### Gasporox concept



Gasporox sensors are delivered with Gasporox measurement concept meaning we work with you to ensure best performance, so the below specification is made general as the GasSpect O<sub>2</sub> sensor will be custom modified to perfectly fit your inspection- and production line.



|                          |                                  |
|--------------------------|----------------------------------|
| Gas:                     | O <sub>2</sub>                   |
| Measurement range:       | 0.1 - 100 % O <sub>2</sub>       |
| Startup time:            | < 1 min                          |
| IP Classification:       | IP 65                            |
| <b>Dimensions</b>        |                                  |
| Transmitter box (HxWxD): | 180 mm x 85 mm x 68 mm, 1.3 kg   |
| Receiver box (HxWxD):    | 127 mm x 125 mm x 90 mm, 1.0 kg  |
| <b>Electrical</b>        |                                  |
| Primary:                 | 100 - 240 V, 50 W AC, 50 - 60 Hz |
| Secondary:               | 18-30VDC                         |

**Communication interface**  
Modbus TCP/IP, RS485, Ethernet, Trigger input

#### Performance (depending on package line and sensor model)

|                          |                     |                     |                     |
|--------------------------|---------------------|---------------------|---------------------|
| Measurement time:        | Down to 0.1 s       |                     |                     |
| Accuracy:                | ±0.1%               |                     |                     |
| <b>Laser</b>             |                     |                     |                     |
| Different output models: | O <sub>2</sub> Mini | O <sub>2</sub> Medi | O <sub>2</sub> Maxi |
| Wavelength:              | 760 nm              | 760 nm              | 760 nm              |
| Transmission:            | > 5 %               | 0.5-5%              | <0.5%               |
| Output power:            | < 0.5 mW            | 5 mW                | 15 mW               |
| Laser class:             | Class 1             | Class 3B            | Class 3B            |