

## GasSpect™ O<sub>2</sub>

### Sensor for integration

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 1 - 2 %

High oxygen > 60 %

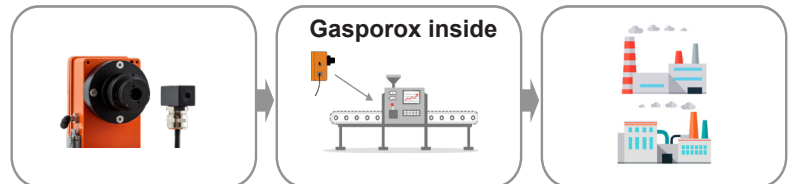
### Technology

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.

### General Sensor Specification

|                    |                            |
|--------------------|----------------------------|
| Gas:               | O <sub>2</sub>             |
| Measurement range: | 0.1 - 100 % O <sub>2</sub> |
| Startup time:      | < 1 min                    |
| IP Classification: | IP 65                      |

### Dimensions

|                          |                                 |
|--------------------------|---------------------------------|
| 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 |

### Electrical

|            |                                  |
|------------|----------------------------------|
| Primary:   | 100 - 240 V, 50 W AC, 50 - 60 Hz |
| Secondary: | 18 - 30 V DC                     |

### 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 %       |

### Laser

| 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            |