

LeakSpect™ CO₂

Sensor for integration

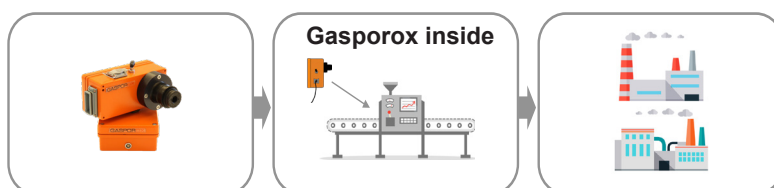
The LeakSpect CO₂ sensor is a completely non-destructive and non-intrusive inspection sensor for detecting leaks of carbon dioxide from packages.

The sensor detects extremely small holes in packages like trays, bags, canisters, and cans made by various types of material.

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.

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 LeakSpect CO₂ sensor will be custom modified to perfectly fit your inspection- and production line.

Benefits

- Finds extremely small leaks
- Non-intrusive and non-destructive
- Accurate
- Robust
- Easy to integrate

General Sensor Specification

Gas:	CO ₂
Measurement range:	0 - 100 % CO ₂
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, 10 W AC, 50 - 60 Hz
Secondary:	18 - 30 V DC

Communication interface

Modbus TCP/IP, RS485, Ethernet, Trigger input

Performance (depending on package line)

Measurement time:	Down to 5 ms
Measurement performance:	ppm CO ₂ increase is detected
Hole size:	Down to 1 µm can be detected depending on measurement time and application

Laser

Wavelength:	2004 nm
Output power:	< 10 mW
Laser class:	Class 1 laser product