

GPX101 CO₂ Standard

OEM sensor for integration



- **Less waste**
- **Non-intrusive MAP testing**
- **Low maintenance**
- **Traceability – test documentation is available for shipped products**
- **Potentially increased trust in the brand due to fewer complaints and recalls**

The GASPOROX GPX101 CO₂ standard OEM sensor is a completely non-destructive and non-intrusive inspection sensor for monitoring of carbon dioxide inside sealed packages.

This OEM sensor for integration offers the opportunity to keep track of the MAP gas of produced packages. The information allows the producer to maintain traceability of products, production discrepancies as well as to identify variations in MAP gas in sealed packages.

Technology

The GPX101 CO₂ Standard is based on Tunable Diode Laser Absorption Spectroscopy (TDLAS). The laser sensor technology has been developed by GASPOROX and GASPOROX's technology partner/supplier, and is also used in many industrial settings, including the petrochemical, pharmaceutical, and energy industries.

Specifications

General

Gas: CO₂
Startup time: <1 min
Measurement range: 0 - 100 % CO₂
Calibration: Every 12 months

Dimensions

Transmitter box: 180 x 85 x 68 mm, 1.3 kg
Receiver box: 127 x 125 x 90 mm, 1.3 kg

Electrical

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

Connections

Modbus TCP, RS-485, Ethernet

Performance

Measurement time: Down to 0.1 s
Resolution: Set by customer
Accuracy*: ± (0.1 % point + 5.0 % of reading)

Laser

Wavelength: 1570 nm
Output power: <10 mW
Laser class: Class 1 laser product

*Accuracy depends on sample geometry and measurement time.