

GPX1000

Headspace gas analyser for non-intrusive sampling



- **Reliable oxygen sensing**
- **Non-intrusive MAP testing**
- **User-friendly touch screen**
- **Down-loadable data**
- **Low maintenance**

The GASPOROX GPX1000 represents a completely new approach to headspace oxygen gas analysis – fast, accurate, non-intrusive and non-destructive. The optical gas sensor is based on 25 years of development and refinement of industrial laser gas sensors. This sensor technology has now been adapted to headspace gas analysis of Modified Atmosphere Packages (MAP) and other packages where headspace gas testing is needed.

GPX1000 allows quick and easy testing of packages. The result is presented immediately on screen, and logged internally. The non-destructive measurement lets you return the samples to the production line – no waste. It also allows time studies on single packages.

Several types of packages are supported, including sealed trays, thermoforms, bags, flow wraps, and many others. The analyser is intended for packages including transparent materials to allow clear line of sight between laser and detector.

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How it works

The sample is placed under the measurement head, which is adjusted so that there is no air between the sensor and the package. An infrared light beam is reflected against a surface inside the package, and probes the gas inside. The laser light is completely eye safe.



GPX1000 can be operated in vertical mode to facilitate analysis of headspaces in bags - even with liquids.

Technology

The GPX1000 oxygen sensor 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 used in many industrial settings, including the petrochemical, pharmaceutical, and energy industries.

Specifications

General

Gas species:	O ₂
Startup time:	<1 min
Measurement range:	0.1 - 100% O ₂
Headspace thickness:	16 - 80 mm
Calibration:	Every 12 months

Dimensions

(h×w×d)	210×380×265 mm
Weight:	7.8 kg

Electrical

Primary:	100-240V, 50W AC, 50-60Hz
Secondary:	24V DC

Connections

Ethernet
USB

Performance

Measurement time:	min.0.5 s, typical 4 s
Resolution:	0.1% absolute
Accuracy:	0.1% absolute*

Laser

Wavelength:	760 nm
Output power:	<0.5 mW
Laser class:	Class 1 laser product

*accuracy can depend on sample geometry and other factors

GASPOROX AB
Magistratsvägen 10
226 43 Lund

www.gasporox.se
info@gasporox.se