OpTech® - O$_2$ Platinum

Benefits

- No gas extraction

- Fast reading of O$_2$

- Shelf life testing

- Headspace measuring

Features

- Non-invasive measurement

- Light weight

- PC software included

- **OPTION:** Invasive needle

Versatile and innovative

The OpTech-O$_2$ is a simple yet effective tool for any laboratory with the need to measure oxygen inside a closed package or container. The OpTech gives the user the ability to measure the oxygen in a non-invasive manner through a transparent foil – making it perfect for shelf life determination of oxygen sensitive products.

Additional accessories like the OpTech needle and the ImPULSE™ sensor enable the OpTech to measure oxygen in applications with limited headspace and also to measure oxygen through opaque packaging material.

The OpTech measures oxygen using an optical principle, which means that it does not extract any gas from the sample and thus makes it ideal for long-term testing of the same package.

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HOW DOES IT WORK?

The OpTech-O_2 Platinum sensor can be deployed in three ways:

1: The platinum sensor comes ready to use in sticker format; reusable sensors for headspace applications in clear packaging. These sensors are placed inside the package using the convenient vacuum pen. The package is sealed and oxygen is measured non-destructively through the packaging material. This sensor type is ideal for package shelf life studies and distribution studies.

2: ImPULSE™ platinum sensor measures oxygen inside opaque and retort packages, these sensors can be used for long term shelf life and respiration studies.

3: An invasive needle incorporating the platinum sensor for destructive headspace measurement in applications with limited headspace, like coffee pods and blister packs.

Dash-gastec-OpTech O_2 Platinum-EN-1

Technical Specifications

Detector and base	
Warm-up time	20 minutes
Detector dimensions	4.83 x 3.30 x 22.86 cm with needle (HxWxD) 4.83 x 3.30 x 15.24 cm without needle (HxWxD)
Measurement method	Optical fluorescence
Power	Standard power USB port (2.5 watt)
Operating temperature	10-35°C
Compliances	CE/CSA/UL
Sensors: **Adhesive and ImPULSE™ sensors**	
Repeatability (certified)	± 0.015% (150 ppm) O_2 or 3% of reading, whichever is greater
Range	0.001% (10 ppm) to 25% O_2 permeation mode 0.015% (150 ppm) to 25% headspace mode
Operating temperature	5-40°C
Needle sensor	
Repeatability (certified)	± 0.015% (150 ppm) O_2 or 2% of redading, whichever is greater
Range	0.015% (150 ppm) to 25% headspace mode
Operating temperature	5-40°C

Conforms to ASTM F2714-08.

Specifications subject to change without notice.

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