

For Quality Control checking of modified atmosphere in food products



Applications

Fish
Salads
Vegetables
Bakery
Fresh & Cooked Meat
Snack Foods
Ready Meals
Pharmaceutical Vials,
Ampoules and Packaging

Features & Benefits

- Fully portable
- Easy to use and calibrate
- Robust construction
- Maintenance free
- Replaceable oxygen cell
- Quick response

The Portamap portable gas analyzer is specifically designed to test for the presence of oxygen and carbon dioxide in food packaged under modified and controlled atmospheres.

The instrument is simple to use and is powered by maintenance free batteries which can be recharged by simply connecting the analyzer to the mains supply.

The Portamap utilizes the Illinois electrochemical fuel cell for oxygen analysis and an infra red sensor for carbon dioxide analysis.

Unlike many electrochemical cells, the Illinois cell is unaffected by carbon dioxide.

Testing is done by simply inserting the needle probe into the package for test and pressing a switch on the front panel to start the internal sample pump. The analysis of the gas is then shown on the LCD display. Periodic calibration can be carried out using air or a calibration gas.

The Portamap is robust in construction and is unaffected by vibration or operating position. It is not flow sensitive or affected by changes in atmospheric pressure.

Portamap 1 oxygen and Portamap 2 oxygen & carbon dioxide



Portamap 1

IP40, ABS
with tilting carry handle
Portable or bench mounted
10.31W x 4H x 0.98D (inches), weight 7 lbs



Portamap 2

IP40, ABS
with tilting carry handle
Portable or bench mounted
10.31W x 4H x 0.98D (inches), weight 10.4 lbs

Technical Specifications

Ranges

Oxygen		0-100%
Carbon Dioxide		0-100%
Resolution		0.1% of scale
Accuracy:	Oxygen	±0.1% of calibrated value
	Carbon Dioxide	± 2% of reading
Response time		90% of reading in 20 seconds
Measuring cell type:	Oxygen	Electrochemical fuel cell
	Carbon Dioxide	Dual infra-red detector
	Oxygen Cell life	Use Dependent (typically three years at 21%)

Operating conditions

Sample inlet pressure	Ambient - internal pump as standard
Sample temperature	32 to 104°F (0 to 40°C)
Ambient temperature	32 to 104°F (0 to 40°C)
Sample connections	Needle probe
Unsuitable gases	Not applicable

Power Requirements

Power supply	Maintenance free rechargeable battery 230 or 115V ±5%, 50/60Hz mains supply
Battery life	Portamap 1 - 24 hours continuous use Portamap 2 - 12 hours continuous use
Recharge time	8 hours
Display type	LCD digital meter

Options

Probes	Various sampling probes to suit application, needles, filters, septas
Can piercing station	
Carry case	

Illinois Instruments have over 25 years experience of providing analysis solutions for a wide range of industries. From our manufacturing plant in the U.S. we produce gas analyzers for industrial process industries, headspace analyzers for monitoring gas flushing of food products, and our range of permeation analyzers.

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