

# Portable Gas Analyser

For Quality Control Checking of Food Products

Portamap 1 - for oxygen only

Portamap 2 - for oxygen and carbon dioxide



**The Portamap portable gas analyser 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 analyser to the mains supply.

The Portamap utilises the Systech electrochemical fuel cell for oxygen analysis and an infra red sensor for carbon dioxide analysis. Unlike many electrochemical cells, the Systech 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 LED 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.

## Features

- Fully portable
- Simple to use
- Easy calibration
- Robust construction
- Maintenance free
- Replaceable oxygen cell
- Quick response

## Applications

- MAP/CAP applications
- Food Packaging
- For testing of:
  - Bulk packs
  - Retail packs
  - Packaging films
  - Packaging lines
- By
  - QC operators
  - Field engineers
  - R&D personnel
  - Packaging engineers



*Portamap 1*



*Portamap 2*

## Technical Specification

<i>Ranges</i>	O <sub>2</sub> :	0-100%
	CO <sub>2</sub> :	0-100%
<i>Resolution</i>		0.1% of scale
<i>Accuracy</i>	O <sub>2</sub> :	±0.1% of calibrated value
	CO <sub>2</sub> :	±2% of reading
<i>Response time</i>		90% of reading in 20 seconds
<i>Measuring cell type</i>	O <sub>2</sub> :	electrochemical fuel cell
	CO <sub>2</sub> :	single beam infra-red detection
	O <sub>2</sub> Cell life:	use dependent (typically three years at 21%)

### OPERATING CONDITIONS

<i>Sample inlet pressure</i>	Ambient – internal pump as standard
<i>Sample temperature</i>	0 to 40°C
<i>Ambient temperature</i>	0 to 40°C
<i>Sample connections</i>	Needle probe
<i>Unsuitable gases</i>	Not applicable

### POWER REQUIREMENTS

<i>Power supply</i>	Maintenance free rechargeable battery 230/115V ±10%, 50/60Hz mains supply
<i>Battery life</i>	Portamap 1 – 24 hours continuous use Portamap 2 – 12 hours continuous use
<i>Recharge time</i>	8 hours
<i>Display type</i>	LCD digital meter

### CABINTRY AND MOUNTING

<i>Enclosure</i>	ABS with tilting carry handle
<i>Installation</i>	Portable or bench mounted
<i>Dimensions</i>	262W x 102H x 257D (mm)
<i>Weight</i>	Portamap 1 = 3.2kg
	Portamap 2 = 4.7kg
<i>Ingress protection</i>	IP40

### OPTIONS

<i>Probes</i>	Various sampling probes to suit application
<i>Carrying Case</i>	



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.