

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

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

OPERATING CONDITIONS

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

POWER REQUIREMENTS

Power supply	Maintenance free rechargeable battery 230/115V ±10%, 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

CABINTRY AND MOUNTING

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

OPTIONS

Probes	Various sampling probes to suit application
Carrying Case	



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