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Portamap



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
- 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 Illinois electrochemical fuel cell for oxygen analysis and an infra red sensor for carbon dioxide analysis.

- Maintenance free
- Replaceable oxygen cell
- Quick response

Unlike many electrochemical cells, the Systech 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 Portmap 2 oxygen & carbon dioxide





IP40, ABS with tilting carry handle Portable or bench mounted 262W x 102H x 257D (mm), weight 3.2 kg

Technical Specifications

Portamap 1

Portamap 2 IP40, ABS with tilting carry handle Portable or bench mounted 262W x 102H x 257D (mm), weight 4.7 kg

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Ranges Oxygen		0-100%		
Carbon Dioxide		0-100%		
Resolution		0.1% of scale		
Accuracy:	Oxygen Carbon Dioxide	±0.1%of calibrated value ± 2% of reading		
Response time		90% of reading in 20 seconds		
Measuring cell type:	Oxygen Carbon Dioxide Oxygen Cell life	Electrochemical fuel cell Dual infra-red detector 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 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	otions			
Probes		Various sampling probes to suit application, needles, filters, septas		
Can piercing station				
Carry case				

Systech Illinois have 30 years experience of providing analysis solutions for a wide range of industries. From our manufacturing plants in the UK and U.S. we produce gas analysers for industrial process industries, headspace analysers for monitoring gas flushing of food products and our range of permeation analysers.

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Systech Illinois reserve the right to change specifications without notice. 07/2017

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