

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 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.

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 Portamap 2 oxygen & carbon dioxide



Portamap 1

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



Portamap 2

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

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	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

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.

Systech Instruments Ltd (UK)
17 Thame Park Business Centre,
Wenman Road,
Thame, Oxfordshire OX9 3XA
Tel: +44 (0)1844 216838
Fax: +44 (0)1844 217220
E-mail: sales.uk@systechillinois.com
www.systechillinois.com

Illinois Instruments, Inc (U.S)
2401 Hiller Ridge Road
Johnsburg, Illinois 60051
U.S.A
Tel: +1 815 344 6212
Fax: +1 815 344 6332
E-mail: sales.usa@systechillinois.com
www.systechillinois.com

Illinois Instruments (Thailand)
26/6 Ladprao 23, Jatujak,
Bangkok 10900
Thailand
Tel: +66 (0)2030 5851
Fax: +66 (0)2030 5850
E-mail: sales.ap@systechillinois.com
www.systechillinois.com

Systech Illinois (China)
Room 1107-1108 Forte Building
No. 910 Quyang Rd, Hongkou
district, Shanghai, China 200437
Tel: +86 21 65533022
Fax: +86 21 65539651
E-mail: info@systechillinois.cn
www.systechillinois.cn