

8200 Oxygen Permeation Analyser



Simple, cost effective oxygen permeation testing for packages and bottles

Applications

- PET bottles
- Containers
- Canisters
- Flexible pouches
- Bags



Features & Benefits

- Simple & quick changeover of samples
- Easy to use software
- Versatile permeation analysis
- Designed specifically for packages
- Low cost system
- Accuracy traceable to current NAMAS/N.I.S.T. standards

The Systech Illinois 8200 is ideal for oxygen permeation testing of packages and bottles. This two station analyser is the economical solution – it incorporates the reliability and wide measurement range of our leading permeation instruments but is designed to be cost effective.

The 8200 offers versatile permeability analysis of containers, canisters, pouches, bags, closures and more. The removable adaptors offer a range of testing methods and can even be tailored to a specific requirement.

It has the ability to evaluate a wide variety of barrier alternatives and their corresponding performance.

The proven coulometric sensor provides reliable, repeatable and accurate measurements time and time again.

Simple windows based software means the permeation analyser is easy to set up with QuickStart stored testing configuration settings and clear concise results.

No special gases are required, all you need is pure nitrogen.

Conforms to: ASTM D-3985 ASTM F-2622 ISO 15105-2 DIN 53380 JIS K-7126
Electromagnetic Compatibility Directive 89/336/EEC Low Voltage Directive 73/23/EEC

8000 range of Oxygen Permeation Analysers

Systech Illinois' range meets the requirement for the testing of any application.



8001

533 x 533 x 305 (mm) 28.1kg
2 stations for films or packages,
precise humidity control, can switch
between wet or dry samples within
minutes.



8200

533 x 533 x 305 (mm) 25.4kg
2 station for films or packages.



8001L

533 x 533 x 305 (mm) 28.1kg
As 8001, with new coulometric oxygen
sensor.



8501

356 x 356 x 279 (mm) 18.2kg
Reduced specification single station
for film or package, dry test only.



8002

533 x 533 x 305 (mm) 28.1kg
As 8001, but tests only dry or wet
(assumed 100% RH).



8700

760 x 590 x 350 (mm) 65kg
11 stations for testing bottles.



8003

533 x 533 x 305 (mm) 28.1kg
As 8001, but tests dry only.



8701

760 x 590 x 350 (mm) 65kg
11 stations for films or packages.

Technical Specifications

8001 8001L 8002 8003 8200 8501 8700

	8001	8001L	8002	8003	8200	8501	8700
OTR Test Range							
Films							
0.005 - 432,000 cc/m ² /day (0.0003 - 28,000 cc/100in ² /day) No masking required		✓					
0.008 - 432,000 cc/m ² /day (0.0005 - 28,000 cc/100in ² /day) No masking required	✓		✓	✓			
0.04 - 100,000 cc/m ² /day (0.0001 - 5,000 cc/100in ² /day) No masking required					✓		✓
1 - 99,999 cc/m ² /day (0.07 - 6,800 cc/100in ² /day) No masking required						✓	
Package							
0.000025 - 2,000 cc/pack/day		✓					
0.00004 - 2,000 cc/pack/day	✓		✓	✓	✓		✓
Test Temperature Range							
5°C to 50°C (41°F to 122°F)	✓	✓	✓	✓	ambient		ambient
15°C to 40°C (59°F to 104°F)						✓	
Controlled RH Testing							
Dry (0% RH) or generated RH (20% to 90%)	✓	✓					
Dry and Unknown Wet RH (Assumed saturated or 100% RH)			✓				✓
Dry only				✓	✓	✓	✓
Expansion							
Expandable up to 5 Modules (Total 12 test cells)	✓	✓	✓	✓	✓		
Expandable up to 5 Modules (Total 66 test cells)							✓
Test Sample Size							
Films 50cm ²	✓	✓	✓	✓	✓		✓
Films 100cm ²						✓	
Packages	✓	✓	✓	✓	✓		✓
Calibration							
Films or NIST gas	✓	✓	✓	✓	✓	✓	✓
Automatic Temperature Control							
	✓	✓	✓	✓	ambient	✓	ambient
Power rating							
100-240 VAC, 50/60 Hz, 840 VA (max)	✓	✓	✓	✓	✓		
100-240 VAC, 50/60 Hz, 150 VA (max)						✓	✓

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
Email: info@systechillinois.cn
www.systechillinois.cn