



1 TEST DEVICE FOR

Gas Analysis Leak & Seal Strength







FOR CONTROL OF PACKAGING INTEGRITY

- ACCURACY OF MEASUREMENT AND USER-FRIENDLY
- MANAGING AND OPTIMIZING PRODUCTION SETTINGS
- 1 INSTRUMENT 3 TESTS : GAS ANALYSIS O₂ AND/OR CO₂, MICRO-LEAKS & BURST
- FULLY DIGITIZED TRACEABILITY

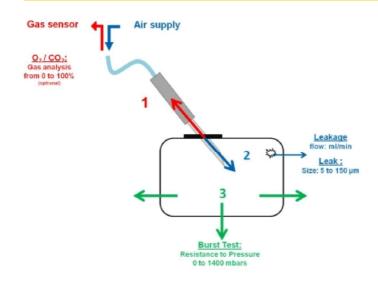
ACQUIRE A SCIENTIFIC METHOD - OBJECTIVE AND RELIABLE SENSITIVITY DOWN TO 5 µm The answer to your problems related to integrity and improvement of your packages, Exos merges innovation and a user-friendly interface to focus on production optimization.

Three key features make this instrument invaluable: METHOD OF MEASUREMENT, USER-FRIENDLY, AND CONTROL

Rational METHOD OF MEASUREMENT

Exos measures and quantifies the integrity of your packages and helps in setting up essential parameters of process control for any kind of package (soft bags, thermoformed, semi-rigid, metal boxes, MAP, and vacuum packed).

The analysis is made in 1 test with only 1 sample, and includes 3 steps of measurement



Exos principle of measurement is based on flow to

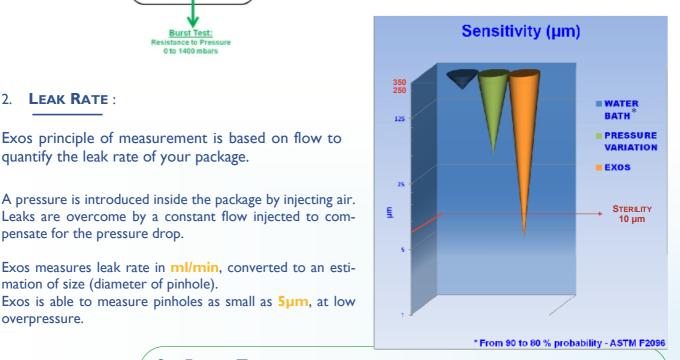
Leaks are overcome by a constant flow injected to com-

quantify the leak rate of your package.

I. GAS ANALYSIS :

Exos samples a low volume of gas coming from the headspace and gives the rates of O_2 and/or CO_2 - in % V/V.

This step is dedicated to MAP applications. Exos is also available without gas analysis.



overpressure.

2.

LEAK RATE :

pensate for the pressure drop.

mation of size (diameter of pinhole).

3. **BURST TEST**:

Exos characterizes the resistance to opening of your package. An increasing slope of pressure (from 50 to 1400 mbar) is applied to the inside of the package until the package bursts.

This quantifies "easy opening", and clearly identifies the weakest points of your package.

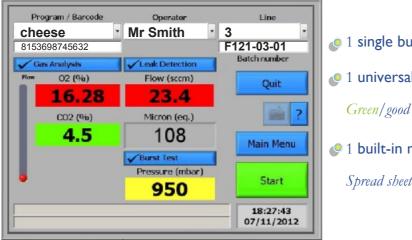
A user-friendly digitized traceability ...

Résultat	02 (%)	CO2 (%)	Débit (ml/m	Micron (eq	Pression c	Seuil1 O2	Seuil2 O2	Seuil1 CO2
Mauvais	2,05	18,0	19,2	137	30	>1,00%	XXX	<20,0%
Mauvais	2,60	17,5	135,6	150	30	>1,00%	XXX	<20,0%
Mauvais	3,00	17,0	6,1	15	30	>1,00%	XXX	<20,0%
Mauvais	2,03	18,0	44,0	150	30	>1,00%	XXX	<20,0%
Bon	0,94	21,3	2,0	35	30	>1,00%	XXX	<20,0%
Mauvais	20,39	18,0			30	>1,00%	XXX	<20,0% Jhrn
Mauvais	21,05	18,0	5,5	53	30	>1,00%	XXX	<20,0% 💟



USER-FRIENDLY

EXOS can be used on the production floor or in the laboratory. Therefore, the interface has been designed to be extremely simple and user friendly.



- 1 single button to press to start the test
- 1 universal color code

Green/good - Orange/questionable - Red/bad

1 built-in management of records

Spread sheet ready, remote access through the network.

CONTROL OF PROCESSES AND METHODS

EXOS helps you understand your packaging process :

- Optimization of production settings
- · Control of "easy opening "
- · Leak detection over time
- · Control of vacuum packed products back to atmosphere
- Optimize Time and temperature of sealing machines
- · Validation of your new designs, materials, geometry, and raw materials
- · Validation of production machine set up, new films, and production equipment



Reliable test, User friendly, Quick test, Remote maintenance by internet, 24/7 Aids in the servicing of your sealing machinery

GAS ANALYSIS			
Gas	O ₂	CO ₂	Program / Barcode Operator Line
Technology	Electrochemical	NDIR	program - operator
Accuracy	+/- 1% relative	+/-2% full scale	Gas Analysis Leak Detection Batch number Pow 02 (%) Flow (sccm) Quit
Resolution	0.01%	0.1%	16.28 23.4 C02 (%) Micron (eq.)
Sampling time *	6 s (Target 1%)	8 s (Target 90%)	4.5 108 Main Menu Pressure (mbar)
LEAK MEASUREMEN	Г		950 Start
Technology	Flowmeter		18:27:43 07/11/2012
Accuracy	+/-2% of the full scale		
Repeatability	+/- 0.3 % relative		
Resolution	0.1 ml/min	1 µm	
Test pressure	20 to 500 mbar +/- 1 r	nbar	
Range	0.1 - 500 ml/min	From 5 µm to 300	μm
Inflating flow	4 200 ml/min min. at 2	0 mbar	
BURST TEST			Interactive world oriented
Technology	Barometric		
Accuracy	+/-0.5 % full scale		AOS Range
Resolution	1 mbar		Ω
Range	0.05 - 1.4 bar		
DEVICE			
Dimensions Weight	D230 W340 H170 (mm)	5 kg max	FLEXIBLE AND USER-FRIENDLY INTERFAC
Memory capacity	From 4 to 32 GB		
Ports	1 USB, 1 Ethernet		REMOTE ACCESS REMOTE MAINTENANCE 24/7 TOUCH PANEL - COLOR CODE
Interface	Color graphic touch pa	anel 5"7 (14.5 cm)	ក្ខ័រ ស្ត្រ TOUCH PANEL - COLOR CODE
Power supply Air supply	100-230 VAC 50-60 Hz	4 to 8 bar	©
Temperature	0°C / +40°C – 98 RH	•	
Ingress Protection	IP 41 (IP 54 optional)		
SUPPLIED KIT	OPTIONAL ACCESSORIE	s	
Sampling kit	Calibrated leaks	IP65 Connectors	Open System
Filters	Bar code reader	Keyboard	
Septums / Needles	Printer	WiFi kit	Contact Information
Detectable stylus	Memory Stick / USB		GasTech Australia Pty Ltd 24 Baretta Rd Wangara Western Australia 6065 Tel 1800 999 902

http://www.gastech.com.au

For any other inquiry about specifications or advice please contact us Tel 1800 999 902 Fax 1800 999 903

* at atmospheric pressure in referenced air 20.94% $\text{O}_2\text{---}\text{Gas}$ analyzer sampling kit