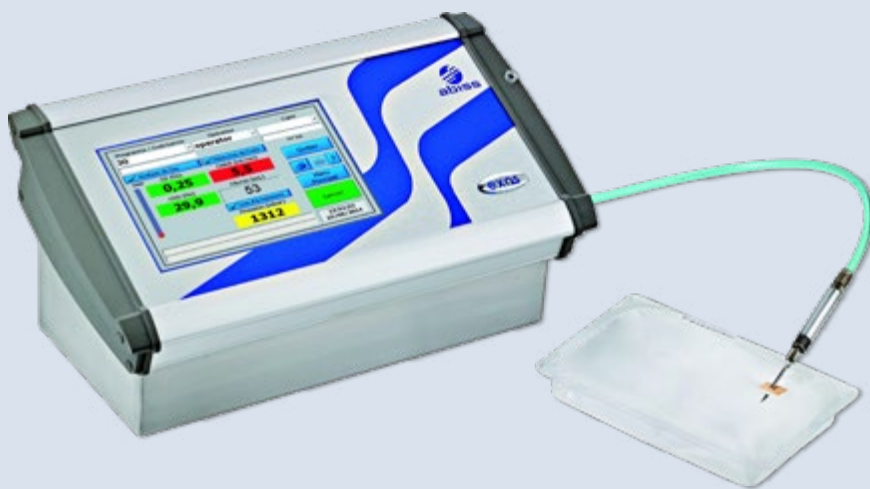


THE MICRO-LEAK ANALYSER FOR ALL TYPES OF PACKAGING



BENEFITS

Measure, audit, and optimise your packaging process in controlled, reproducible test conditions.

Check «easy open» packages with a dynamic burst or resistance measurement.

The solution for vacuum-sealed packaging : Measure leaks immediately after sealing.

Dry and hygienic tests : No tracer gas.

Measure and evaluate the slightest technical changes.

Help in creating packaging : Materials, structure, design, etc.

How can you control the quality of your packaging?

EXOS is easy to use, testing the tightness and strength of seals on all types of packaging and containers.

EXOS gives you complete information about the initial condition of your packaging so you can identify the expiry date or best-before date.

EXOS measures :

- Leaks down to 5 µm (leak flow rate given in ml/min)
- The creep test of the packaging
- The strength of seals up to 1.4 bar

This adaptable device is suitable for laboratory and production use. EXOS measures and quantifies the essential parameters for your packaging inspections.

FEATURES

- Measures micro-leaks + creep test + seal strength
- Meets standards
- **DIN 55508-1** : measures flow rate at constant pressure
- **ASTM F1140** : seal strength
- **ASTM F2054** : burst test
- Highest sensitivity in very low overpressure: **micro-leaks down to 5 µm at over 10 mbar**
- **Measures breathability:** micro-perforated films
- **Detects clogged circuits**
- **Wholly traceable:** use all data analysis possibilities via USB, Ethernet, or directly in your ERP system.
- **Remote connection and 24/7 remote maintenance:** leverage the power of connected technology.

SCOPE OF APPLICATION

EXOS is used in the food processing, cosmetics, and pharmaceutical industries for **all types of packaging including vacuum sealed**, flexible, rigid, semi-rigid, and metal membrane sealed.

HOW DOES IT WORK? [video link](#)



1. Select the programme

Select a program. Use the retaining arm to pierce the packaging with a needle through a septum. Once the needle is in position, the test can begin.

2. Start the test

LEAK MEASUREMENT

The device measures the airflow needed to maintain a set overpressure in the packaging.
Leaks are shown metrologically in ml/min and equivalent μm .

CREEP TEST

Application of a constant test pressure to the packaging and monitoring of flow and pressure as a function of time.

or

BURST TEST

Pressure is applied to the package to measure the pressure needed to burst the package.

3. End of the test

The compliance of the results is shown in colours compared to the preconfigured thresholds.
Remove the needle from the packaging.

SPECIFICATIONS

EXOS LEAK

Device	IP54 table analyser in aluminium and stainless steel with 7" colour touchscreen
Weight and dimensions	4,5 kg - L 340 mm x H 170 mm x D 230 mm
Power supply	100-250 VAC - 50/60 Hz - 63 W
Compressed air	4 to 8 bar (dry and oil-less) filtered to 20 μm
Ports	1 USB 2.0 and 1 RJ45 Ethernet
Features	Clogged circuit detector Compensates for variations in atmospheric pressure Complete traceability Remote connection Analytical curves (displayed and recordable)
LEAK MEASUREMENT - Standard DIN 55508-1	
Technology	Mass flowmeter
Precision	+/- 0.8% full scale (μm) +/- 1% of the reading + 0.1 ml/min
Resolution	0.1ml/min - 1 μm
Measurement	0.1-500 ml/min - 5 μm to 500 μm
Pressure	Adjustable from 10 to 500 mbar
Flow	Filling: 4200 ml/min

CREEP TEST Standard ASTM F1140

Technology	Piezoresistive barometer	Piezoresistive barometer
Precision	+/- 0.5% full scale	+/- 0.5% full scale
Resolution	1mbar	1mbar
Measurement	200 - 500 mbar	0.2 - 1.4 bar
Pressure	500 mbar	Up to 1.4 bar
Flow	Filling: 4200 ml/min	Inflation: Minimum 250 L/h

BURST TEST Standard ASTM F1140

OPTIONS

- 3G router + HMI Advanced
- Waterproof RJ45 Ethernet port

ACCESSORIES

- 2.5 L buffer tank with check valve
- The flexible probe holder : holds the needle during the test.
- The calibrated leak to control the leakage measurement
- The barcode reader select faster the test program.
- The pressure regulator with filter for compressed air
- The metal detectable stylus for the touchscreen
- The can piercer to pierce metal or rigid membrane packaging
- The secured needle holder
- The needle cleaning tool

DEVICE DELIVERED WITH

- 1 IP67 Case: 566x438x216 mm
- 1 Power supply
- 1 Stabilization tank
- 1 000 Septums leak
- 1 Flexible probe holder
- 2 Stainless needles
- 1 Sampling kit
- 1 Detectable stylus
- 1 Filter regulator for compressed air
- Calibration certificate and user manual
- 1 USB key
- 1 3G key