Dansensor®
LIPPKE 5000
PACKAGE TESTING SYSTEM

Seal strength and package integrity

AMETEK® | **mocon®**

BENEFITS & FEATURES

Leak and seal strength testing using air pressurization

The NEW Dansensor® Lippke® 5000 is a bench-top instrument designed to perform a wide variety of seal integrity tests to exacting standards.

It measures the seal strength and package integrity of flexible, rigid, porous and laminated foil in many applications. These can include modified atmosphere (MAP), vacuum and skin packaging. With an extensive array of features and accessories, it meets applicable ISO and ASTM standards.

Monitoring package integrity is vital in many industries: e.g. Medical (maintaining product sterility), Pharmaceutical (meeting standards and protecting product effectivity) and Food (ensuring food safety and maintaining freshness).

The Dansensor Lippke 5000 offers many improvements over earlier models, including shorter fill times, higher pressures and minimized over-shoot. Data import and export have been made easier with an integrated USB port, cloning and back-up functions and optional accessories, like a barcode scanner and printer.

The graphic user interface gives access to many features and settings. Optional PC software provides additional data graphing and statistical analysis capabilities.

Dansensor Lippke 5000 provides exact, definable and reproducible test results – both in production and laboratory environments.

Benefits

- Optimized pressure regulation and fill times
- Improved accuracy and short test cycles
- Visual display of test results
- Pump feature easily inflates flat packages
- Broad 1-5 bar pressure range
- Easy installation and data sharing

Features

- New, improved measuring algorithm
- Test heads with integrated sense probe
- Touch screen with multilingual GUI
- Data capture, storage & export on all units
- USB port for optional barcode scanner, label printer or keyboard
- Compliant with ASTM and ISO standards
- IQ/OQ available
- PC software option for: FDA 21 CFR, part 11 compliance, test reports (PDF), graphs, combined test, interface with SQL database
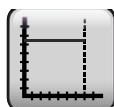
Test Types
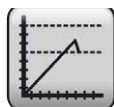
Burst test

The package is pressurized at a given rate to the point at which the seal bursts. Complies with ASTM F1140 (unrestrained) and ASTM F2054 (with restraining plates).
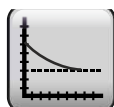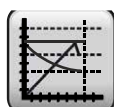
Leak test

The package is pressurized to a predetermined level and is held at that pressure for the required test time. Pressure management and leakage testing per ASTM F2095.

Creep test

The package is pressurized to a preselected pressure, near the burst limit, and held for a period of time. Optional tests: Creep and Creep to fail. Complies with ASTM F1140.

Combined test

Test a combination of up to three different test types on the same package. Each test is completed on a single sample, reducing sample loss. PC software option is required.

Bubble test

The package is placed under water, pressurized to a predefined pressure and held there for a predefined time. Complies with ASTM F2096.

ACCESSORIES

Test heads & Needles

Both the handheld and stand-mounted test heads feature an integrated sense probe and can be combined with either a sharp or blunt 4 mm needle

Other handheld needle options include: dual needles for feed and sense and a mono needle with Y-connector

Stands & Restraining Plates

Basic stand – the test head can be combined with a sharp or blunt needle or a tube adaptor

Pneumatic Package Clamp (PPC 300 II) – perform burst tests on most types of packages, bags or pouches that are open on one side

Fixture for ASTM F2054 restraining – restrains the package to ensure the pressure affects the package sealings in the correct way

Septa

A septum ensures an airtight seal and protects the package from tearing. Different types of septa are suited to different packages and needles.

Additional Accessories

Clockwise from top left: Valve Test Unit (VTU) for degassing valves, IV-bag adaptor, Feed tube filter, Pressure release valve, Barcode reader (USB), Tube adaptor (for threaded connectors), Pressure regulator incl. filter

CONFIGURATIONS
AND SPECIFICATIONS

Available Variations

Configurations	Item no.	Leak	Burst	Creep	Bubble	Combined tests	21 CFR, part 11 with PC Software	IQ/OQ Documents
	600707	•	•					
	600710	•	•	•	•			
	600713	•	•	•	•	•	•	
	600708*	•	•	•	•	•	•	•

This product configuration is intended for use in healthcare, medical device and pharmaceutical packaging testing applications. This instrument requires a computer.

Technical Specifications

Specifications	All models
Package types	Flexible, semi-rigid and rigid packages
Test types	Burst, leak, creep, bubble, combined test
Test package size	1-90 000 ml
Test time	1-500 sec
Measuring range	10-5000 mbar (0.15-72.5 psi) Low range: 10-350 mbar (0.15-5.0 psi) High range: 350-5000 mbar (5.0-72.5 psi)
Displayed resolution	0-1000 mbar: 0.1 mbar 1000-5000 mbar: 1 mbar
Accuracy of measurement	Low range: ± 0.5 mbar (0.007 psi) or ± 0.5% of reading High range: ± 5 mbar (0.07 psi) or ± 0.5% of reading
Number of test definitions	300
Data collection capacity	Test data from more than 1,000,000 tests
Data collection type	Exported to CSV file
Dimensions (WxDxH) and weight	284 mm x 236.5 mm x 185 mm (11.2" x 9.3" x 7.3") 3.4 kg (7.5 lbs)
IP class	IP 20
Ambient temperature	Operational: +2℃ to +35℃ Storage: -20℃ to +60℃
Relative humidity	+2℃ to +25℃: 10 to 90 %RH; +25℃ to +30℃: 10 to 70 %RH; +30℃ to +35℃: 10 to 50 %RH (non condensing)
Ambient pressure	900-1050 mbar
Power supply and consumption	100-240 VAC, 47-63 Hz Max 40W
Air supply pressure and connection	4.0-6.5 bar; at least 1 bar above the test pressure Ø6/4mm tube DIN ISO 8573-1:2010 [F4:4:3]
Air consumption	Max 100 L/min (depending on test settings)
Connectivity	LAN: RJ-45 Ethernet 10/100 Mbit/s, DHCP client or fixed IP USB: 1 x Host, USB 2.0 Type A, 1 x Device, USB 2.0 Type B (max current 500 mA)
Compliance	CE , China RoHS II
Standards	ASTM F-1140, F-2054, F-2095, F-2096, ISO 11607

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