

- ❖ Online Data Management system for Packaging Testing - The ultimate cloud computing technology for test data processing and management
- ❖ Designed with embedded computer control system and intelligent operating software
- ❖ Can be used to test leak and seal strength of flexible and sterilized packages which are made by heat seal and adhesive processing
- ❖ Conforms to ASTM, ISO, GB and other national and international standards.



## ***Online data management system for packaging testing***

Comes with two versions to meet distinct needs of our clients:

### **The Cloud Version**

- Consist of 6 functional modules: Test Management, Target Management, Instrument Management, File Management, Settings, and Online Support
- Cloud services: storage, calculation, and analysis of mass test data
- Automatically upload original test data to the cloud server to guarantee data security
- Intelligent statistical analysis of test results
- Easily accessible through the internet on PCs, laptops, mobile phones, and other devices anywhere and anytime, to check and review real time test results and historical test reports, as well as analytical graphs and statistical information

### **The Intranet Version**

- Featured with storage space for vast data, correlation analysis, trend analysis, and statistical analysis of test data, as well as report printing and data export functions
- Easily accessible via computers through Intranets
- “One Click Upgrade” to the powerful “Cloud Version”

## Functionality

- Positive pressure method and two testing modes including restrained inflation and unrestrained inflation
- Standard test methods including Burst Test, Creep Test and Creep-to-Failure Test
- Two test ranges are available with wide range of test pressure which can maximally be extended to 1.6 MPa and meet the requirements of different materials
- Various accessories for package testing both qualitatively and quantitatively
- Display test parameters and test results in multiple units

## Design

- Embedded computer control system provides safer and more reliable data management as well as test operation.
- The instrument can be easily operated with a mouse, a keyboard, and a monitor, without requiring a PC.
- The instrument is equipped with four USB ports and dual Internet ports for convenient data transmission.
- Sophisticated energy consumption and test environment monitoring and analysis functions for better test accuracy and reliability. (Relevant sensors are needed. For more information, please refer to the configuration in Technical Specifications.)
- Universal power input for easy access

## Software

- **Interface:** Windows-based operating interface
- **Statistics:** easy calculation for historical results, instrument usage, energy consumption, and large statistical information
- **Data Comparison:** by presetting target value and range, the system automatically generates data comparison after each test and intelligently judges whether the specimen passes or fails the test
- **Test Report:** can provide detailed test reports in various customized patterns
- **Energy Consumption and Test Status Monitoring (Additional Sensors Required):** the system monitors and displays real-time voltage, current, energy consumption of instrument as well as ambient temperature and relative humidity during the test, which serves to evaluate test data reliability
- **User Management:** multi-level account management for better data management and protection
- **Operation Log:** system automatically records all the operations by the user, which is easy to review

## Test Standards

This instrument conforms to various national and international standards:

ASTM F1140, ASTM F2054, ISO 11607-1, ISO 11607-2, GB/T 10440-2008, GB 18454, GB 19741, GB 17447, GB/T 17876, GB/T 10004, BB/T 0025, QB/T 1871, YBB 00252005, YBB 00162002

## Applications

This instrument can be used to measure the following materials:

Basic Applications	Film Materials	Test the ability to withstand pressurization stress of the completely sealed or three-sided sealed and one-sided open packages made of plastic films,
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	aluminum films, paper-plastic or aluminum-plastic composite films
Pilfer-proof Closures	Test seal performance of various pilfer-proof closures, e.g. closures used for packages of Coke, mineral water, beverage, edible oil, sauce (soy, vinegar and cooking wine), three-piece cans (beer and beverage cans), and paper cans (cylinders and potato chips )
Aerosol Valves	Test seal performance of various aerosol valves, e.g. vales of pesticide, hair spray, auto spray paint and medical spray packages
Flexible Tubes	Including various flexible tubes used in daily chemical products and other industries, e.g. flexible tubes of toothpaste, face cream, cosmetics, pharmacies and food
Medical Blister Packs	Test the ability to withstand pressurization stress of medical blister packs
Air Bags and Air Cushions	Test the seal performance of the air bags or cushions, e.g. air bag restraint system, life saving device and air cushion for transportation
Infusion Bags or Bottles	Test the seal performance of the medical infusion bags or bottles
Sterilized Bags	Test the seal performance of the sterilized bags for medical purpose (LSSD-01P Fixtures for Open Package Unrestrained Test is required)
Quantitative Closed Package Restraining Test	Measure the heat seal strength, the quality of heat seal, the burst pressure and the seal-leakage characteristics of each heat seal edge of flexible packages that are made by various kinds of heat seal technologies. It is internally pressurized and enclosed within restraining plates, such as the packages and laminated packages of food and medicines and etc. LSSD-01R Fixtures for Closed Package Restraining Test is required.
One-sided Open Flexible Package	Test the burst strength, seal performance and failure resistance of the one-sided open packages made by heat seal processing. LSSD-01P Fixture for Open Package Restraining Test is required.
Pilfer-proof Closures	Test the index between torque and airproof, capsule disengaging strength, stress force of materials and the data of airproof, press resistance and burst resistance for whole bottles. LSSD-01C Fixture for Plastic Pilfer-proof Closure Test is required.
Flexible Tubes	For the quantitative testing of leak characteristics, compression resistance, capsule disengaging strength, cap body joint strength, seal-edge seal strength and butting strength of flexible tubes, for example medical polythene/ aluminum/ compound polythene tubes/ aluminum medical tubes/ cosmetic flexible tubes and etc. LSSD-01F Fixture for Flexible Tube Test is required.
Aerosol Valves	For quantitative measurement of fluency, leak pressure, leak rate, seal performance and pressure resistance of aerosol valves. LSSD-01A Fixture for Aerosol Valve Seal Performance Test is required.

**Extended Applications (Additional Accessories Required)**

## Technical Specifications

<b>Test Specs</b>	Test Range	0 ~ 600 KPa; 0 ~ 87.0 psi 0 ~ 1.6 MPa; 0 ~ 232.1 psi (optional)
	Resolution	0.1 KPa
	Test Accuracy	0.1% FS
Gas Injection Head		Φ10 mm (standard) Φ4 mm, Φ1.6 mm (optional)
<b>Environment Monitoring Specs (Optional)</b>	Voltage Monitoring Range	AC 0 ~ 250 V, with ±0.5% accuracy
	Current Monitoring Range	0 ~ 15 A, with ±0.5% accuracy
	Energy Analysis Accuracy	±0.5%
	Environmental Temperature Monitoring Range	-10 °C ~ 55 °C, with ±0.1 °C accuracy
	Environmental Humidity Monitoring Range	0 ~ 100% RH, with ±2% RH accuracy
<b>Other Specs</b>	Gas Supply Pressure	0.4 ~ 0.9 MPa (outside of supply scope)
	Port Size	Φ8 mm PU Tubing
	Instrument Dimension	300 mm (L) x 310 mm (W) x 180 mm (H)
	Dimension of Testing Platform	305 mm (L) x 356 mm (W) x 325 mm (H)
	Power Supply	220VAC 50Hz / 120VAC 60Hz
	Net Weight	23 kg
<b>Configurations</b>	Standard	Mainframe (including Wireless Data Interface), Professional Software, LCD Monitor, Keyboard, Mouse, Test Frame
	Optional	Environment Monitoring Sensors ( including voltage, current, temperature, and humidity sensors ), LSSD-01R Fixture for Closed Package Restraining Test, LSSD-01P Fixture for Open Package Unrestrained Test, LSSD-01C Fixture for Plastic Pilfer-proof Closure Test, LSSD-01F Fixture for Flexible Tube Test, LSSD-01A Fixture for Aerosol Valve Seal Performance, Printer (compatible with PCL3)
	Online Data Management System for Packaging Testing	Wireless Data Transfer Module, High Gain Antenna

Note: 1. The gas supply port of the instrument is Φ8 mm PU Tubing;  
2. Customers will need to provide gas supply..

**Please Note:**

- ❖ Pictures used are for illustration purposes only and may differ from the actual product received.
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