

## LSST-01 Leak & Seal Strength Tester

LSST-01 Leak & Seal Strength Tester is applicable to quantitative determination of seal strength of sealing edges, heat seal quality, burst strength and leakproofness of the packages. It can also be used for quantitative determination of seal performance of plastic pilfer-proof closures, inflated packages, soft tubes and medical packages as well as analytical tests of the seal performance, compression resistance and burst strength of various bottles.



### Product Features

- Embedded micro-computer chips, simplified and efficient user interface provide users with comfortable and smooth operating experience.
- 7 inch HD LCD, displaying test data and curves in real time
- Multiple test modes including burst, creep, creep-to-failure and pressure maintaining.
- Supports restrained distension and un-restrained distension tests.
- Safety design such as over-voltage safety protection and power-down memory ensure the stability of the system during the test
- Equipped with standard RS232 interface, which is convenient to PC connection and data transmission.
- Low energy consumption makes the instrument environment-friendly.

### Originality Design

- Standard, modularized and systematic designs can meet personalized requirements of the users.
- Adopts high-precision electronic flow controller to realize precise control of gas flow

- Pressure and time can be preset, input the value directly to enter the test mode
- With a powerful data storage function, storing up to 50,000 test records
- The result is determined automatically, the test data can be printed
- The test frame and the gas injection head can be raised and lowered to improve the convenience of operation
- Based on the flat design concept, a new design of the UI interface has been carried out to bring users a more concise, efficient and comfortable operating experience

## Test Principle:

Fix the sample to a specific test fixture, adopts positive pressure method, is controlled by the embedded high-speed microcomputer chip. Manual choice of rupture test, creep test, creep to rupture test, holding pressure test or customized independent test mode, press test on the sample, the system displays the test data and test curve in real time.

## Applications

|                             |                                                |                                                                  |
|-----------------------------|------------------------------------------------|------------------------------------------------------------------|
| <b>Basic Application</b>    | Burst Test                                     | Burst strength tests of various packaging bags, boxes            |
|                             | Creep Test                                     | Creep tests of various packaging bags and boxes                  |
|                             | Creep-to-failure Test                          | Creep-to-failure tests of various packaging bags and boxes       |
| <b>Extended Application</b> | High-pressure Test                             | The maximum pressure applied can be 1.6MPa                       |
|                             | Pilfer-proof Closure                           | Seal performance tests of various pilfer-proof closures          |
|                             | Three-sided Sealing Materials                  | Tests of packaging bags with three-sided seal and one-sided open |
|                             | Compression resistance of medical blister pack | Tests of various blister packs                                   |

|  |                |                                                                                                                                                          |
|--|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Soft Tubes     | Tests of various soft tubes for daily chemical products including toothpaste, facial cleaner, cosmetics as well as medical creams and some food products |
|  | Aerosol Valves | Tests of various aerosol valves, e.g. vales of pesticide, hair spray, auto spray paint and medical spray packages                                        |

## Technical Specifications

| Specifications       | LSST-01                                     |
|----------------------|---------------------------------------------|
| Test Range           | 0 ~ 600kPa; 0~87psi (Standard)              |
|                      | 0 ~1.6 Mpa; 0 ~232.1 psi (Optional)         |
| Gas Injection Head   | Φ10 mm (Standard) Φ4 mm, Φ1.6 mm (Optional) |
| Gas Supply Pressure  | 0.4 Map~0.7 Map (Not in supply scope)       |
| Port Size            | Φ8 mm PU Tubing                             |
| No. of Load Cell     | 1                                           |
| Instrument Dimension | 310mm(L)×370mm(W)×150mm(H)                  |
| Pedestal Size        | 305mm(L)×356mm(W)×325mm(H)                  |
| Power Supply         | AC 220V 50Hz/ AC 110V 60Hz                  |
| Net Weight           | 25Kg                                        |

## Standards

ASTM F2054, ASTM F1140, ISO 11607-1, ISO 11607-2, GB 18454, GB 19741, GB 10440, GB 17447, GB/T 17876, GB/T 10004, GB/T 10005, BB/T 0003, BB/T 0025, QB/T 1871, YBB 00162002, YBB 00252005

## Configuration

**Standard Configuration:** Instrument, Test Frame, Micro-printer

**Optional Parts:** Professional software, Communication cable, Test Accessories (Fixtures for Closed Package Restraining Test, Open Package Unrestrained Test, Fixture for Plastic Pilfer-proof Closure Test, Flexible Tube Test and Aerosol Valve Seal Performance), and Test Device for Blister Pack Seal Performance

Note: 1.The gas supply port of the instrument is  $\Phi 8$  mm PU Tubing;  
2. Customers will need to prepare for gas supply.