

# LTC Leak Tester Control

## PRESSURE CALIBRATOR AND LEAK SIMULATOR



- Full scale pressure: 2 / 6 / 10/ 20 / 40 bar
- Full scale vacuum: -900 mbar
- Resolution: 1 Pa (0.01 mbar)
- Full scale flow: from 50 cm<sup>3</sup>/min to 950 cm<sup>3</sup>/min
- Resolution: up to 0.01 cm<sup>3</sup>/min
- 6 selectable pressure scales
- 3.5" colour TFT LCD display
- Digital thermometer
- Relative humidity sensor

### DESCRIPTION

The instruments of the LTC Leak Tester Control line are designed to control the efficiency of the equipment used for leak testing.

They can also be used as pressure calibrators to verify and certify the equipment's pressure measurements.

Moreover, they can periodically be used as leak simulators to check whether the testing equipment can recognize and REJECT a leak with a given value in cm<sup>3</sup>/min or cm<sup>3</sup>/h on the tested objects.

Through the LTC instruments, the user can document and certify the performances of their testing equipment according to ISO9001.

LTC instruments help the user to choose more easily which testing parameters have to be programmed on the testing instruments.

### OPERATING PRINCIPLE

The LTC instrument is connected in derivation between the testing equipment and the object being tested with the provided quick-coupling Staubli® "T" fitting.

The operator can adjust the leak flow through a manual needle valve or enable/disable the simulated leak by simply pressing a button on the LCD display.

The internal pressure sensor measures the line pressure, the flow sensor measures the actual value of the leak adjusted through the needle valve.

The LTC instrument shows both the test pressure and the leak flow on the display.

By simulating a specified leak, the operator can check the testing equipment's efficiency and the correct programming of test parameters.

By running a testing cycle with the leak engaged, the operator can check whether the equipment is actually able to detect and REJECT the component being tested with the specified leak.

## SPECIFICATIONS

|                          |  |
|--------------------------|--|
| Power supply:            | 5 Vdc / 500 mA max, Micro-USB connector  |
| Rechargeable battery     | Lithium ions, 3.7 V, 1100 mAh  |
| External power supply    | Standard: universal adaptor with USB output, 5 Vdc, 1 A, USB cable   |
| Full scale               | Pressure: 2 / 6 / 10 / 20 / 40 bar; vacuum: -900 mbar<br>Flow: from +/- 50 cm <sup>3</sup> /min up to +/- 950 cm <sup>3</sup> /min |
| Resolution               | Pressure: 1 Pa<br>Flow: up to 0.01 cm <sup>3</sup> /min  |
| Units                    | Pressure: mmH2O, inH2O, mbar, kPa, mmHg, psi<br>Flow: cm <sup>3</sup> /min, cm <sup>3</sup> /h                                     |
| Leak regulation          | Manual needle valve and insertion solenoid valve for the simulated leak  |
| Inner volume             | 2 cm <sup>3</sup> max, plus connecting pipes   |
| Digital thermometer      | Resolution: 0.1 °C; precision +/- 2 °C   |
| Relative humidity sensor | Resolution: 0.1% RH; precision +/- 5% RH   |
| Keyboard                 | Resistive touchscreen, on/off button   |
| Display                  | 3.5" colour TFT LCD display with touchscreen   |
| Data interfaces          | USB Host: data collection and storage (option)   |
| Staubli® connector       | Staubli® RBE03 coupling for the connection to the test instrument.   |
| "T" fitting              | "T" fitting for Ø 6x4 mm piping; central Staubli® RBE03 socket with check valve  |
| Housing                  | ABS, aluminum anodized   |
| Weight                   | 1.5 kg   |
| Transportation           | Carrying case with standard accessories  |

## CALIBRATION SERVICE

Calibration service. Each equipment is accompanied by a calibration report released by Tecna srl.

According to the requirements of ISO9001 standard, calibration must be verified at specified intervals against national or international test samples.

Tecna srl, through our specialized personnel and certified instruments, offers a complete scheduled calibration service.

## STANDARD ACCESSORIES

- Universal adaptor with USB output, 5 Vdc, 1 A
- USB cable with one USB type A connector and one Micro-USB connector
- USB storage with programs to update the application software
- Carrying case
- Staubli® RBE03 coupling
- "T" fitting with Staubli® RBE03 socket

## DIMENSIONS

