

The risk of inconsistent calibration and test, or even instrument damage, is ever present in time critical maintenance operations. Reliance on observed timings and pressure overshoot has been eliminated. Rapid detection of instrument or pneumatic switch problems is achieved. This latest microprocessor based test equipment provides operational benefits immediately.

The Curtiss-Wright Controls Integrated Sensing (CWCIS) Micro Leak, PSLT unit is the most versatile and dependable instrument of it's kind. It is user-friendly, being simple in operation. Its built-in microcontroller enables the unit to function with minimal operator intervention. Readings you can depend on.

- Microprocessor controlled
- Electric pumping and automatic timing
- Pressure control mode for gauge checks
- 2 year calibration
- Minimum operator intervention
- Rugged and portable with ABS carrying case

Developed to primarily generate pitot and static pressures in order to leak test air data equipment, PSLT is also designed for functional checking of aircraft airspeed and altitude switches. The easy-to-read status display indicates set pressure, actual pressure, settling period and leak rate, along with warning flags for pressure achieved, venting, low battery and more. An integrated restrictor automatically vents at a safe rate in the event of power failure. Connection to the aircraft is via a single-output, push on pipe connection, allowing the option of pitot or static system tests.

The Micro Leak Tester provides leading-edge precision, accuracy and reliability in detecting altitude and airspeed gauge, and pneumatic switch leaks in record time thanks to its powerful, self-contained, battery-operated pump. The Micro Leak Tester eliminates laborious manual pumping, oft-times inaccurate timing by stopwatch, or imprecise visually watching for pressure overshoots which could damage costly equipment.

The PSLT comes complete in its own rugged carrying case, which also houses 2 metres of hose and the operator's manual ...more than a test set, an operational necessity.



Dependable Simplicity...

- more portability
- more functionality
- more accuracy
- more ground support confidence

Quality Approvals

CWCIS are committed to complete customer satisfaction in all products and services. International quality approvals include BS EN ISO9001:2000 and Civil Aviation Authority

www.cwcontrols.com

PSLT

PORTABLE PITOT-STATIC LEAK TESTER

PSLT

PORTABLE PITOT-STATIC LEAK TESTER

TYPICAL OUTLINE SPECIFICATION

For further information please contact the sales department as listed below

KEY FEATURES

- A robust, battery-powered, portable instrument
- Electric pump (0-10,000ft in 2.5mins @ controlled rate)
- Simple operation
- Microprocessor controlled
- Automatic timing
- Pressure control mode for gauge checks
- Leading-edge precision, accuracy and reliability
- Eliminates laborious manual pumping
- Easy-to-read status display
- Normal or rapid rate control
- An integrated restrictor automatically vents at a safe rate in the event of power failure
- 2 year calibration
- Battery low indication

SPECIFICATION

Functionality

- Leak testing of altitude and airspeed gauges
- Control of static and pitot pressures for gauge tests
- Testing of pneumatic switches

Status display

- Set pressure
- Actual pressure
- Settling period
- Leak rate
- Warning flags – pressure achieved, battery, venting, etc

Units

- mBar, inHg, knots (pitot)
- mBar, inHg, feet (pitot)
- mBar/min, inHg/min, knots/(pitot leak rate)
- mBar/min, inHg/min, feet/min (static leak rate)

Power fail vent valve

A restrictor automatically vents the system at a safe rate in the event of power failure

Normal rate of change* <47 knots/min (pitot)

Normal rate of change* <2,500 ft/min (static)

*using 0.5 litre external volume

Performance - Pitot

Pitot load – 5 litres

Operating limits of control set point –

0 & 75-430 knot wrt atmosphere

Max rate of change of control – 167 knots/min

mBar/min, in Hg/min, feet/min (static leak rate)

Performance - Static

Static load – 5 litres

Operating limits of control set point –

0 & 10,000ft wrt atmosphere

Max rate of change of control – 4,000ft/min

Leak measurement accuracy – 0.3% of FSO

Dimensions

Size: 192.3 x 110 x 210mm

Weight: 2.3kg maximum

Environmental

Complies with Def Stan 66-31 Cat 4 equipment

Power

AA batteries – dry cell or rechargeable battery pack

Operating temperature – -20°C to 70°C

Accessories

Micro Leak comes as standard with the following:

Rugged ABS carrying case

Battery charger – fast charge / discharge 2 channel

2 spare battery packs – rechargeable nickel metal hydride

2m pneumatic hose

Operation/calibration manual

Curtiss-Wright Controls Integrated Sensing

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Innovation In Motion

**CURTISS
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Integrated Sensing