



DPI 610 Aeronautical

Portable Aircraft Leak Tester

- Altitude and Airspeed leak testing
- Altitude and Airspeed switch testing
- Integral pressure/vacuum pump
- Accuracy to 14ft and 0.7kts
- Large, task oriented display
- RS 232 communications interface



Portable Aircraft Leak Tester



Example display screens for altitude and airspeed.

The DPI 610 Aeronautical version is a low cost yet flexible portable calibrator for precision leak testing of aircraft pitot static systems.

Configured as a single channel unit for testing either altitude or airspeed parameters, it is fully self-contained with manual pressure generation and venting facilities. Scaling is provided in aeronautical units and the instrument also includes switch tests and other functions.

The pneumatics enable a maximum rate of climb of $\pm 6,000$ ft/min when used with a 5m length x 6mm bore hose at altitudes below 15,000ft. An AN4 pressure fitting is provided and an integral vent valve for restoring ambient ground pressure conditions.

STANDARD SPECIFICATIONS

Aeronautical Ranges

Altitude: -3,000 to 50,000ft
Airspeed: 0 to 600 knots

Aeronautical Scales

Altitude: feet and metres
Airspeed: knots, km/hr and mph

Leak Test Scales

Altitude: ft/min, m/sec, hm/min
Airspeed: knots/min, km/hr, mph/min

Pressure/Vacuum Source

An integral pneumatic hand pump and volume adjuster are supplied for generation and fine setting of pressure or vacuum. Release valve and ground valve supplied for lowering values to atmospheric. Rates limited to $\pm 6,000$ ft/min.

Temperature Ranges

Operating: -10° to 50°C
Calibrated: -10° to 40°C

Precision - Airspeed

Over the range 0 to 600 knots:
200kts: ± 3 kts
400kts: ± 0.7 kts

Precision - Altitude

Over the range -3,000 to 50,000 feet:
Sea Level: ± 14 ft
10,000ft: ± 18 ft
30,000ft: ± 36 ft

Precision includes linearity, hysteresis, repeatability, 12 months measurement stability.

General

For further general specification and functionality details please refer to the standard DPI 610/615 Series Portable Calibrator datasheet.

OPTIONS

(A) Rechargeable batteries and charger

A rechargeable Ni-cad battery pack to replace the standard dry cells. Supplied with a universal input charger/battery eliminator which allows the instrument to be used whilst charging.

CALIBRATION STANDARDS

Instruments manufactured by Druck are calibrated against precision calibration equipment traceable to International Standards.

RELATED PRODUCTS

Druck manufacture a wide range of flight approved pressure sensors and ground test instrumentation for the aeronautical industry. Shown below are some of the products currently available.



ORDERING INFORMATION

Please state the following:

1. DPI 610 Aeronautical.
2. Altitude and Airspeed ranges.
3. Option (A) (if required).

Continuing development sometimes necessitates specification changes without notice.