



DPI 610 Aero

Portable Pressure Calibrator/Indicator - Product Note

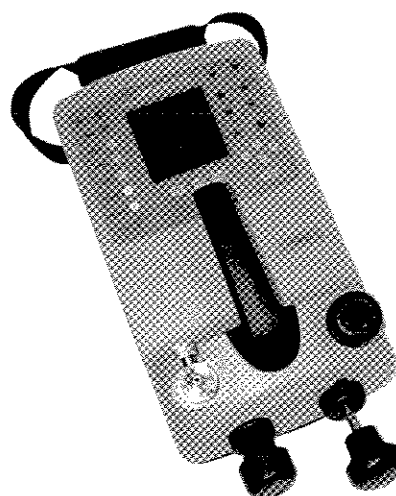
For aircraft leak testing of pitot static systems the DPI 610 Aero Version is a low cost yet flexible test instrument.

Configured as a single channel unit for testing either altitude or airspeed parameters, the DPI 610 Aero provides manual pressure generation and venting facilities. Scaling is provided in aeronautical units for both altitude and airspeed and functions such as leak test and switch tests are addressed directly.

The pneumatics enable a maximum rate of climb of $\pm 3,000$ ft/min when used with a 15 ft. length x 0.25 in. bore hose at altitudes below 15,000 ft. An AN4 pressure fitting is provided with an integral vent valve for ground pressure.

Accuracy of the pressure measurement is $\pm 0.025\%$ FS, equivalent to a precision of 0.015 inHg with the integral 60 inHg absolute sensor.

The standard DPI 610 capabilities are enhanced with a specific AERO TASK which provides digital display of the test parameters.



Aero ranges

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

Aero scales

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

Leak test scales

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

Aero accuracies*

Altitude 14 ft @ sea level
18 ft @ 10,000 ft
36 ft @ 30,000 ft
Airspeed 3 kts @ 200 kts
0.7 kts @ 400 kts

* Better after zero performed

Pneumatic hand pump and release volume adjuster supplied for pressure or vacuum source and fine setting.

Release valve and ground valve supplied for lowering values to atmospheric. Rates limited to $\pm 3,000$ ft/min.

Continuing development sometimes necessitates specification changes without notice.

Druck is an ISO 9001 registered company.

POD = 1002.85	
13353	
ALTITUDE	ft
TIMING 55	
STOP	

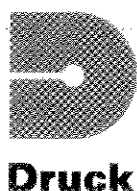
ALTITUDE LEAK TEST DISPLAYS

ALTITUDE	
13304	
ft	
WAIT	60 secs
DURATION	60 secs
START ALT	13354 ft
STOP ALT	13322 ft
ALT CHANGE	-32 ft
LEAK RATE	-32 ft
CHANGE VALUE	RUN

SWITCH TEST	
CONTACT STATE	
150	
AIRSPEED	kts
RUN	CHANGE UNITS

AIRSPEED SWITCH TEST DISPLAYS

SWITCH TEST	
CONTACT STATE	
CLOSED AT	550 kts
OPENED AT	550 kts
HYSTERESIS	25 kts
325	
AIRSPEED	kts
STOP	MANUAL OPERATION



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