

Pitot Static Leak Tester

DPI610

The Barfield DPI610 Aero is an inexpensive, portable, self-contained single channel leak tester for aircraft pitot and static systems. The unit is configured as a single channel unit for testing either altitude or airspeed parameters. Scaling is provided in aeronautical units for both altitude and airspeed and functions such as leak test and switch tests are addressed directly.

A single pressure/vacuum selectable hand pump is provided for supplying the necessary pressure (no electric or external pressure sources required) needed for on-board leak testing. The test sets pneumatics are so arranged that the units maximum rate of climb is ± 3000 ft./min. when used with a recommended hose of 15 ft length x 0.25 in inside diameter hose at altitudes below 15k ft.



DPI610 Specifications

Accuracy $\pm 0.025\%$ full scale

- ± 14 ft @ sea level
- ± 18 ft @ 10K ft
- ± 25 ft @ 20K ft
- ± 36 ft @ 30K ft
- ± 3 kts @ 50 kts*
- ± 1.5 kts @ 100 kts
- ± 0.7 kts @ 200 kts
- ± 0.3 kts @ 400 kts

* Improved after a zero correction carried out

Range

Altitude: -3k to + 50K ft

Airspeed: 0 to 600 kts

Aeronautical Units of Measure

Altitude: Feet, meters

Airspeed: knots, km/hr and mph

Leak Test Scales

Altitude: Feet/min, meters/min, m/sec, hm/min

Airspeed: Knots/min, km/hr/min, mph/min

Features

- > Ideal for flightline leak checks and troubleshooting
- > Performs precision Pitot-Static leak tests
- > Fully portable, self-contained
(No electric or external pressure sources required)
- > Rechargeable Battery Power
- > Pneumatic hand pumps and release volume adjuster for value setting (Press. Or Vac.)
- > Release valve and ground valve for lowering values to atmospheric. Rates limited to $\pm 3k$ ft/min

DPI610 Dimensions

	in.	cm.
Height	5.5	13.97
Width	6.7	17.02
Depth	11.8	29.97
	lbs.	kg
Weight	6.6	2.99

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Pitot Static Test Set

1811D

The Barfield 1811D is an inexpensive, portable, self-contained field tester. It is ideal for leak testing aircraft pitot and static systems or on-board testing of altimeters and airspeed indicators. The tester uses two analog or digital instruments (Altimeter and Airspeed) to perform aircraft leak tests or instrument calibration checks. All 1811 series testers are configured with hand pumps and external pressure ports for supplying the necessary pressure and vacuum needed for on-board testing. The Barfield 1811 series pitot/static testers are very practical for new facilities or those with a limited budget. The unit includes two 25-ft. hoses, a pitot mast adapter, and a 2423F static port adapter kit.

The following is a list of available configurations.

1811D405 (60-420kts, 35k ft.) analog instruments
 1811D605 (20-250kts, 35k ft.) analog instruments
 1811D403 (60-420kts, 50k ft.) analog instruments
 1811D603 (20-250kts, 50k ft.) analog instruments
 1811DA0A (20-650kts, 55k ft.) digital instruments

Digital instruments do not require correction cards.

1811D Accessories

115-00056 Hose Kit (2 ea. - 25 ft.) incl. Pitot Adapt.
 (Included with new testers)
 115-00218 Hose Kit (2 ea. - 40 ft.) incl. Pitot Adapt.
 115-00057 Pitot Tube Adapter Assy. (1/2" inner dia.)
 2423F Static Port Adapter Kit



Features

- > Ideal for flightline calibration checks and troubleshooting
- > Performs precision Pitot-Static leak tests
- > Two-instrument combination with optional ranges
- > Correction cards for all analog instruments
- > Fully portable and self-contained
(No electric or external pressure sources needed)
- > Lightweight plastic case for portability
- > Digital instruments contain four indications
(altitude, airspeed, vertical speed and mach)
- > 1-year calibration cycle for digital 1811's

1811D Dimensions

	in.	cm.
Height	11.3	28.7
Width	18.0	45.7
Depth	12.0	30.5
	lbs.	kg
Weight	18	8.2

For more information on digital instruments please see our DAL55/DAS650.

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Pitot Static Test Set

1811GA

The Barfield 1811GA testers are portable, self-contained units, used for testing and calibrating aircraft pitot-static systems. The tester has three-instrument capability for analog (Altimeter, Vertical Speed, and Airspeed) units to perform aircraft leak tests or instrument calibrations. All 1811 series testers are configured with hand pumps and external pressure ports for supplying the necessary pressure and vacuum needed for on-board testing and calibration. The Barfield 1811 series of Air Data testers are practical for new facilities or for those with a limited budget. The unit includes two 25-ft hoses, a pitot mast adapter, a 2423F static port adapter kit and a pitot-static system cd-rom.

The following is a list of common configurations.

1811GA425 (60-420kts, 2k ft/min, 35k ft.) analog
 1811GA435 (60-420kts, 3k ft/min, 35k ft.) analog
 1811GA445 (60-420kts, 4k ft/min, 35k ft.) analog
 1811GA465 (60-420kts, 6k ft/min, 35k ft.) analog
 1811GA625 (20-250kts, 2k ft/min, 35k ft.) analog
 1811GA635 (20-250kts, 3k ft/min, 35k ft.) analog
 1811GA645 (20-250kts, 4k ft/min, 35k ft.) analog
 1811GA665 (20-250kts, 6k ft/min, 35k ft.) analog
 1811GA423 (60-420kts, 2k ft/min, 50k ft.) analog
 1811GA433 (60-420kts, 3k ft/min, 50k ft.) analog
 1811GA443 (60-420kts, 4k ft/min, 50k ft.) analog
 1811GA463 (60-420kts, 6k ft/min, 50k ft.) analog
 1811GAAOA (20-650kts, 6k ft/min, 55k ft.) digital

Digital instruments do not require correction cards.

1811GA Accessories

115-00056 Hose Kit (2 ea. - 25 ft.) incl. Pitot Adapt.
 (Included with new testers)
 115-00218 Hose Kit (2 ea. - 40 ft.) incl. Pitot Adapt.
 115-00057 Pitot Tube Adapter Assy. (1/2" inner dia.)
 2423F Static Port Adapter Kit



Features

- > Compact fiberglass case allows unit to fit in tight quarters
- > Performs on-board instrument calibration checks
- > Performs precision Pitot-Static leak tests
- > Three-instrument capability for analog units with optional ranges
- > Correction cards for all analog instruments
- > Fully portable, self-contained
 (No electric or external pressure sources required)
- > Vacuum & pressure hand pumps installed
- > Digital instruments contain four indications
 (altitude, airspeed, vertical speed and mach)
- > 1-year calibration cycle for digital 1811's

1811GA Dimensions

	in.	cm.
Height	9.76	24.8
Width	15.4	39.1
Depth	14.9	37.8
	lbs.	kg
Weight	24	10.9

For more information on digital instruments please see our DALT55/DAS650.

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Pitot Static Test Set

1811HA

The Barfield 1811HA testers are portable, self-contained units, used for testing and calibrating aircraft pitot-static systems. The tester has three-instrument capability for analog (Altimeter, Vertical Speed, and Airspeed) units to perform aircraft leak tests or instrument calibrations. All 1811 series testers are configured with hand pumps and external pressure ports for supplying the necessary pressure and vacuum needed for on-board testing and calibration. 1811HA models come with an additional internal electric pump. The Barfield 1811 series of Air Data testers are practical for new facilities or for those with a limited budget. The unit includes two 25-ft hoses, a pitot mast adapter, a 2423F static port adapter kit and a pitot-static system cd-rom.

The following is a list of common configurations.

1811HA425 (60-420kts, 2k ft/min, 35k ft.) analog
 1811HA435 (60-420kts, 3k ft/min, 35k ft.) analog
 1811HA445 (60-420kts, 4k ft/min, 35k ft.) analog
 1811HA465 (60-420kts, 6k ft/min, 35k ft.) analog
 1811HA625 (20-250kts, 2k ft/min, 35k ft.) analog
 1811HA635 (20-250kts, 3k ft/min, 35k ft.) analog
 1811HA645 (20-250kts, 4k ft/min, 35k ft.) analog
 1811HA665 (20-250kts, 6k ft/min, 35k ft.) analog
 1811HA423 (60-420kts, 2k ft/min, 50k ft.) analog
 1811HA433 (60-420kts, 3k ft/min, 50k ft.) analog
 1811HA443 (60-420kts, 4k ft/min, 50k ft.) analog
 1811HA463 (60-420kts, 6k ft/min, 50k ft.) analog
 1811HAAOA (20-650kts, 6k ft/min, 55k ft.) digital

Digital instruments do not require correction cards.

1811HA Accessories

115-00056 Hose Kit (2 ea. - 25 ft.) incl. Pitot Adapt.
(Included with new testers)
 115-00218 Hose Kit (2 ea. - 40 ft.) incl. Pitot Adapt.
 115-00057 Pitot Tube Adapter Assy. (1/2" inner dia.)
 2423F Static Port Adapter Kit

For more information on digital instruments please see our DALT55/DAS650.



Features

- > Compact fiberglass case allows unit to fit in tight quarters
- > Performs on-board instrument calibration checks
- > Performs precision Pitot-Static leak tests
- > Three-instrument capability for analog units with optional ranges
- > Correction cards for all analog instruments
- > Operates from 115/230 VAC 50-400 Hz
- > Fully portable, self-contained
(No electric or external pressure sources required)
- > Vacuum & pressure hand pumps installed
- > Digital instruments contain four indications (altitude, airspeed, vertical speed and mach)
- > 1-year calibration cycle for digital 1811's

1811HA Dimensions

	in.	cm.
Height	9.76	24.8
Width	15.4	39.1
Depth	14.9	37.8
	lbs.	kg
Weight	30	13.6

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