

## Ground Support Test Equipment

### 1811NG Digital Pitot Static Test Set Non RVSM



Thanks to highly qualified engineers and technicians, with over 65 years of expertise, Barfield has developed a new product category called the Imperium series. Imperium, a Latin word which in a broad sense, translates as 'power to command' represents new Barfield products containing an automated pressure controller or automated testing features. The latest product being introduced is the fully automated 1811NG which is bringing the power of an automated Air Data Test Set (ADTS) to an affordable price. The 1811NG performs altimeter and static systems tests and inspections directly supporting General Aviation, Helicopter, UAV, Non-RVSM Regional and Corporate aircraft. Critical components used in the 1811NG have a well-established history of proven flight line reliability & accuracy - including case, pumps, valves, and pressure transducers. Barfield introduced an innovative feature to the DPS1000 in 2013, wireless communication for display and control using the latest Wi-Fi technology. This wireless WIFI technology is being carried through to the next imperium series product the 1811NG.

#### 1811NG features include:

- High accuracy – Non-RVSM compliant
- Fully automatic control
- 7" Color Graphic Touch Screen
  - LCD sunlight readable
  - Usable with gloves in cold climate
  - Versatility to update user interfaces & features
- Go to ground function
- Auto leak test custom profiles
- Programmable limit protections
- Altitude correction
- Altitude compensation for leak testing
- Durable wheels & extendable handle on case
- Limited 2 Year Warranty

#### Benefits of 1811 NG:

- Wireless Remote operation with Tablet Application
- Proven accurate and stable Transducer technology
- Cost effective for General Aviation, Helicopter, UAV, Non-RVSM Regional and Corporate aircraft support.
- User friendly interface
- Increased Labor efficiency
- Product durability / reliability
- Flexible features and design updates



# Ground Support Test Equipment

## 1811NG Digital Pitot Static Test Set

### Non RVSM

#### Accuracy (Preliminary)

Accuracy		Altitude (ft)	Accuracy	Airspeed (kts)	Accuracy
MACH	±0.005 @ 0.10 decreasing to ±0.001 @ 1.0 and above	-1800	±7ft	25	±2.0 kts
EPR	± 1 Count of Display	10k	±10ft	50	±0.5 kts
ROC	± 2% of Value	20k	±14ft	100	±0.5 kts
Ps Sensor	±0.2% FS Typical, ±0.40% Max	30k	±20ft	200	±0.3 kts
Qc Sensor	± 0.002 inHg rising to ± 0.020 @ FS	40k	±30ft	500	±0.1 kts
		50k	±48ft		

#### Specifications

Stability (Calibration)	Dimensions	AC Power Requirements
Drift per 12 Months 0.025% of Range/Year (Max)	in. cm.	85-264 VAC; 50-60 Hz
Temperature Range	Height: 14.8 37.6	Auto selection; 200VA
Calibrated: 0°C to +50°C	Width: 22.2 56.4	Ps, Pneumatic Capacity (6000 ft/min)
Operational: 0°C to +50°C	Depth: 9.0 22.9	125 cu. in. 2 Liters
Storage: -25°C to +70°C	lbs. kg.	Pt, Pneumatic Capacity (300 ft/min)
Humidity	Weight 33 15	75 cu. in. 1.3 Liters
0-95% Non-Condensing		

#### Key Facts

- Worldwide availability of products through distributors in different regions of the world
- ISO 9001: 2000 and AS 9100-C Quality Standard
- Barfield manufactured products calibrated to NIST standards
- Barfield's DFQ40K fuel quantity test set was the first of the Imperium series released in 2010



For any questions, contact our distributor, Aero Express, Inc.  
Aero Express is an Authorized Distributor of Barfield.  
[www.aeroexpress.com](http://www.aeroexpress.com) 816-246-4500 [sales@aeroexpress.com](mailto:sales@aeroexpress.com)

