BARFIELD

Ground Support Test Equipment
DPS501 NG – RVSM Digital Pitot Static Test Set

DPS501NG

Innovative. Rugged. Reliable.

The DPS501 is Barfield's latest high accuracy air data management system test set. The DPS501 NG is capable of controlling and measuring Altitude and Airspeed pressures to the highest degree of accuracy. The control and measurement range of the test system meets or exceeds most requirements for commercial and military test applications. In addition, the DPS501 NG complies with requirements for RVSM.

The DPS501 NG software provides a familiar and intuitive graphical user interface. Modes of Operation are easily selected through tabs located along the top of the screen. The operator can easily switch between modes while testing without affecting operation.The calibrator measures and records readings, while displaying data as a table or graphically. All information is stored directly on the calibrator and reports can be printed. The DPS501 NG can be operated remotely using the RS-232 (serial) port on the rear panel. The operating platform allows the system to be upgraded for future test applications through software upgrades, standalone installer packages or customized software applications.
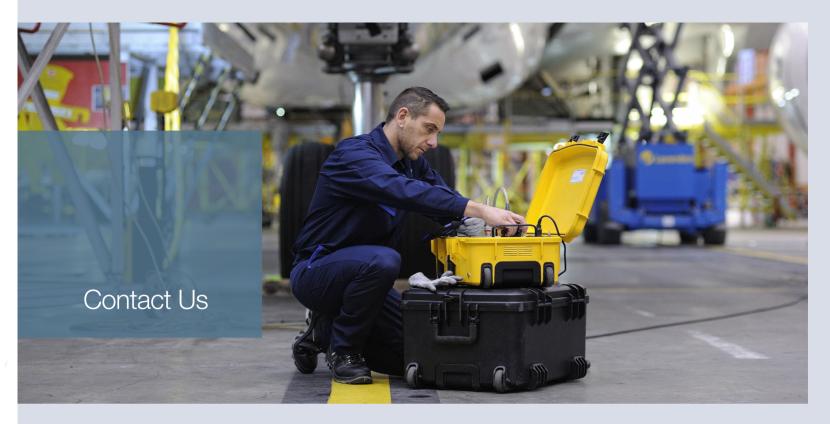

RVSM Compliant

DPS501 NG

Test Sets You Can Rely On

- New brilliant 10.4-inch LED backlit LCD touchscreen display.

- An on-screen keyboard appears automatically when operator input is needed.

- Uses 2 digiquartz transducers which provide unmatched performance.

- Can hold accuracy for a period of one (1) year.

- A 5-wire resistive touchscreen allows the DPS501 NG to be controlled directly from the front panel.

Features

- High accuracy - RVSM compliant
- Fully Automated control with Test Programs
- 8.4" LED backlit LCD Touchscreen
- Large button LED backlit color coded keypad
- Usable with gloves in cold climate
- Ruggedized case with retractable handle & wheels
- Air Data Manifold with 4 Pitot & 4 Static outputs
- Selectable Aircraft Profiles with Limits
- Go to Ground function - controlled venting
- Robust pressure-vacuum pump for large volumes
- Touchscreen and keypad usable with gloves
- Durable wheels & extendable handle on case
- Limited 1 Year Warranty

Contact Us

Altitude (Ps) Specifications

Altitude (Ps) Range	-10,000 to 109,985 ft
Static (Ps) Sensor	0.350 to 38.000 inHg
Accuracy	± 0.003 inHg or 0.008% FS
Altitude Rate	0 to 50,000 ft/min
Rate Accuracy	±10 ft/min or ±1% of setting
Resolution	1 ft, 0.01 mbar, 0.0001 inHg (Ps), 0.01 mmHg
Units	feet, meters, inHg, mmHg, mbar, hPa, PSIA

Airspeed (Pt) Specifications

Airspeed (Pt) Range	0 to 1,000 knots (ER)
Pitot (Pt) Sensor	0.350 to 110.000 inHg
Accuracy	± 0.004 inHg or 0.008% FS
Airspeed Rate	0 to 800 kts/min
Rate Accuracy	±1% of setting or±10 kts/min
Resolution	0.1 kt, 0.01 mbar, 0.0001 inHg (Pt), 0.01 mmHg
Units	IAS/CAS, kts, Mach, inHg, mmHg, mbar, EPR, hPa, PSIA, kph

Features

Display	10.4-inch LED backlit Touchscreen LCD
Interfaces	RS-232 / USB (x2) / RJ-45 Ethernet / IEEE-488 (optional)
Altitude (Static) Port	37° Flare AN6 bulkhead (rear panel)
Airspeed (Pitot) Port	Standard: Male JIC 37° -4 AN Stainless Steel bulkhead
Calibration Cycle	One (1) year
Power	90-265 VAC, 45 - 440 Hz, 1 Phase
Dimension / Weight	19 x 10.5 x 20 in (19-inch rackmount) / 38 lbs (17.24 kg)