



Ground Support Test Equipment DPS500NG – RVSM Digital Pitot Static Test Set



DPS500NG

Innovative. Rugged. Reliable.

The DPS500NG is Barfield's latest fully automated, intuitive RVSM compliant air data test set. The DPS500NG is a portable, high precision, dual channel air data pressure test system. This tester is designed to calibrate, test and troubleshoot air data instrumentation and aircraft pitot-static systems. The test set has been designed with functional and reliability features highly suited to withstand the harsh environmental and demanding conditions of the flight line environment. The test set is designed for testing a wide range of commercial and military aircraft, both rotary and fixed wing. Designed with both hardware and software safety features, the DPS500NG provides maximum protection for the test set and the Unit Under Test (UUT). These features include over-range, overlimit, and over-pressurization protection, micro-porous filters, pressure relief valves, UUT isolation in the event of a power failure and more



DPS500NG

Test Sets you can Rely On

- New 7.0" Touchscreen Handheld Remote Control Unit (RCU)
- Wired remote control connection with 25 and 50 foot standard lengths available.
- Simplified intuitive remote application mimics the main unit display.
- The remote control unit provides redundancy in the event the main unit becomes unresponsive or inoperable
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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

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Contact Us

Altitude (Ps) Specifications

Altitude (Ps) Range ¹	-2,000 to 65,000 ft		
Static (Ps) Sensor	0.350 to 38.000 inHg		
Accuracy	±3 ft @ 0 ft ±7 ft @ 30,000 ft ±36 ft @ 65,000 ft	<i>RVSM Compliant 0.0035 inHg or better</i>	
Altitude Rate ²	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 ¹	0 to 650 knots		
Pitot (Pt) Sensor	0.350 to 110.000 inHg		
Accuracy	±0.5 kts @ 50 knots ±0.1 kts @ 550 knots ±0.05 kts @ 1,000 knots		
Airspeed Rate ²	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	8.4-inch LED backlit Touchscreen LCD
Interfaces	External: Remote, Service / Internal: RS-232, USB
Altitude (Static) Port	Standard: Male JIC 37° -6 AN Stainless Steel bulkhead
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
Dimensions	25.4 x 20.0 x 14.5 in (645.2 x 508 x 368.3 mm)

1) Standard ranges listed. Higher ranges may be available upon request.

2) Altitude and Airspeed Slew Rates are load dependent. Slew rates and load test requirements may vary based on volume of the DUT.

For any question and/or more specific information, please feel free to contact us:

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