

DPS450 DIGITAL AIR DATA

[MEETS RVSM ACCURACY REQUIREMENTS]

GENERAL INFORMATION

The new DPS450 completes an entire line of Barfield Digital Pitot-Static/Air Data testers. Designed to minimize aircraft downtime, the DPS450 is the newest and one of the lowest cost fully automated Air Data Testers meeting the high accuracy demands of *Reduced Vertical Separation Minimum* (RVSM) specifications on the market.



All functions of the tester are fully automatic and require no manual sequencing of valves or regulators. The DPS450 has fully automatic control by means of the menu-driven high contrast electroluminescent display and tactile membrane keypad. The automated controller automatically generates and continuously maintains the input altitude, airspeed or VSI values. The DPS450 precisely maintains the input value (Ps, PT, Airspeed, Alt, etc.) overcoming any pressure values caused by a leaky system. A precision vibrating element sensor on the static channel provides high accuracy altitude measurement and simulation. This high accuracy and stability qualifies the DPS450 for certifying aircraft for RVSM operation and increases the calibration interval from 30 days to once every year.

The sophisticated yet user friendly display is fully programmable for a range of test requirements. It can be configured, with limits and referred units of measurement, for individual aircraft types. The level of information displayed can be determined by the operator to suit the particular task at hand.

In addition to the standard pitot-static functions of the DPS450, there are many additional advanced features that include: automatic go-to-ground, leak test mode and device under test protection amongst others. This enables the operator to undertake flightline testing accurately and efficiently, without compromising safety standards.



To complement the industry's leading Pitot-Static/Air Data testers, Aero Express also offers the NAV-AIDS product line of custom Pitot and Static adapters for most Military, Helicopter, General Aviation Aircraft, Corporate Jets, and Airliners.



"Your Test Equipment Solution"

FEATURES:

- A Handheld Remote Control (Option)
- Push button data input
- A database capable of saving the limit data of different aircraft and stored in a battery backed memory
- GO TO GROUND feature automatically and safely depressurizes both systems to ambient pressure.
- Automatic Power Failure Protection
- Compact and lightweight for quick and easy portability. Even fits into commercial aircraft overhead baggage compartments.
- Aircraft limit protection
- Aircraft altitude offset feature

MEASUREMENT DATA:

RVSM ACCURACY
 ALTITUDE UP TO 55K FT
 AIRSPEED UP TO 650 KITS
 VERTICAL SPEED TO 6000 FT/MIN
 VERTICAL SPEED ABOVE 6000 FT/MIN
 TRANSDUCERS

CONTROL FEATURES

LEAK MEASURE FACILITY
 FULL AUTOMATIC MICROPROCESSOR CONTROL
 KEYBOARD DATA ENTRY
 CONTROLLED CLIMB/DECENT RATE
 AUTOMATIC "GO TO GROUND" FUNCTION
 AUTO INTERVENTION (FOR EXCESSIVE LEAKS)
 REMOTE CONTROL (OPTIONAL)
 MANUALLY OPERATED LID PS/PT MANIFOLD

DIMENSIONS

| | In. | cm. | lbs. | kg |
|--------|------|------|-----------|----|
| Height | 14.0 | 35.5 | Weight 33 | 15 |
| Width | 20.5 | 52.0 | | |
| Depth | 10.4 | 26.5 | | |



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