

DPS400 DIGITAL AIR DATA

[MEETS RVSM ACCURACY REQUIREMENTS]

GENERAL INFORMATION

The DPS400 is a microprocessor based unit using the latest in transducer technology. These transducers combined with manually controlled ultra sensitive differential regulators enable a technician to precisely control the altitude and airspeed without the need for correction cards. These true differential regulators enable a technician to *independently control the airspeed and altitude and remove the need for a crossbleed valve.*



The accuracy and stability qualifies the DPS400 for use on aircraft being certified for *Reduced Vertical Separation Minimum* (RVSM) operation and increases the calibration interval from 30 days to once a year. The simple menu driven digital display calculates and displays Altitude, Vertical Speed, Airspeed, EPR and other measurements in various units of measure, including: Ft, M, Kts, Km/hr, Mach, Ft/min, M/min, EPR (Pt/Ps), inHg, mb, and psia. Software containing a programmable protection limit feature has been incorporated into the DPS400 to protect the aircraft instruments from damage due to negative airspeed and over pressurization conditions. Limit protection is provided by computer actuated solenoid valves that safeguard aircraft altitude, airspeed, rate of climb/decent and mach instruments. The tester also includes internal pumps that can produce a pressure and vacuum suitable for simulating 55K Ft, 650 Knots, and 6000 Ft/min conditions in wide body aircraft.



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



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"Your Test Equipment Solution"

FEATURES:

- Transducer Technology providing the highest accuracy and best long-term stability available for line maintenance equipment
- True differential regulators used for independent control of airspeed and altitude
- Menu-driven operator interface proving protection of instruments under test with programmable limits on the following parameters: Altitude, Airspeed, Rate of Climb and Mach
- Leak testing mode displays leak rates in Ft/Min, Knots/Min and Metric equivalent units
- Quicker during dual channel type test
- Aircraft limit protection

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

MANUAL NEEDLE VALVE CONTROL

MANUAL DIFFERENTIAL REGULATORS

SIMI-AUTOMATIC MICROPROCESSOR CONTROL

LEAK MEASURE FACILITY

DPS400 ACCESSORIES

- 115-00339 Hose Kit (2 ea. - 25 Ft.) incl. Pitot Adapt. (Included with new testers)
- 115-00057 Pitot Tube Adapter Assy. (1/2" inner Dia.)
- 2423F Static Port AdaKitpter
- B-QC4-B-4ANK5 Static (Blue) Hose Quick Connector
- B-QC4-B-4ANK2 Pitot (Org.) Hose Quick Connector
- B-QC4-D1-400-K5 Static (Blue) Panel Quick Connector
- B-QC4-D1-400-K2 Pitot (Org.) Panel Quick Connector

DIMENSIONS

	In.	cm.		lbs.	kg
Height	11.3	28.7	Weight	65.0	30.0
Width	24.0	61.0			
Depth	16.0	40.6			