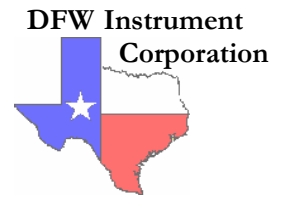


# ***DPST-8000M Air Data Test Set*** ***“Exceeds RVSM High Accuracy Standards”***

*FAA Certified Repair Station # DZMR112L*  
*Cage Code # 3PTA2*



## **General Information**

The Model DPST-8000 Air Data Test Set is a precision test set with dual channel pressure controller, designed to provide regulated total (PT) pressure and static (PS) pressure outputs to simulate Altitude, Airspeed and Vertical Speed parameters. The test set can also be used in a laboratory environments to calibrate Altimeters, Airspeeds and ADC's in maintenance shops or in harsh hangar environments. The test set is compact, light weight and has a removable storage lid, which can fit in the overhead compartment on a commercial airliner.

## **Standard Features**

- Certified to perform Reduced Vertical Separations Minimum on fixed or rotary wing aircrafts.
- Precision microprocessor based with Honeywell sensors, accuracy to 0.001% of full range.
- Sun-light readable color TFT display showing real instrument EFD presentation.
- The simple pop-up screens display the 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. All readings are up-dated every 2 tenths of a second.
- Automatic pitot and static leak rate modes automatically perform calculations & system failures.
- Precision metering valves with protection shut off seats for maximum control rates.
- Ports have self sealing quick connections, which are color coated and keyed to protect the aircraft and test equipment from pressure loss or incorrect system connections.
- Internal pumps produce pressure and vacuum, which fill holding tanks for quick start ups and high performance rates. Exceeds 60,000 ft. of altitude, 15,000 ft./min VSI rate, and 650 knots of airspeed.
- Water resistance and temperature corrected for extreme flightline conditions.
- Smart AC power supply for safe flight line usage input voltages 85 to 264 VAC / 47 to 440 Hz
- SkyDyne case constructed meets all applicable requirements of MIL-STD-810 removable lid, with fixed storage bag and watertight standards to MIL-108.
- Test set is equipped with quick connect fittings, 2 hoses (20 ft/ea) and a terminal cable (15 ft).
- Calibration meets or exceeds the published specifications, which are traceable to the National Institute Standards and Technology “N.I.S.T.”.

**Dimensions**  
**19” x 12” x 11.5”**  
**27.5 Lbs**

REV 11/06/05

**Digital Manual RVSM Pitot / Static Air Data Test Set  
DPST-8000M Performance Specifications**

**Absolute Pressure Performance**

Static Pressure:  
Range: 0.3 to 40 inHg abs.  
Accuracy: +/- 0.001 inHg  
Repeatability: +/- 0.0008 inHg  
Drift: +/- 0.004 inHg per year max.  
Overpressure: 300 %FS without damage  
Pitot Pressure:  
Range: 0.8 to 80 inHg abs.  
Accuracy: +/- 0.001 inHg  
Repeatability: +/- 0.002 +/- 100 ppm/year  
Drift: +/- 0.01 inHg per year max.  
Overpressure: 300 %FS without damage

**Altitude Performance**

Range: -2000 ft. to 55,000 ft.  
Resolution: 1 ft.  
Accuracy: ±2 ft. @ 0 ft.  
±5 ft. @ 35,000 ft.  
±12 ft. @ 55,000 ft.

**Rate of Climb Performance**

Range: 100 ft./min. to 20,000 ft./min.  
Resolution: 1 ft./min.  
Accuracy: ±1 % of rate with a min. of 10 ft./min.

**Airspeed Performance**

Range: 10 to 600 Knots  
Resolution: 0.5 Knots  
Accuracy: ±0.5 Knots @ 20 knots  
±0.05 Knots @ 600 knots

**Mach Performance**

Range: 0.0 Mach to 5.0 Mach  
Resolution: 0.001 Mach  
Accuracy: 0.01 Mach above 0.1 Mach  
for Ps = 29.921 InHg.

**EPR Performance**

Range: 0.1 to 3.0 (Ps @ 30inHg)  
Resolution: 0.001  
Accuracy: 0.05 %FS PSI

**Pressure Medium**

Dry Air

**Pressure Connections**

Safety Seal Quick Disconnects (2 EA. )

**Display Update Rate**

Once Every 2 Tenths per. Second

**Outputs**

USB Port / Data Output / RS-232

**Sensors**

Honeywell Certified Sensors (NIST Traceable)

**Power Requirement**

Input Range: 85 - 264 VAC  
Frequency Range: 47 Thru 440 Hz

**Environmental Specs**

Temp. Operating: 0<sup>0</sup> C to 50<sup>0</sup> C  
Temp. Storage: -25<sup>0</sup> C to + 60<sup>0</sup> C  
Humidity: 0 to 95% RH

**Warranty & Calibration**

Warranty: 1 year (parts & labor)  
Calibration: Up to 1 year  
*(yearly calibration suggested)*

**RVSM Certification**

Calibration / Trace to NIST  
Exceeds FAA Accuracy Compliance Spec's.

**Physical Dimensions**

19" L x 12" W x 11.5"H (Rack Mount MOD R)

**Weight**

27.5 Lbs.

**Case**

Skydyne Case

**ORDERING INFORMATION**

**Mfg. Part Number: DPST-8000M**

Lab 19" Rack Mount .....Mod R

**Accessory Include:** Protection Quick Release Fittings, Hoses and operation manual.

