

# DPST-9200A Automated Air Data Test Set

## “Exceeds RVSM High Accuracy Standards”



FAA Certified Repair Station # DZMR112L  
Cage Code # 3PTA2

### General Information

The Model DPST-9200A Air Data Test Set is a precision flight line fully Automatic dual channel pressure controller, designed to provide regulated total (PT) pressure and static (PS) pressure outputs to simulate altitudes and airspeed parameters. The test set can also be used in a laboratory environment to calibrate air data test sets in maintenance shops or hangar. A handheld remote terminal provides the operator full control of test set functions while observing aircraft instruments such as Altimeters, Airspeeds / Mach Indicators and Rate of Climb Indicators.

### Standard Features

- Certified to perform Reduced Vertical Separations Minimum or Standard FAR 91.411 Part 43 App E.
- Precision microprocessor based with Honeywell sensors, accuracy to 0.001% of full range.
- Calibration meets or exceeds the published specifications, which are traceable to the N.I.S.T.
- The handheld remote terminal is sun-light readable color TFT display showing real instrument displays.
- Terminal specifications:
  - User-friendly keypad interface.
  - Full-function Touch Screen.
  - LED function indicators.
  - Humidity, MIL-STD-810F, method 507.4.
  - Water, IP67, sealed against immersion, MIL-STD-810F, Method 512.4, P-1.
- Profiles feature allows standard setpoints of an altimeter or airspeed check to be downloaded from a computer. Up to 50+ profiles can be stored in the unit.
- Altitude, Airspeed, Mach and VSI readings are up-dated every 2 tenths of a second.
- Automatic pitot and static leak rate functions automatically calculate leak rate values.
- “Go To Ground” automatically and safely depressurizes Pitot & Static pressure to ambient.
- Protection for instruments under test, includes a power failure protection feature, which in the event of an interruption to the electrical supply, locks the pneumatic system and allows safe depressurization to ambient ground conditions automatically without operator assistance.
- Hoses have self-sealing quick connections to protect aircraft from pressure loss.
- Vacuum and Pressure pumps are self contained with auto on/off pressure regulation.
- Internal pressure and vacuum tanks hold pressures for quick start ups and high performance rates.
- Water resistance and temperature corrected sensors for extreme flight line conditions.
- Smart AC power supply for safe flight line usage input voltages 85 to 265 VAC / 47 to 420 Hz.
- Storm Case constructed to meet all applicable requirements of MIL-STD-810 and watertight standards to MIL-108. The case includes heavy-duty, in-line wheels that roll solidly and smoothly under any load and an extendable/retractable tow handle for easy travel.
- Vortex valve that automatically adjusts air pressure without letting in water.
- Test set is equipped with quick connect fittings, 2 hoses (20 ft/ea) and a terminal cable (20 ft).
- Case meets required measurements to fit into overhead compartment in commercial airlines.

Dimensions  
28”L x 14”W x 9”H  
35 lbs.



# Automated RVSM Pitot / Static Air Data Test Set

## DPST-9200A Performance Specifications

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### 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: -1500 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 12,000 ft./min.  
Resolution: 1 ft./min.  
Accuracy: ±1 % of rate with a min. of 10 ft./min.

### Airspeed Performance

Range: 0 to 650 Knots  
Resolution: 0.1 Knots  
Accuracy: ±0.5 Knots @ 20 knots  
±0.05 Knots @ 600 knots

### Mach Performance

Range: 0.0 Mach to 2.791 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)  
Color-coded and Keyed

### Display Update Rate

Once Every 2 Tenths per Second

### Sensors

Honeywell Certified Sensors (NIST Traceable)  
with built-in temperature compensation

### Power Requirement

Input Range: 85 - 265 VAC  
Frequency Range: 47 Thru 420 Hz

### Environmental Specs

Temp. Operating: 00 C to 50o C  
Temp. Storage: -250 C to + 600 C  
Humidity: 0 to 95% RH

### Warranty & Calibration

Warranty: 2 years (parts & labor)  
Calibration: Up to 1 year  
(yearly calibration suggested)

### RVSM Certification

Calibration / Trace to NIST  
Exceed RVSM Accuracy Compliance Specs

### Physical Dimensions

22" L x 14" W x 9"H

### Weight

35 Lbs.

### Case

Storm Case / Yellow

### ORDERING INFORMATION

**Mfg. Part Number: DPST-9200A**  
Lab 19" Rack Mount \_\_\_\_\_ DPST-9200A - R  
High Volume Pump \_\_\_\_\_ DPST-9200A - H

### Accessories Include:

Protection Quick Release Fittings,  
Hoses and operation manual.



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