



DPST-9200A Automated Pitot Static Test Set

“Exceeds RVSM High Accuracy Standards”

FAA Certified Repair Station # DZMR112L

Cage Code # 3PTA2

General Information

The Model DPST-9200A Pitot Static 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. This test set can also be used in a laboratory environment to calibrate instrumentation and other test equipment. 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 dial presentation.
- The 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 system.
- Automatic pitot and static leak rate functions and automatically calculate leak rate values.
- “Go To Ground” feature automatically and safely depressurizes Pitot & Static pressure systems to ambient conditions.
- Smart AC power supply for safe flight line usage input voltages range 85 to 265 VAC / 47 to 420 Hz.

**Case meets required measurements to fit into overhead compartment in commercial airlines.
Weight 35 lbs.*



- Test set is equipped with quick connect fittings, 2 hoses (20 ft/ea) and a terminal cable (20 ft). Additional cable lengths are available upon request.
- Terminal specifications include user-friendly keypad interface; full-function Touch Screen; LED function indicators; Humidity, MIL-STD-810F, Method 507.4; and Water, IP67, sealed against immersion, MIL-STD-810F, Method 512.4, P-1.
- 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 tanks hold pressures for quick start ups and high VSI performance rates.
- Water resistance and temperature corrected sensors for extreme flight line conditions.
- Exterior case dimensions 28”L x 14”W x 9”H / Weight 35lbs.

Automated RVSM Pitot Static Test Set DPST-9200A Performance Specifications

Absolute Pressure Performance

Static Pressure:

Range: 0.3 to 40 inHg abs.
Accuracy: +/- 0.001 % FS
Repeatability: +/- 0.0008 % FS
Drift: +/- 0.004 % FS per year max.
Overpressure: 300 % FS without damage

Pitot Pressure:

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

Altitude Performance

Range: -1,500 ft. to 55,000 ft.
Resolution: 1 ft.
Accuracy: ±2 ft. @ 0 ft., ±5 ft. @ 35,000 ft., and
±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.
Static Range: 250 cubic inches max
Pitot Range: 100 cubic inches max

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

Quick Disconnects (2 ea.)
Safety Seal on Female Quick Connect

Display Update Rate

Once Every 2 Tenths per Second

Outputs

Data Output / RS-485 / RS-485 (Option #1)

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: -40° C to +85° C
Temp. Storage: -25° C to +60° 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 Case

35 Lbs. Storm Case/ Yellow
MIL-STD-810F • FED-STD-101C • ATA 300

Accessories Include:

Protection Quick Release Fittings, Hose Kit and
Operation Manual.

ORDERING INFORMATION/ OPTIONS

Mfg. Part Number: DPST-9200A-XXXX

Option 1: RS-232/485 interface	-RS
Option 2: Rack mount	-R
Option 3: 28VDC power	-DC
Option 4: Encoder / Decoder	-ENC
Option 5: High Altitude (80K ft.)	-HA
Option 6: High Altitude (99k ft./1050 knots/50k ROC)	-HA1K

REV 01/28/11



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