

PST-8000M RVSM AIR DATA TEST SET

*“Exceeds RVSM High Accuracy Standards”
Max. Altitude is 55,000 Feet.*



GENERAL INFORMATION: The Model PST-8000M Digital Air Data Test Set is a precision test set with two independent channel pressure controllers 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 environment to calibrate Altimeters and Airspeeds in maintenance shops or harsh hangar environments. The test set is compact, light weight, and can fit in the overhead compartment on most commercial airliners.

STANDARD FEATURES:

- Certified to perform Reduced Vertical Separation Minimum (RVSM) Pitot Static FAR 91.411 and FAR 43 Appendix E certifications on fixed wing and rotary aircraft.
- Precision microprocessor based with Honeywell sensors, accuracy to 0.001% FS.
- No warm up time required.
- Performance: 55,000 ft of altitude, 20,000 ft/min VSI rate, and 650 knots of airspeed.
- Calibration meets or exceeds the published specifications, which are traceable to the National Institute Standards and Technology (N.I.S.T.)
- Sun-light readable color display showing real instrument presentation. Touch screens display Altitude, Vertical Speed, Airspeed, EPR and other measurements in various units of measure, including Ft, M, Kts, Km/hr, Mach, Ft/min, EPR (PT/PS), inHg, mb and psia.
- Precision Metering valves allow fine precision control of altitude, VSI, and airspeed. Also has protection shut-off seats for lifetime use.
- Smart AC power supply for safe flight line usage-input voltages 85 to 265 VAC/47 to 420 Hz.
- Color coded hoses with self-sealing quick connections to protect aircraft from pressure loss. Comes equipped with quick connect fittings, 2 (ea.) twenty ft hoses and a 6 ft power cord.
- Internal pumps produce pressure and vacuum, and have a 5,000 hour cycle to overhaul.
- Storm Case is watertight, padlockable, and made in the USA to meet applicable requirements of MIL-STD-810F and FED-STD-101C.
- 2 YEAR PARTS AND LABOR WARRANTY



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*Case meets required measurements to fit into overhead compartment in commercial airlines.
Exterior case dimensions: 20”L x 15”W x 7”H,
50.8cm L x 38.1cm W x 17.8cm H.
Weight 28 lbs., 12.7 kgs.*

Digital Manual RVSM Pitot Static Test Set

PST-8000M Performance Specifications

Absolute Pressure Performance

Static Pressure:

Range: 0.3 to 40 inHg abs.
Accuracy: +/- 0.001 % FS
Repeatability: +/- 0.001 % 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 % FS
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.
±12 ft. @ 55,000 ft.

Rate of Climb Performance:

Range: 100 ft./min. to 20,000 ft./min.
Resolution: 5 ft./min.
Accuracy: ±1% of VSI Rate

Airspeed Performance:

Range: 10 to 60 Knots
Resolution: 0.5 Knots
Accuracy: ±0.5 Knots @ 20 knots
±0.05 Knots @ 650 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 Connects

Display Update Rate:

Once Every 2 Tenths per Second

Sensors:

Honeywell Certified Sensors (NIST Traceable)

Power Requirement:

Input Range:
Frequency Range: 47 Thru 420 Hz

Environmental Specs:

Temp. Operating: 0° C to +50° C / 32° F to 122° F
Temp. Storage: -13° C to +60° C / -13° F to 140° F
Humidity: 0% to 95% RH20

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:

20" L x 15" W x 7"H Mil-STD810F

Weight Case

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

Accessories Include: Protection Quick Release
Fittings, Hoses, Shipping Container and Operation
Manual.

REV. 03/02/2021