

DPST-8000M Pitot Static Test Set

“Exceeds RVSM High Accuracy Standards”

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General Information

The Model DPST-8000 Pitot Static 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 environment 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
- Storm 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 and 2 hoses that are each 20 ft in length.
- Calibration meets or exceeds the published specifications, which are traceable to the National Institute Standards and Technology “N.I.S.T.”.

Dimensions

20”L x 16”W x 8”H
25 lbs.



Digital Manual RVSM Pitot Static Test Set

DPST-8000M Performance Specifications

Absolute Pressure Performance

Static Pressure:

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

Pitot Pressure:

Range: 0.8 to 80 inHg abs.
Accuracy: +/- 0.001 inHg FS
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

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

Display Update Rate

Once Every 2 Tenths per Second

Outputs

USB Port / Data Output / RS-485 (Additional Fees)

Sensors

Honeywell Certified Sensors (NIST Traceable)

Power Requirement

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

Environmental Specs

Temp. Operating: 0° C to +50° C
Temp. Storage: -25° C to +60° C
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

23 Lbs.

Case

Storm Case

ORDERING INFORMATION

Mfg. Part Number: DPST-8000M

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