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AvionTEq

## DPST-5000M Digital Pitot Static Test Set "High Accuracy, Exceeds 91.411 FAR Specs, Light Weight with Indestructable Sensor and Display!"



Cage Code # 3PTA2



## **General Information**

The Model DPST-5000 Digital 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 environments to calibrate Altimeters and Airspeeds in maintenance shops or in harsh hanger 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.

- Certified to perform Pitot Static FAR 91.411 and / or FAR 43 Appendix E certifications on fixed or rotary wing aircrafts.
- Precision microprocessor based with Honeywell sensors, accuracy to 0.02% (± 40 ft. @ 55,000 ft.) of full range.
- Sun-light readable color 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 55,000 ft. of altitude, 15,000 ft./min VSI rate, and 600 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 is rugged and constructed to meet applicable requirements of MIL-STD-810F and FED-STD-101C and is watertight, pad lockable and is made in the USA.
- Test set is equipped with quick connect fittings, 2 hoses (20 ft/ea) and a power cord (6ft).
- Calibration meets or exceeds the published specifications, which are traceable to the National Institute Standards and Technology "N.I.S.T".





## **Digital Manual Pitot Static Test Set DPST-5000M Performance Specifications**

## **Absolute Pressure Performance**

**Static Sensor:** 

Range: 0.3 to 40 in Hg abs. Accuracy: +/- 0.020 inHg FS Repeatability: +/- 0.150 inHg % span Drift: +/- 0.50 % inHg per year FS Overpressure: 200 % FS without damage

0.8 to 80 inHg abs.

**Pitot Sensor:** 

Range: +/-0.020 inHg Accuracy: Repeatability: +/- 0.150 inHg % span Drift: +/- 0.50 % inHg per year Overpressure: 200 % FS without damage

**Altitude Performance** 

-1500 ft. to 55,000 ft. Range:

Resolution: 1 ft.

Accuracy:  $\pm 5$  ft. (a) 0 ft.

> $\pm 45$  ft. @ 35,000 ft.  $\pm 125$  ft. @ 55,000 ft.

**Rate of Climb Performance** 

100 ft./min. to 12,000 ft./min. Range:

Resolution: 5 ft./min.

 $\pm 10$  % of rate with a min. of 20 ft./min. Accuracy:

Airspeed Performance

Range: 10 to 600 Knots

Resolution: 0.5 Knots

Accuracy: ±2 Knots@ 20 knots

±1 Knots @ 100 knots ±1.5 Knots @ 600 knots

**Mach Performance** 

Range: 0.0 Mach to 2.79 Mach

Resolution: 0.001 Mach

0.020 Mach + 0.1 MachAccuracy:

for Ps = 29.921 in Hg.

**EPR Performance** 

0.1 to 3.0 (Ps @ 30inHg) Range:

Resolution: 0.001

0.15 %FS PSI Accuracy:

**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: -40° C to +85° C Temp. Storage:  $-25^{\circ}$  C to  $+60^{\circ}$  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 FAA Accuracy FAR 91.411 Specifications

**Physical Dimensions** 

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

Weight Case 25 Lbs Storm Case

**ORDERING INFORMATION** 

Mfg. Part Number: **DPST-5000M** 

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