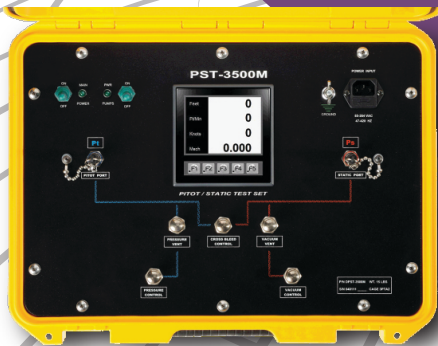


PST-3500M DIGITAL PITOT STATIC TEST SET

“High Accuracy, Exceeds 91.411 FAR Specs, Light Weight with Durable Sensor and Display!” Max. Altitude is 35,000 Feet.



GENERAL INFORMATION: The Model PST-3500M 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 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 Pitot Static FAR 91.411 and FAR 43 Appendix E certifications on fixed or rotary wing and LSA aircraft.
- Precision microprocessor based with temperature compensated sensors - accuracy to 0.020% FS.
- No warm up time required.
- Performance: 35,000 ft of altitude, 20,000 ft/min VSI rate, and 400 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 touch screen TFT display showing detailed units of measurement. Simple pop-up screens display Altitude, Vertical Speed, Airspeed, and other measurements in various units of measure, including: ft, M, Kts, Km/hr, Mach, Ft/min, EPR (PT/PS), inHg, mb, and psia.
- Oxygen mask annunciator with built-in sensor protection for dump characteristics.
- Pitot and static leak rate modes automatically perform calculations for pass/fail conditions.
- 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-STD101C.
- 2 YEAR PARTS AND LABOR WARRANTY



≡AIRR≡engineering

*Case meets required measurements to fit into overhead compartment in commercial airlines.
Exterior case dimensions:
18" L x 13.40" W x 6.7" H,
46.2cm L x 34cm W x 17cm H.
Weight 15 lbs., 6.8 kgs.*

Digital Manual Pitot Static Test Set

PST-3500M Performance Specifications

Absolute Pressure Performance

Static Sensor:

Range: 0.6 to 32 inHg abs.
Accuracy: +/- 0.020 % FS
Overpressure: 200 % FS without damage

Pitot Sensor:

Range: 0.8 to 60 inHg abs.
Accuracy: +/- 0.020 % FS
Overpressure: 200 % FS without damage

Altitude Performance:

Range: -1,500 ft. to 35,000 ft.
Resolution: 1 ft.
Accuracy: ±5 ft. @ 0 ft.
±45 ft. @ 35,000 ft.

Rate of Climb Performance:

Range: 100 ft./min. to 20,000 ft./min.
Resolution: 25 ft./min.
Accuracy: ±1% of VSI Rate

Airspeed Performance:

Range: 10 to 400 Knots
Resolution: 1.0 Knots
Accuracy: ±2 Knots @ 20 knots
±1 Knots @ 100 knots
±1.5 Knots @ 400 knots

Mach Performance:

Range: 0.0 Mach to 1.12 Mach
Resolution: 0.001 Mach
Accuracy: 0.020 Mach + 0.1 Mach

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

Temperature Compensation Range

32°F to 1 °F
0°C to 0°C

Sensors:

Silicon Sensors / Temperature Compensated

Power Requirement:

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

Environmental Specs:

Temp. Operating: 0° C to + 50° 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*)

Certification:

Calibration / Trace to NIST
Accuracy exceeds FAA Regulations FAR 91.411
Specifications

Physical Dimensions:

18.20" L x 13.40" W x 6.70" H
(46.2 x 34 x 17 cm)

Weight Case Specification:

15 Lbs. / 6.8 Kg
MIL-STD-810F • FED-STD-101C • ATA 300
Color / Flight Line Yellow

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

REV. 03/02/2021