

DPST-7200A Automated Pitot Static Test Set

"High Accuracy Standards for FAR 91.411 Certification"



FAA Certified Repair Station # DZMR112L
Cage Code # 3PTA2

General Information

The Model DPST-7200A 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. 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 Standard FAR 91.411 Part 43 App E.
- Precision microprocessor based with Honeywell sensors, accuracy to +/- 0.020% 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 displays.
- 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 unit.
- Automatic pitot and static leak rate functions automatically calculate leak rate values.
- "Go To Ground" feature automatically and safely depressurizes Pitot & Static pressure to ambient.
- Smart AC power supply for safe flight line usage input voltages range 85 to 265 VAC / 47 to 420 Hz.

Dimensions
28"L x 14"W x 9"H
35 lbs.



- Test set is equipped with quick connect fittings, 2 hoses (20 ft/ea) and a terminal cable (20 ft).
- Case meets required measurements to fit into overhead compartment in commercial airlines.
- 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 pressure and vacuum tanks hold pressures for quick start ups and high performance rates.
- Water resistance and temperature corrected sensors for extreme flight line conditions.

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Automated Pitot / Static Pitot Static Test Set

DPST-7200A Performance Specifications

Absolute Pressure Performance

Static Sensor:

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

Pitot Sensor:

Range: 0.8 to 80 inHg abs.
Accuracy: +/- 0.020 inHg
Repeatability: +/- 0.150 inHg % span
Drift: +/- 0.50 % inHg per year
Overpressure: 200 %FS without damage

Altitude Performance

Range: -1500 ft. to 55,000 ft.
Resolution: 1 ft.
Accuracy: ±5 ft. @ 0 ft.
±45 ft. @ 35,000 ft.
±125 ft. @ 55,000 ft.

Rate of Climb Performance

Range: 100 ft./min. to 12,000 ft./min.
Resolution: 5 ft./min.
Accuracy: ±10 % of rate with a min. of 20 ft./min.

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
Accuracy: 0.020 Mach + 0.1 Mach
for Ps = 29.921 inHg.

EPR Performance

Range: 0.1 to 3.0 (Ps @ 30inHg)
Resolution: 0.001
Accuracy: 0.15 %FS PSI

Pressure Medium

Dry Air

Pressure Connections

Color-Coded Safety Seal Quick Disconnects (2 ea.)

Display Update Rate

Once Every 2 Tenths per Second

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° 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 is Traceable to NIST
Exceed FAA Accuracy FAR 91.411 Specifications

Physical Dimensions

22" L x 14" W x 9" H

Weight

35 Lbs.

Case

Storm Case

ORDERING INFORMATION

Mfg. Part Number: **DPST-72000A**
Lab 19" Rack Mount _____ DPST-9200A - R

Accessories Include: Protection Quick Release Fittings,
Hoses and operation manual.

REV 06/08/09



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