

ADSE 643 PITOT / STATIC TESTER

THE MOST VERSATILE PITOT & STATIC ON THE MARKET

- ALTIMETERS TESTING
- AIRSPEED INDICATORS TESTING
- VERTICAL SPEED INDICATORS TESTING
- AIR DATA COMPUTERS TESTING
- PRESSURE SENSORS TESTING
- LEAK TESTER

RVSM COMPLIANT



The ADSE 643 caters fully for all aircraft types and the different electrical power supplies. It can be used for testing high performance civil and military aircraft, fix and rotary wing. This Pitot Static tester is designed primarily for flightline use to cover the testing of all barometric and manometric pressure instrument systems. The ease of use and portability enables all checks to be carried out easily on the flight deck or in the cockpit, by a single operator. The test set is housed in an anodized metal and rugged case. An attached case contains the pressure hoses and electrical cables. Accessories to suit specific applications may be supplied.

Main Features

- Manual pressure and vacuum generation (automatic as option)
- Simple and easy to use software interface that makes operation quicker and safer
- Complete self check of set before use
- High accuracy, high resolution
- RVSM compliant
- Programmable leak test
- Programmable flight envelope to protect equipment under test
- All four primary flight parameters easily accessible
- Programmable (password write protected) test schedules
- Selectable pressure units: hPa; mb; in Hg; mmHg; ft; m; kts; km/h, ft/min; hm/min, Mach number

General details

Temperature range	Operating -10° to 50°C (14° to 122°F)
	Storage -20° to +60°C (-4° to 140°F)
Power supply	90/240V, 50 to 400Hz AC, 24V DC
Case	Completely weatherproof, meets EMC requirements MIL STD 462D
Physical	515x380x270mm (20.3 x 15 x 10.6 inch) (case) - 17kg (38 lbs)
Calibration	Recommended period 12 months
Ease of Use	Manual pressure and vacuum pump
Ease of maintenance	Maintenance limited to calibration, regular external cleaning and exchange of filters (with the calibration)

Optional

Pressure and vacuum pumps for automatic generation

Measurement specification in standards conditions

Function	Range	Accuracy
Altitude	-2,300 to 50,000ft	± 3ft at 0ft
		± 7ft at 30,000ft
		± 18ft at 50,000ft
Altitude rate	Up to ± 6,000ft/min	± 2%
Indicated airspeed	10 to 650kts	± 1kt at 50kts
		± 0.2kt at 500kts
		± 0.04kt at 650kts
Mach N°	0.1 to 3.0 Mach	± 0.001M at 0.8M/25,000ft
		± 0.002M at 1.7M/30,000ft
Static sensor	30 to 1100 mbar (absolute)	0,01% FS
Pitot sensor	0 to 1000 mbar (differential)	0,01% FS

- Continuing development sometimes necessitates specification changes without notice.
- Special options can be analyzed and developed on request.



SPVU 600: pressure and vacuum unit