

PITOT / STATIC TESTER ADSE 740

FOR LABORATORY AND WORKSHOP

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

RVSM COMPLIANT



The ADSE 740 is a complete high performance dual pressure Ps and Pt standalone test bench specially designed to be used in the workshop or in the laboratory to test and calibrate all air data equipment such as altimeters, vertical speed indicators, air speed indicators, MACH-meter, air data computers ...) and sensors.

The high precision embedded sensors enable the ADSE 740 to be used as a pressure standard.

The user interface is programmed under Windows® and Labview®, with a data base managed in a spreadsheet for easy evaluation, management, statistics and presentation.

Main Features

- 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 displayed simultaneously
- Programmable (password write protected) test schedules - 24 programs available
- Selectable pressure units: hPa; mb; in Hg; mmHg; ft; m; kts; km/h, ft/min; hm/min, Mach number

Additional features

Temperature range	Operating 15° to 40°C (60° to 104°F) Storage -20° to +60°C (-4° to 140°F)
Power supply	90/240V, 50 to 400Hz AC, 150VA
Case	19" x 4 U x 524 mm (20.6 inch), 14kg (31 lbs)
Screen	17" LCD colour 2,5kg (5,5 lbs)
Calibration	Recommended period 12 months
Ease of Use	Windows human/machine interface Program script Easy programming of test reports
Ease of maintenance	Modular design permitting ease of accessibility to mechanical assemblies and electronic components

Optional

Internal pump:	60.000 ft - 6.000 ft/min (Volume dependant)
IEEE488 digital interface	
Ps & Pt outlet at the back of the bench	
Vertical housing	
Specific Pt sensor for improved accuracy at low speed	
Pneumatic connectors JIC 37 (AN4) or Staubli	

Measurement specifications in standard conditions

Function	Range	Accuracy
Altitude	-2,300 to 60,000ft	±1.5ft at 0ft
	(up to -4,000ft to 100,000ft optional)	± 4ft at 30,000ft
		±16ft at 60,000ft
Altitude rate	± 0 to 6,000ft/min	±1%
	(up to ± 60,000ft/min optional)	±1%
Indicated airspeed	10 to 800 kts	±1kt at 50kts (±0.5kts at 50kts optional)
	(up to 1000 kts optional)	± 0.2kt at 350kts (± 0.1kts at 350kts opt.)
		± 0.04kt at 650kts
Mach N°	0.1 to 4.0 Mach	± 0.001M at 0,8M/25,000ft
	(0.1 to 10 Mach optional)	± 0.002M at 1,7M/30,000ft
Static sensor	30 to 1200 mbar	0,01% FS
Pitot sensor	30 to 3000 mbar	0,01% FS

- On-going developments may cause a change in specifications without notice.
- Special developments may be considered on a case by case basis.



SPVU 700:
pressure and vacuum unit