



Test Instruments & Benches



WE TEST *You Fly*

2011



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PITOT / STATIC TESTER For Laboratory and workshop



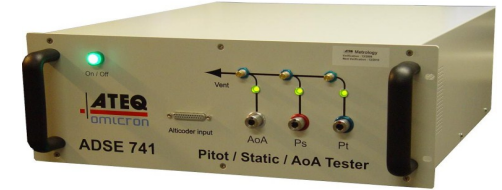
ADSE 715



ADSE 730 PC



ADSE 740



ADSE 741

For Hangar & Tarmac



ADSE 712



ADSE 735



ADSE 743/44



ADSE 746



PITOT / STATIC READER **For Laboratory and Workshop** *Sometimes it is just better to not generate*

- ⇒ ALTIMETERS READING
- ⇒ AIR SPEED INDICATORS READING
- ⇒ VERTICAL SPEED INDICATORS READING
- ⇒ AIR DATA COMPUTERS READING
- ⇒ PRESSURE SENSORS READING
- ⇒ AOA TESTING FOR SPECIFIC PROBES

RVSM COMPLIANT



The ADSE 730PC is a complete high performance multi pressure **Ps**, **Pt** and **AoA** stand-alone static indicator specially designed to be used in the workshop or in the laboratory to test and calibrate all air data equipment (altimeters, vertical speed indicators, anemometer, angle of attack, MACH-meter and air data computers ...) and sensors.

The high precision embedded sensors enable the **ADSE 730PC** to be used as a pressure standard.

The ADSE 730PC works with a USB cable for PC connection

ADSE 730 PC

Main Features

- ◆ High accuracy, high resolution
- ◆ RVSM compliant
- ◆ Programmable leak test
- ◆ All four primary flight parameters displayed simultaneously
- ◆ Selectable pressure units : hPa; mb; in Hg; mmHg; ft; m; kts; km/h, ft/min; m/sec and Mach number



**RVSM
COMPLIANT**



LECTEUR PITOT / STATIC

ADSE 730 PC

General details

Temperature range	operating :	10 °C to 40 °C
Power supply	Through USB	
Case:	Robust aluminium	
	EMC requirements - MIL STD 462D	
Physical:	126mm x 107mm x 57mm	
	1kg (2,2lbs)	
Calibration:	Recommended period 12 months	

Optional

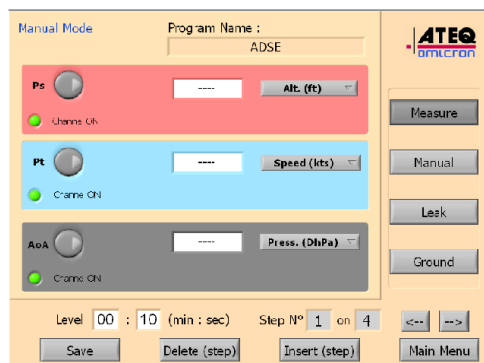
AoA sensor

Measurement specification

Function	Range	Accuracy (1)
Altitude:	-2,300 to 80,000ft	±3ft at 0ft
		±8ft at 30,000ft
		±32ft at 60,000ft
	-700 to 24,000m	±1m at 0m
		±3m at 10,000m
		±13m at 20,000m
Indicated airspeed:	10 to 800kts	±2kt at 50kts
		±0.14kt at 500kts
		±0.07kt at 800kts
	20 to 1480km/h	±3km/h at 100km/h
		±0.26km/h at 900km/h
		±0.13km/h at 1480km/h
Mach No:	0.1 to 10.0 Mach	±0.002M at 0,8M/25,000ft
		±0.004M at 1,7M/30,000ft
Static sensor	35 to 1355 mbar	0,007% FS
Pitot sensor	35 to 2700 mbar	0,007% FS
AOA sensor	35 to 1355 mbar	0,007% FS

(1) linearity + repeatability + hysteresis at ambient +10° to +40°C

x 0,5 for ±2°C lab use



Typical screen display



STATIC TESTER

For Laboratory and Workshop

It Can Test Virtually All Altimeters

- ⇒ **ALTIMETERS TESTING**
- ⇒ **VERTICAL SPEED INDICATORS TESTING**
- ⇒ **AIR DATA COMPUTERS TESTING**
- ⇒ **PRESSURE SENSORS TESTING**
- ⇒ **ALTIMETER'S WATCH TESTING**

RVSM COMPLIANT



The ADSE 715 is a complete high performance single pressure Ps stand-alone 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 data computers ...) and sensors.

The high precision embedded sensors enable the **AD-SE 715** to be used as a pressure standard.

The man machine interface running on a PC connected through USB link is programmed under Windows® and Lab-view®, with a data base managed in a spreadsheet for easy evaluation, management, statistics and presentation.

ADSE 715 RS Desk Housing

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
- ◆ Programmable (password write protected) test schedules – 24 programs available
- ◆ Selectable pressure units hPa; mb; in Hg; mmHg; ft; m; ft/min and m/min



**RVSM
COMPLIANT**

General details

Temperature range	Operating : -10°C to 50°C
Power supply	110/240V, 50 Hz AC, 150VA
Case:	370 x 320 x 250 mm, 7kg (15lbs)
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 pumps

19" 4U housing

Altitude sensor

Bigger Pumps : Altitude 100.000ft / RC 100.000ft/min
Volume Dependant



STATIC TESTER

ADSE 715 RS DH

Measurement Specification

Function	Range	Accuracy (1)
Altitude:	-2,300 to 60,000ft	±3ft at 0ft ±8ft at 30,000ft ±32ft at 60,000ft
	-700 to 18,000m	±1m at 0m ±2.5 m at 9,000m ±10 m at 18,000m
Altitude rate(2):	Up to ±50,000ft/min max.±15,000m/min	±1% ±1%
Static sensor	30 to 1200 mbar	0,007% FS (1)

(1) linearity + repeatability + hysteresis at ambient +10° to +40°C
x 1,5 for -10 to +50°C
x 0,5 for ±2° C lab use

(2) depending of pumping unit

Evolution Ps
Palier...

Alt.
Pente

Consigne Ps
Exécution

Alt.
Pente



PITOT / STATIC TESTER For Laboratory and Workshop

- ⇒ **ALTIMETERS TESTING**
- ⇒ **AIR SPEED 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 stand-alone 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 man machine interface is programmed under Windows® and Labview®, with a data base managed in a spreadsheet for easy evaluation, management, statistics and presentation.

ADSE 740

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; m/min and Mach number



**RVSM
COMPLIANT**

PITOT / STATIC TESTER

ADSE 740

General details

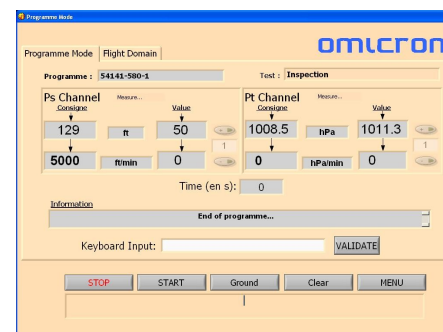
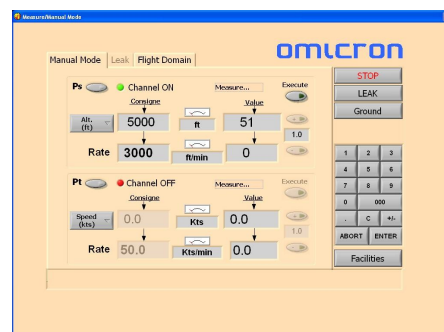
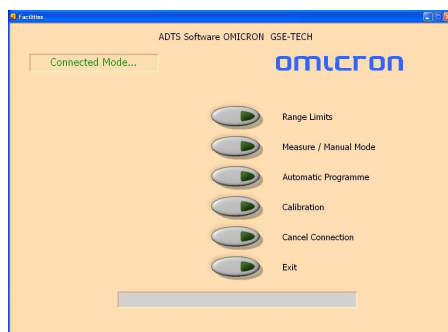
Temperature range	Operating : 15 °C to 40 °C
Power supply	110/240V, 50 Hz AC, 150VA
Case:	19" x 4 U x 524 mm, 14kg (31lbs)
Screen:	17" LCD colour 2,5kg (5,5 lbs)
Calibration:	Recommended period 12 months
Ease of Use	Windows human/machine interface Program script Easy programming of test reports
Ease of maintenance:	Modular design permitting ease of accessibility to mechanical assemblies and electronic components

Optional

Internal pumps	Bigger pumps : 100,000ft / RC
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 Specification

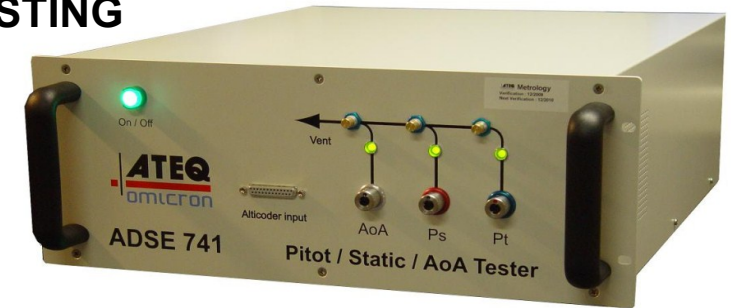
Function	Range	Accuracy (1)
Altitude:	-2,300 to 80,000ft	±3ft at 0ft
		±8ft at 30,000ft
		±32ft at 60,000ft
	-700 to 24,380m	±1m at 0m
		±2.5 m at 9,000m
		±10 m at 18,000m
Altitude rate:	Up to ±50,000ft/min	±1%
	max. ±15,000m/min	±1%
Indicated airspeed:	10 to 1000kts	±2kt at 50kts
		±0.14kt at 500kts
		±0.07kt at 800kts
	20 to 1850km/h	±3km/h at 100km/h
		±0.26km/h at 900km/h
		±0.13km/h at 1480km/h
Mach No:	0.1 to 10 Mach	±0.002M at 0,8M/25,000ft
		±0.004M at 1,7M/30,000ft
Static sensor	30 to 1200 mbar	0,007% FS (1)
Pitot sensor	30 to 3000 mbar	0,007% FS (1)
(1) linearity + repeatability + hysteresis at ambient +10° to +40°C		
x 1,5 for -10° to +50°C		
x 0,5 for ±2°C lab use		





PITOT / STATIC TESTER **For Laboratory and Workshop** **All in one high performance Pitot Static Tester**

- ⇒ ALTIMETERS TESTING
- ⇒ AIR SPEED INDICATORS TESTING
- ⇒ VERTICAL SPEED INDICATORS TESTING
- ⇒ AIR DATA COMPUTERS TESTING
- ⇒ PRESSURE SENSORS TESTING
- ⇒ AoA TESTING FOR SPECIFIC PROBES



The ADSE 741 is a complete high performance three channel Ps, Pt and AoA stand-alone 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, pneumatic AoA (Angle of Attack) indicators, MACH-meter, air data computers, specific probes and sensors.

The high precision embedded sensors enable the **ADSE 741** to be used as a pressure standard.

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

ADSE 741

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; m/min and Mach number



**RVSM
COMPLIANT**

PITOT / STATIC TESTER

ADSE 741

General details

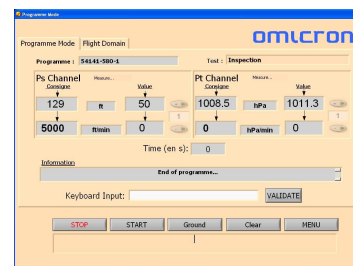
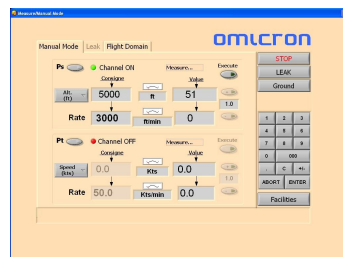
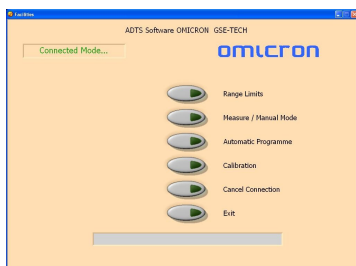
Temperature range	Operating : 15 °C to 40 °C
Power supply	110/240V, 50 Hz AC, 150VA
Case:	19" x 4 U x 524 mm, 14kg (31lbs)
Screen:	17" LCD colour 2,5kg (5,5 lbs)
Calibration:	Recommended period 12 months
Ease of Use	Windows human/machine interface Program script Easy programming of test reports
Ease of maintenance:	Modular design permitting ease of accessibility to mechanical assemblies and electronic components

Optional

Internal pumps	Bigger pumps : 100,000ft / RC
IEEE488 digital interface	
Ps, Pt & AoA 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 Specification

Function	Range	Accuracy (1)
Altitude:	-2,300 to 80,000ft	±3ft at 0ft
		±8ft at 30,000ft
		±32ft at 60,000ft
	-700 to 24,380m	±1m at 0m
		±2.5 m at 9,000m
		±10 m at 18,000m
Altitude rate:	Up to ±50,000ft/min	±1%
	max. ±15,000m/min	±1%
Indicated airspeed:	10 to 1000kts	±2kt at 50kts
		±0.14kt at 500kts
		±0.07kt at 800kts
	20 to 1850km/h	±3km/h at 100km/h
		±0.26km/h at 900km/h
		±0.13km/h at 1480km/h
Mach No:	0.1 to 10 Mach	±0.002M at 0,8M/25,000ft
		±0.004M at 1,7M/30,000ft
Static sensor	30 to 1200 mbar	0,007% FS (1)
Pitot sensor	30 to 3000 mbar	0,007% FS (1)
(1) linearity + repeatability + hysteresis at ambient +10° to +40°C		
x 1,5 for -10° to +50°C		
x 0,5 for ±2°C lab use		





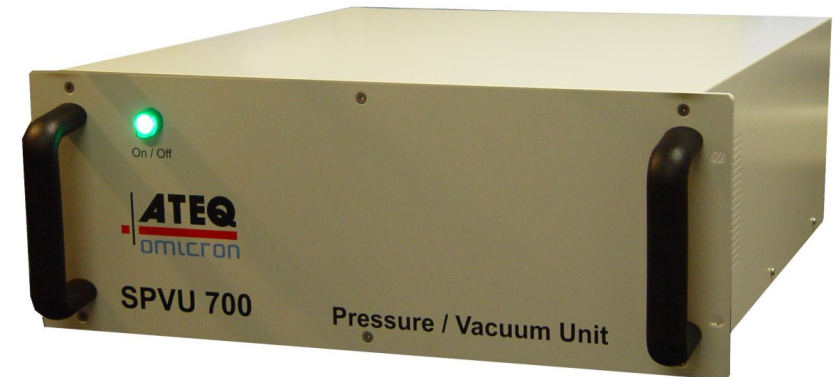
⇒ **AUTO CONTROLLED BY ADSE**

The SPVU 700 is Pressure and vacuum unit uses with laboratory ADSE.

The SPVU 700 integrates up to 3 vacuum pumps (on by channel) and a pressure pump.

The SPVU 700 can be controlled directly by the ASDE through a specific cable link.

Pressure And Vacuum Unit For Laboratory ADSE



SPVU 700

Main Features

- ◆ 2 or 3 vacuum pumps (Ps & Pt / Ps, Pt & AoA)
- ◆ 1 pressure pump
- ◆ Separate pressure pump
- ◆ Remote controlled by ADSE 7XX

Options

- ◆ High Vacuum pump for 100,000 ft & 100,000ft/min RC



VACUUM CHAMBERS For Laboratory and Workshop



⇒ **ALTIMETERS TESTING**

⇒ **AIR SPEED INDICATORS TESTING**



⇒ **VERTICAL SPEED INDICATORS TESTING**

⇒ **MANO-CONTACT TESTING**



⇒ **PRESSURE SENSORS TESTING**

⇒ **ALL NON PRESSURISED EQUIPMENT TESTING**



The CV 250 and CV 400 are vacuum chambers for altitude flight simulation for avionics instruments such as altimeters, rate of climb indicators and all non pressurised equipment.

They are fitted with pneumatic and electric connectors and a quick locking door.

The CV250 and CV400 are fitted in option with a vibrating table.



CV 250 & CV 400

Main Features

- ◆ Only one generation channel for pressure or vacuum
- ◆ 370 mm (14.5 inch) internal diameter (CV 400)
- ◆ 230 mm (9 inch) internal diameter (CV 250)
- ◆ Max. dimensions of the instruments fitting in the chamber:
 - CV 400: 265 * 150 * 280 mm
 - CV 250: 145 * 110 * 280 mm
- ◆ Transparent door and case
- ◆ Overpressure secured at 1200 hPa
- ◆ Quick locking door
- ◆ Possible incline up to 20°
- ◆ Option: Vibrating table



PITOT or STATIC TESTER ***A light and reliable Pitot Static Tester***



⇒ **ALTIMETERS TESTING**

⇒ **AIR SPEED INDICATORS TESTING**



⇒ **VERTICAL SPEED INDICATORS TESTING**

⇒ **AIR DATA COMPUTERS TESTING**

⇒ **PRESSURE SENSORS TESTING**



⇒ **LEAK TESTER**

RVSM COMPLIANT



The ADSE 735 allows generating and controlling automatically pressures and vacuum simulating altitudes and speeds with regulated altitude rates at 1%, in order to check the accuracy, the hysteresis and the leak rates of **all types of aircraft flight indicators (altimeters, airspeed indicator, vertical speed indicator and air data computers)**.

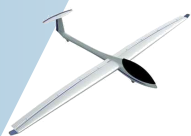
Its robust polyester case is easy to carry and contains all necessary features (electrical cables and pressure hoses)

The parameter control is performed via a rugged PDA type **remote control unit** with an LCD transfective touch-screen display (allowing vision in the sun).

ADSE 735

Main Features

- ◆ Ps / Pt (Speed simulation at ground level)
- ◆ RVSM with 70 000 ft extended flight domain option
- ◆ Computer controlled regulation
- ◆ Built-in pressure/vacuum pumps
- ◆ QVGA Colour Liquid crystal display with touch sensitive screen for operator I instructions/help
- ◆ Complete self check of set before use
- ◆ High accuracy, high resolution
- ◆ Programmable leak test
- ◆ Programmable flight envelope to protect equipment under test
- ◆ All primary flight parameters displayed simultaneously
- ◆ Programmable (password write protected) test schedules – 24 programmes available
- ◆ Selectable pressure units : hPa; mb; in Hg; mmHg; ft; m; kts; km/h, ft/min; hm/min and Mach number



**RVSM
COMPLIANT**



PITOT or STATIC TESTER

ADSE 735

General details

Temperature Range	Operating	-10° à +50°C
	Storage	-20° à +60°C
Power supply	110/240V, 50 Hz AC, 70VA	
Case:	Water resistant	
	CE and MIL STD462D marking	
Physical	440mm x 325mm x 200mm	
Weight	12 kg	
Calibration:	Recommended every 12 months	

Options

Power supply :	12 to 32V DC
AC Power Supply:	110/240 V, 50 to 400 Hz
Bigger pump :	70,000 ft . Volume dependant

Measurement specifications

Function	Range	Accuracy (1)
Altitude:	-2,300 to 50,000ft	±5 ft at 0 ft
		±7 ft at 5,000 ft
		±8 ft at 15,000 ft
	-700 to 15,000m	±1.5 m at 0 m
Rate of climb:	Up to ±6,000ft/min	±1%
	Up to ±2,000m/min	±1%
Indicated airspeed	20 to 700kts	±3.5kt at 20kts
		±0.2kt at 150kts
		±0.1kt at 350kts
	50 to 650km/h	±1.2km/h at 100km/h
Sensor	30 to 1100 mbar	±0.4km/h at 300km/h
		±0.2km/h at 650km/h
		0,007% FS (1)

(1) linearity + repeatability + hysteresis at ambient +10° to +40°C
x 1,5 for -10° to +50°C

FS: Full Scale



PITOT / STATIC TESTER

One of the best Pitot-Static testers on the market



ALTIMETERS TESTING

⇒ AIR SPEED INDICATORS TESTING



⇒ VERTICAL SPEED INDICATORS TESTING

⇒ AIR DATA COMPUTERS TESTING

⇒ PRESSURE SENSORS TESTING



⇒ LEAK TESTER

RVSM COMPLIANT

The ADSE 743 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 flight-line use to cover the testing of all barometric and manometric pressure instrument systems.

The large touch screen display, with on-screen help, enables all checks to be carried out easily on the flight deck or in the cockpit, by a single operator.

The Test Set is robust and housed in a mobile weatherproof case. An attached bag contains the pressure hoses and electrical cables.

Accessories to suit specific applications may be supplied.



ADSE 743

Main Features

- ◆ Built-in pressure and vacuum pumps
- ◆ Liquid crystal colour display with touch sensitive screen for operator instructions/help
- ◆ Remote control unit based on Windows XP tablet PC
- ◆ 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**
- ◆ Selectable pressure units : hPa; mb; in Hg; mmHg; ft; m; kts; km/h, ft/min; hm/min, Mach number,



**RVSM
COMPLIANT**

PITOT / STATIC TESTER

ADSE 743

General details

Temperature range	Operating -10° to 50°C
Power supply	110/240V, 50 to 400 Hz AC, 150VA
Case:	Completely weatherproof, meets EMC requirements - MIL STD 462D
Physical:	515mm x 380mm x 270mm 17 kg (38 lbs)
Calibration:	Recommended period 12 months
Ease of Use	Remote touch screen Integrated bag for cables and hoses
Ease of maintenance:	Maintenance limited to calibration, regular external cleaning and exchange of filters (with the calibration)

Optional

Power supply :	17 to 32V DC
Remote Control Software for PC (Windows 2000 & XP)	
Bigger Pumps :	100,000ft / 50,000ft/min Volume Dependant

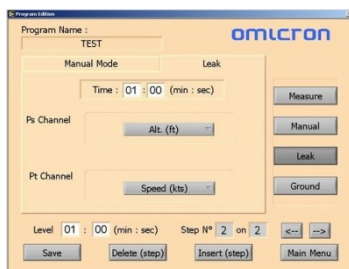
Measurement specification

Function	Range	Accuracy (1)
Altitude:	-2,300 to 60,000ft	±3ft at 0ft
		±8ft at 30,000ft
		±32ft at 60,000ft
	-700 to 18,000m	±1m at 0m
		±2.5m at 9,000m
		±10m at 18,000m
Altitude rate:	Up to ±30,000ft/min	±1%
	max. ±9,150m/min	±1%
Indicated airspeed:	10 to 850kts	±2kt at 50kts
		±0.14kt at 500kts
		±0.07kt at 800kts
	20 to 1570km/h	±3km/h at 100km/h
		±0.26km/h at 900km/h
		±0.13km/h at 1480km/h
Mach No:	0.1 to 10.0 Mach	±0.002M at 0.8M/25,000ft
		±0.004M at 1.7M/30,000ft
Static sensor	30 to 1200 mbar	0,007% FS (1)
Pitot sensor	30 to 3000 mbar	0,007% FS (1)

(1) linearity + repeatability + hysteresis at ambient +10° to +40°C

x1,5 for -10° to +50°C

x0,5 for ±2°C lab use





PITOT / STATIC / AoA TESTER

AoA Testing has never been made so easy



⇒ **ALTIMETERS TESTING**

⇒ **AIR SPEED INDICATORS TESTING**

⇒ **VERTICAL SPEED INDICATORS TESTING**

⇒ **AIR DATA COMPUTERS TESTING**

⇒ **PRESSURE SENSORS TESTING**

⇒ **AOA TESTING FOR SPECIFIC PROBES**

⇒ **LEAK TESTER**



The ADSE 744 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 flight-line use to cover the testing of all barometric and manometric pressure instrument systems.

The large touch screen display, with on-screen help, enables all checks to be carried out easily on the flight deck or in the cockpit, by a single operator.

The Test Set is robust and housed in a **mobile weatherproof case**. An attached bag contains the pressure hoses and electrical cables.

Accessories to suit specific applications may be supplied.

RVSM COMPLIANT

ADSE 744



Main Features

- ◆ Built-in pressure and vacuum pumps
- ◆ Liquid crystal colour display with touch sensitive screen for operator instructions/help
- ◆ Remote control unit based on Windows XP tablet PC
- ◆ 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**
- ◆ Selectable pressure units : hPa; mb; in Hg; mmHg; ft; m; kts; km/h, ft/min; hm/min, Mach number,



**RVSM
COMPLIANT**



PITOT / STATIC / AoA TESTER

ADSE 744

General details

Temperature range	Operating -10° to 50°C
Power supply	110/240V, 50 to 400 Hz AC, 150VA
Case:	Completely weatherproof, meets EMC requirements - MIL STD 462D
Physical:	515mm x 380mm x 270mm 17 kg (38 lbs)
Calibration:	Recommended period 12 months
Ease of Use	Remote touch screen Integrated bag for cables / hoses

Ease of maintenance: Modular design permitting ease of accessibility to mechanical assemblies and electronic components

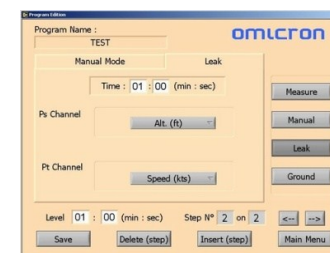
Optional

Power supply : 17 to 32V DC
Higher vacuum unit for up to 15,000ft/min and 80,000ft
Ultra low speed function
Remote Control Software for PC (Windows 2000 & XP)
Bigger Pump : Ps : 100,000ft / 50,000ft/min
Pt : 1000kts
Volume dependant

Measurement specification

Function	Range	Accuracy (1)
Altitude:	-2,300 to 60,000ft	±3ft at 0ft ±8ft at 30,000ft ±32ft at 60,000ft
	-700 to 18,000m	±1m at 0m ±2.5m at 9,000m ±10m at 18,000m
Altitude rate:	Up to ±30,000ft/min	±1%
	max.±9,150m/min	±1%
Indicated airspeed:	10 to 850kts	±2kt at 50kts ±0.14kt at 500kts ±0.07kt at 800kts
	20 to 1570km/h	±3km/h at 100km/h ±0.26km/h at 900km/h ±0.13km/h at 1480km/h
Mach No:	0.1 to 10.0 Mach	±0.002M at 0.8M/25,000ft ±0.004M at 1.7M/30,000ft
Static sensor	30 to 1200 mbar	0,007% FS (1)
Pitot sensor	30 to 3000 mbar	0,007% FS (1)
AoA sensor	30 to 1200 mbar	0,007% FS (1)

(1) linearity + repeatability + hysteresis at ambient +10° to +40°C
x1,5 for -10° to +50°C
x0,5 for ±2°C lab use





PITOT / STATIC TESTER

Our Top Range Pitot-Static Tester



⇒ **ALTIMETERS TESTING**

⇒ **AIR SPEED INDICATORS TESTING**

⇒ **VERTICAL SPEED INDICATORS TESTING**



⇒ **AIR DATA COMPUTERS TESTING**

⇒ **PRESSURE SENSORS TESTING**



⇒ **AOA TESTING FOR SPECIFIC PROBES**

⇒ **LEAK TESTER**



The ADSE 746 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

The multi-pressure outlets option can suit the more complex pitot-static-systems.

This Pitot Static Tester is designed primarily for flight-line use to cover the testing of all barometric and manometric pressure instrument systems.

The large touch screen display, with on-screen help, enables all checks to be carried out easily on the flight deck or in the cockpit, by a single operator.

The Test Set is robust and housed in a mobile weatherproof case fitted with tire wheels.

An attached bag contains the pressure hoses and electrical cables.

Accessories to suit specific applications may be supplied.

RVSM COMPLIANT

ADSE 746

Main Features

- ◆ Built-in pressure and vacuum pumps
- ◆ Liquid crystal colour display with touch sensitive screen for operator instructions/help
- ◆ Remote control unit based on Windows XP tablet PC
- ◆ 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 programmes available
- ◆ Selectable pressure units : hPa; mb; in Hg; mmHg; ft; m; kts; km/h, ft/min; hm/min and Mach number





**RVSM
COMPLIANT**



PITOT / STATIC TESTER

ADSE 746

General details

Temperature range	Operating -10° to 50°C
Power supply	110/240V, 50 to 400 Hz AC, 150VA
Case:	Completely weatherproof, meets EMC requirements - MIL STD 462D
Physical:	440mm x 420mm x 715mm 32 kg (71 lbs)
Calibration:	Recommended period 12 months
Ease of Use	Remote touch screen Wheeled case for manoeuvrability Integrated bag for cables and hoses
Ease of maintenance:	Modular design permitting ease of accessibility to mechanical assemblies and electronic components

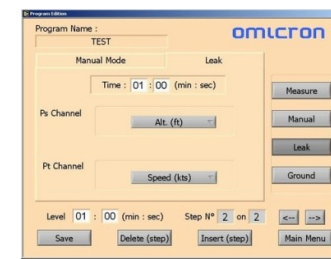
Optional

Multi-pressure outlet (4 Ps, 4 Pt & 4 AoA) variant
Rechargeable 24V battery pack (2h)
Power supply : 17 to 32V DC
Higher vacuum unit for up to 15,000ft/min and 80,000ft
Ultra low speed function
Integrated screen for UAV use
Remote Control Software for PC (Windows 2000 & XP)
Bigger Pump : Ps: 100,000ft, RC 100,000ft/min Pt : 1000kts
Volume Dependant

Measurement specification

Function	Range	Accuracy (1)
Altitude:	-2,300 to 80,000ft	±3ft at 0ft
		±8ft at 30,000ft
		±32ft at 60,000ft
	-700 to 24,380m	±1m at 0m
		±2.5m at 9,000m
		±10m at 18,000m
Altitude rate:	Up to ±50,000ft/min	±1%
	max.±15,000m/min	±1%
Indicated airspeed:	10 to 1000kts	±2kt at 50kts
		±0.14kt at 500kts
		±0.07kt at 800kts
	20 to 1850km/h	±3km/h at 100km/h
		±0.26km/h at 900km/h
		±0.13km/h at 1480km/h
Mach No:	0.1 to 10.0 Mach	±0.002M at 0.8M/25,000ft
		±0.004M at 1.7M/30,000ft
Static sensor	30 to 1200 mbar	0,007% FS (1)
Pitot sensor	30 to 3000 mbar	0,007% FS (1)
AoA sensor	30 to 1200 mbar	0,007% FS (1)
EPR Test	0,1 to 10	0,005

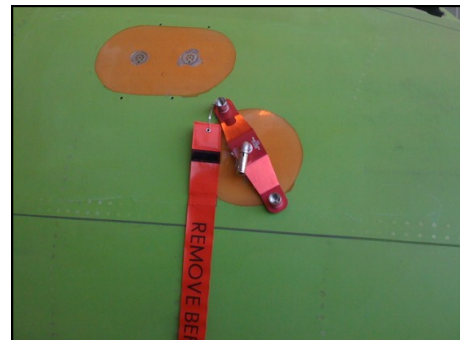
(1) linearity + repeatability + hysteresis at ambient +10° to +40°C
x 1,5 for -10° to +50°C
x 0,5 for ±2°C lab use





Pitot/Static Adaptators

For all major aircraft manufacturers including Airbus, Boeing, ATR...





AIRBUS Ps/Pt Adaptor Kit

A319 - A320 - A321



- ⇒ **KITS & PARTS**
- ⇒ **EASY TO USE**
- ⇒ **CASE WITH ROLLING SYSTEM**
- ⇒ **COLOR ADAPTORS & TUBES**



PARTS :

- Ps Single port adaptor

- Ps Double port adaptor

- Pt adaptor and it's tube holes clamp

- Ps and Pt connection cross

- Ps tubes (1m, 3m, 5m and 10m)

- Pt tubes (1m, 3m, 5m and 10m)





⇒ ALTIMETERS TESTING

⇒ AIR SPEED INDICATORS TESTING

⇒ VERTICAL SPEED INDICATORS TESTING

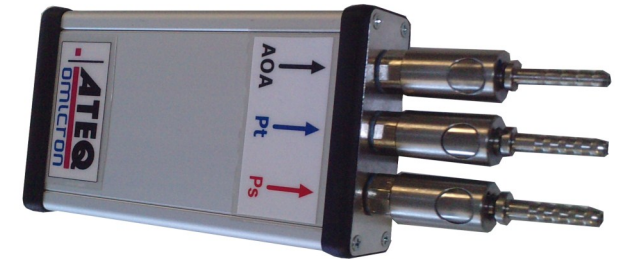
⇒ PRESSURE SENSORS TESTING

⇒ AOA TESTING FOR SPECIFIC PROBES



The EPLANE is a complete high performance multi pressure **Ps**, **Pt** and **AoA**. It's used for pitot static testers demonstration and training without any risk for on board equipments.

The EPLANE is composed of a casing in aluminium, a cable and three pneumatic plugs (Ps, Pt and AoA)



EPLANE PC

Main Features

- ◆ Pneumatic connections Ps, Pt and AoA (option)
- ◆ High accuracy, high resolution
- ◆ Selectable pressure units : hPa; mb; in Hg; mmHg; ft; m; kts; km/h, ft/min; and Mach number and needle equipment visualisation
- ◆ Software executable under Windows 2000 and XP
- ◆ USB cable for PC connection





AIRCRAFT SIMULATOR

EPLANE PC

General details

Temperature range	operating :	10° C to 40° C
Power supply	Through USB	
Case:	Robust aluminium EMC requirements	
Physical:	126mm x 107mm x 57mm 300g (0.66lbs)	
Calibration:	Recommended period 12 months	

Optional

AoA sensor

Measurement specification

Function	Range	Accuracy (1)
Static sensor	35 to 1355 mbar	1% FS
Pitot sensor	35 to 2700 mbar	1% FS
AOA sensor	35 to 1355 mbar	1% FS

(1) linearity + repeatability + hysteresis at ambient +10° to +40°C
x 0,5 for ±2°C lab use



Typical screen display for Ps / Pt





Milliohmmeter — Bonding tester for hangar and laboratory

- ⇒ **MANUAL or AUTO RANGE**
- ⇒ **FROM 1 $\mu\Omega$ to 6 Ω**
- ⇒ **0.1 A, 1 A and 10 A**
- ⇒ **4 WIRES MEASUREMENT**
- ⇒ **2000 MEASURE MEMORY**
- ⇒ **COMPACT AND VERY LIGHT (<2.8 Kg)**
- ⇒ **1500 10A MEASURES WITH A BATTERY PACK**



AX 6000

AX 6000: The right solution for bonding resistance measurement according to all current aircraft specifications on plane, helicopter, rocket, army vehicles for both production and maintenance.

AX 6000 is a very easy-to-use and versatile instrument, for applications that require up to 10 A measurement current.

AX 6000 ergonomics allow the user to use it either placed on the ground or across one's shoulder or chest.

A wide back-lit LCD display combined with an intuitive keyboard ensures simple and easy operation.

Main Features

- ▶ 3 measurement ranges: 0.1 A - 1 A and 10 A
- ▶ Resistance measurement range: 6 m Ω to 6 Ω
- ▶ Auto mode with 32 programmable test sequences or 128 programs
- ▶ Connection USB port for:
 - Parameters setting
 - Save / restitution parameters
 - Instrument cloning
 - Software updating
 - Results downloading
- ▶ 4 Measurement connector (2 on front and 2 on rear)
- ▶ IP 54 protection
- ▶ Measurement threshold adjustable
- ▶ Visual (red/green leds) and audible signal for results
- ▶ Battery :
 - Easy removable battery pack
 - 3 hours charging time with the external adaptor
 - 8 hours autonomy



Milliohmmeter — Bonding tester for hangar and laboratory

AX 6000

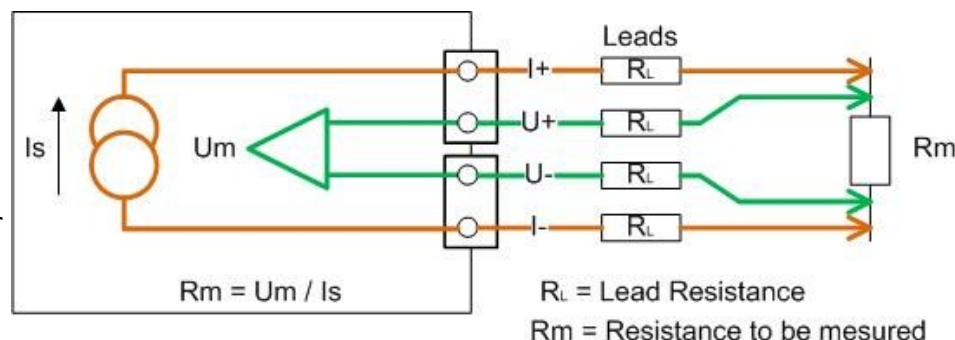
Principle of Measurement

In order to make low resistance measurement with high precision, the **AX 6000** uses the 4-wire Kelvin method.

2 wires are used to connect a constant current source to the resistance to be measured

2 additional wires are used to measure the difference of potential directly to the terminals of the device under test.

-With this method, the resistance of the measuring leads does not introduce any error.



Measurement Range

Manual Mode

CURRENT	RANGE	RESOLUTION
1 A – 10 A	6 mΩ	1 μΩ
0,1 A – 1 A – 10 A	60 mΩ	10 μΩ
0,1 A – 1 A – 10 A	600 mΩ	100 μΩ
0,1 A – 1 A	6 Ω	1 mΩ

Automatic Mode

SCALE	TEST CURRENT
1 μΩ – 600 mΩ	10 A
10 μΩ – 6 Ω	1A / 0,1A

Technical Characteristics

- **Presentation**
 Weight: : 2.8 kg
 Dimensions in mm : H 240 x D 120 x W 210
- **International Standards**
 Compliant with:
 CE: 61010-1
 CEM: 61326-1 and 55011
- **Temperature**
 Operating : 0°C to + 50°C
 Storage : -20°C to + 60°C
 Relative humidity < 30% none condensing
- **Use**
 Portable instrument which can be used on the ground or across one's shoulder or chest

Calibration resistor

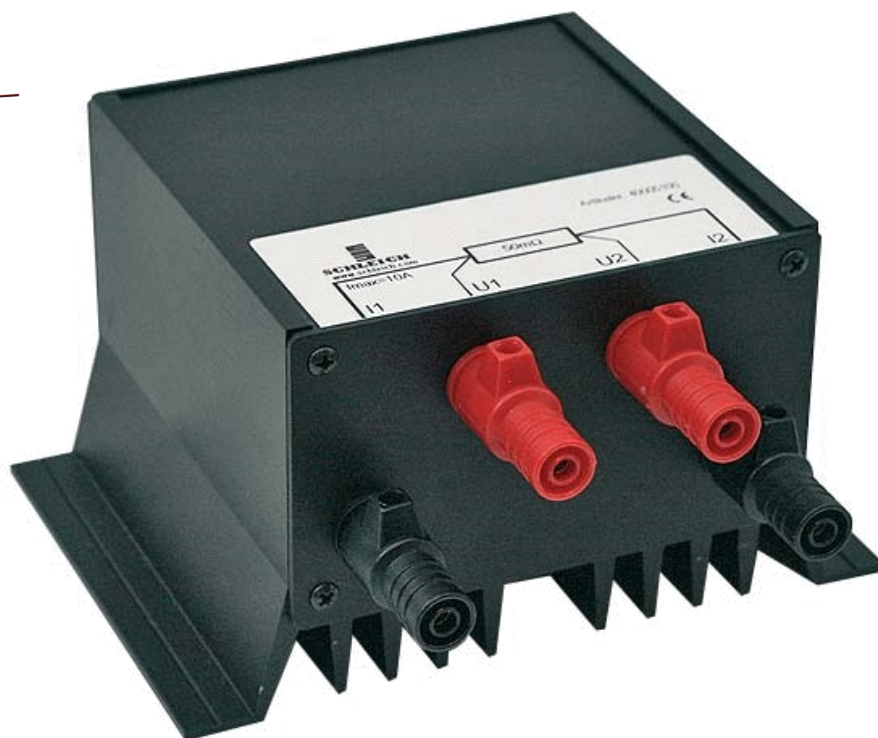
For AX 6000

The heavy-duty calibration resistors are necessary for checking and calibrating AX 6000 test.

The resistors are installed in dissipator enclosures. Connection type: 4-wire configuration. Two connections are available for the power supply and two for the voltage-drop test.

It is possible to connect both 4mm safety plugs and high-current contacts.

All resistors are delivered with calibration certificates.



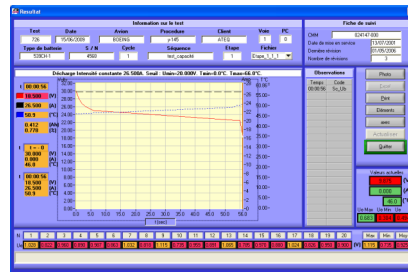
Reference	Description
E2-0231-A	Calibration resistor 1 mOhm / 10 A
E2-0232-A	Calibration resistor 10 mOhm / 10 A
E2-0233-A	Calibration resistor 100 mOhm / 10 A
E2-0234-A	Calibration resistor 10 Ohm / 10 A



- ⇒ MAINTENANCE
- ⇒ TRAINING
- ⇒ AGREEMENT
- ⇒ BATTERIES CERTIFICATION

Dimensions & weight

Masse	45 kg
Largeur	483 mm
Hauteur	177 mm
Profondeur	560mm



Options



- Individual element voltage measurement
- Deep discharge module
- Temperature battery checking



EEST 650 42-60

Main Features

- ◆ 1 channel of charge/discharge 42V/60A
- ◆ Immediate or Delayed test strat
- ◆ The Bench can store 7 sequence Of 20 stages
- ◆ Charge at I or U constant
- ◆ Discharge at I constant
- ◆ Stand by phase
- ◆ AT constant Intensity => Stop on voltage limit Min, Max and time charge and discharge
- ◆ Charge at constant voltage=> Charging stop at I min or time or ΔI
- ◆ Stop on limits - Delta V on charge at I cst
- ◆ Alarms for check level of electrolyte and end of test
- ◆ Message display or alarm when a stage is stopped
- ◆ Stage and test display
- ◆ Test time display
- ◆ U battery and I display and temperature display in option
- ◆ U Max, Min display and elements average in option
- ◆ Supplied or absorbed capacity display
- ◆ Internal temperature of power module display

Hydrogen Leak Tester

For fine leak detection



⇒ **COST EFFECTIVE SOLUTION**

⇒ **VOLATILE GAS WITH LOW VISCOSITY**



⇒ **LEAK LOCALIZATION**

⇒ **INDEPENDANTE OF TEST VOLUME AND TEMPERATURE**



The H 6000, a new comer in the ATEQ range of leak detectors, is one of the finest gas tracer and hydrogen leak detectors on the market today.

This gas is less expensive than Helium gas.

Furthermore, it's a volatile, non-toxic and non-poisonous gas with any environmental impact.

The H 6000 is equipped with all features for easy integration in industrial process and laboratory one.

The part is filled with hydrogen gas 5% in Nitrogen gas.

For localization, the leaking gas is attracted in a suction probe to the sensor.



H 6000

Main Features

- ◆ Detection of leaking gas traces
Range: 5.10-6 Mbar l/s to 1.10-3 mbar l/s
- ◆ Generates Suction Flow control
- ◆ 128 programs
- ◆ IP 54 protection
- ◆ Internal memory: 2 Go
- ◆ Visual (red/green leds) and audible signal for results
- ◆ USB port
- ◆ Battery:
 - 12VDC 4400 mA/h
 - Lithium Polymer technology
 - Easy removable battery pack
 - Autonomy 8 hours
- ◆ Bag for H6000



ALTITUDE CONTROLLER LEAK TESTER *For hangar and tarmac*



⇒ MANO-CONTACT TESTS



⇒ ALTITUDE SIMULATION

⇒ LEAK TESTER



The ADSE 712 is a single channel generator that simulates an altitude to test different pneumatic equipment for aerospace applications or equipment reacting to barometric constraints.

It can test leaks in pneumatic circuits, functions linked to the depressurization of the aircraft cabin, etc...

The ADSE 712 is presented as a small light-weight case containing all vacuum and pressure generation, measurement and regulation functions.

All operator interface, management and report functions are presented on the front panel of the equipment.

The ADSE 712 is driven with a single button, to launch a test program predefined in our workshop. The parameters of this program (test time, vacuum or altitude value and unit, leak test time, reported



ADSE 712

Main Features

- ◆ Only one generation channel for pressure or vacuum
- ◆ Integrated pumps
- ◆ Regulation managed by micro controller
- ◆ System operation with a single button
- ◆ Leak rate measurement
- ◆ Secured for use by occasional users

Options

- ◆ Choice of altitudes to simulate of leak measurement time
- ◆ Serial link for driving the system with a computer
- ◆ Pressure generation to test Pitot probes



The only aircraft our instruments cannot test

