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 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; mm Hg; ft; m; kts/h; ft/min; km/h; Mach number

General details
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
IEEE488 digital interface
Ps & Pt outlet at the back of the bench
Vertical housing
Low range Pt sensor: 350 kts max for better accuracy
Pneumatic connectors JIC37 (AN4) or Staubli

Measurement specification in standards conditions

<table>
<thead>
<tr>
<th>Function</th>
<th>Range</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Altitude</td>
<td>3,000 to 60,000 ft</td>
<td>±1.5 ft at 0 ft</td>
</tr>
<tr>
<td></td>
<td>(up to 40,000 ft optional)</td>
<td>±4 ft at 30,000 ft</td>
</tr>
<tr>
<td></td>
<td>(up to 100,000 ft optional)</td>
<td>±16 ft at 60,000 ft</td>
</tr>
<tr>
<td>Altitude rate</td>
<td>± 0 to 6,000 ft/min</td>
<td>± 1%</td>
</tr>
<tr>
<td></td>
<td>(up to ±60,000 ft/min optional)</td>
<td>± 1%</td>
</tr>
<tr>
<td>Indicated airspeed</td>
<td>10 to 800 kts (up to 1000 kts optional)</td>
<td>± 1% at 50 kts (± 0.5 kts at 50 kts optional)</td>
</tr>
<tr>
<td></td>
<td>(up to 1000 kts optional)</td>
<td>± 1% at 350 kts (± 0.2 kts at 350 kts optional)</td>
</tr>
<tr>
<td>Mach N°</td>
<td>0.1 to 4.0 Mach (0.1 to 10 Mach optional)</td>
<td>± 0.001M at 0.8M/25,000 ft</td>
</tr>
<tr>
<td></td>
<td>(0.1 to 10 Mach optional)</td>
<td>± 0.002M at 1.7M/30,000 ft</td>
</tr>
<tr>
<td>Static sensor</td>
<td>30 to 1200 mbar</td>
<td>± 0.01% FS</td>
</tr>
<tr>
<td>Pitot sensor</td>
<td>30 to 3000 mbar</td>
<td>± 0.01% FS</td>
</tr>
<tr>
<td>AoA sensor</td>
<td>30 to 3000 mbar</td>
<td>± 0.01% FS</td>
</tr>
</tbody>
</table>

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