



VDAS® AFA7

PITOT STATIC TRAVERSE (DIGITAL)

A traversing Pitot-static tube with electronic position measurement for use with TecQuipment's Subsonic Wind Tunnels (AF1300, AF1450S, AF1600S).



- Included with the AF1450S and AF1600S as standard
- Ancillary to TecQuipment's subsonic wind tunnel (AF1300)
- Mounts either upstream or downstream of a test model to measure pressures across the wake of a model
- Accurate digital display of position
- Zero facility allows the starting point of an experiment to be set in any position
- Works with TecQuipment's Versatile Data Acquisition System (VDAS®) to give accurate real-time data capture, monitoring, and display on a computer

PITOT STATIC TRAVERSE (DIGITAL)

DESCRIPTION

The Pitot Static Traverse is an ancillary to TecEquipment's modular Subsonic Wind Tunnels (AF1300, AF1450S and AF1600S).

A Pitot static tube mounts in the working section of the wind tunnel, either upstream or downstream of the position of the test model. This allows students to do wake traverses, downstream of a model. The vertical position of the tube, which is adjustable, is displayed on a digital indicator.

The digital indicator position can be set to zero in any position. This allows the datum or starting point of an experiment to be defined by the user.

To display differential pressure, the Pitot static tube connects to a manometer. Alternatively, pressures can be measured using one or more of the following optional TecEquipment instruments:

- Differential Pressure Transducer module (AFA5)
- Dual Digital Pressure Display module (DP6)
- Tilting Multi-tube Manometer (AFA1)
- 32-Way Pressure Display module (AFA6)

The pressure signals from the Pitot Static Traverse may be output to TecEquipment's optional Versatile Data Acquisition System (VDAS®) to allow computer-based data acquisition and display. Using VDAS® enables accurate real-time data capture, monitoring, display, calculation and charting of all relevant parameters on a suitable computer (not included). For pressure measurement VDAS® will require the optional AFA5, DP6 or AFA6.

STANDARD FEATURES

- Supplied with comprehensive user guide
- Five-year warranty
- Manufactured in accordance with the latest European Union directives
- An ISO 9001 certified company

ANCILLARY FOR

- Subsonic Wind Tunnel (AF1300, AF1600S)
- Cylinder Model (AF1300a)
- NACA 0012 Aerofoil With Tappings (AF1300b)
- NACA 2412 Aerofoil With Variable Flap (AF1300c)
- NACA 0012 Aerofoils (AF1300d)
- Flat Plate Drag Model (AF1300e)
- Aircraft Model - Low Wing (AF1300g)
- Aircraft Model - High Wing (AF1300h)
- Three-Dimensional Drag Models (AF1300j)
- S1210 Aerofoil Model (AF1300l)

OPERATING CONDITIONS

OPERATING ENVIRONMENT:

Laboratory

STORAGE TEMPERATURE RANGE:

-25°C to +55°C (when packed for transport)

OPERATING TEMPERATURE RANGE:

+5°C to +40°C

OPERATING RELATIVE HUMIDITY RANGE:

80% at temperatures < 31°C decreasing linearly to 50% at 40°C

SPECIFICATION

TecEquipment is committed to a programme of continuous improvement; hence we reserve the right to alter the design and product specification without prior notice.

DIMENSIONS:

Packed: 0.01 m³

WEIGHT:

Packed: 3 kg

TOTAL TRAVEL:

300 mm