



VDAS® AF1300X

PITOT STATIC TRAVERSE (DIGITAL)

A traversing Pitot-static tube with electronic position measurement for use with TecQuipment's Subsonic Wind Tunnel (AF1300)



- Optional 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 Tunnel (AF1300).

It is a Pitot-static tube that 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 supplied with the wind tunnel. Alternatively, pressures can be measured using one or more of the following optional instruments:

- Tilting Multi-Tube Manometer (AF1300r)
- Differential Pressure Transducer module (AF1300v)
- 32-Way Pressure Display module (AF1300w)

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 this will require the optional Differential Pressure Transducer module (AF1300v) or 32-Way Pressure Display module (AF1300w).

STANDARD FEATURES

- Supplied with comprehensive user guide
- Five-year warranty
- Manufactured in accordance with the latest European Union directives

ANCILLARY FOR

- Subsonic Wind Tunnel (AF1300)
- 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)

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

DIMENSIONS:

Packed: 0.01 m³

WEIGHT:

Packed: 3 kg

TOTAL TRAVEL:

300 mm