

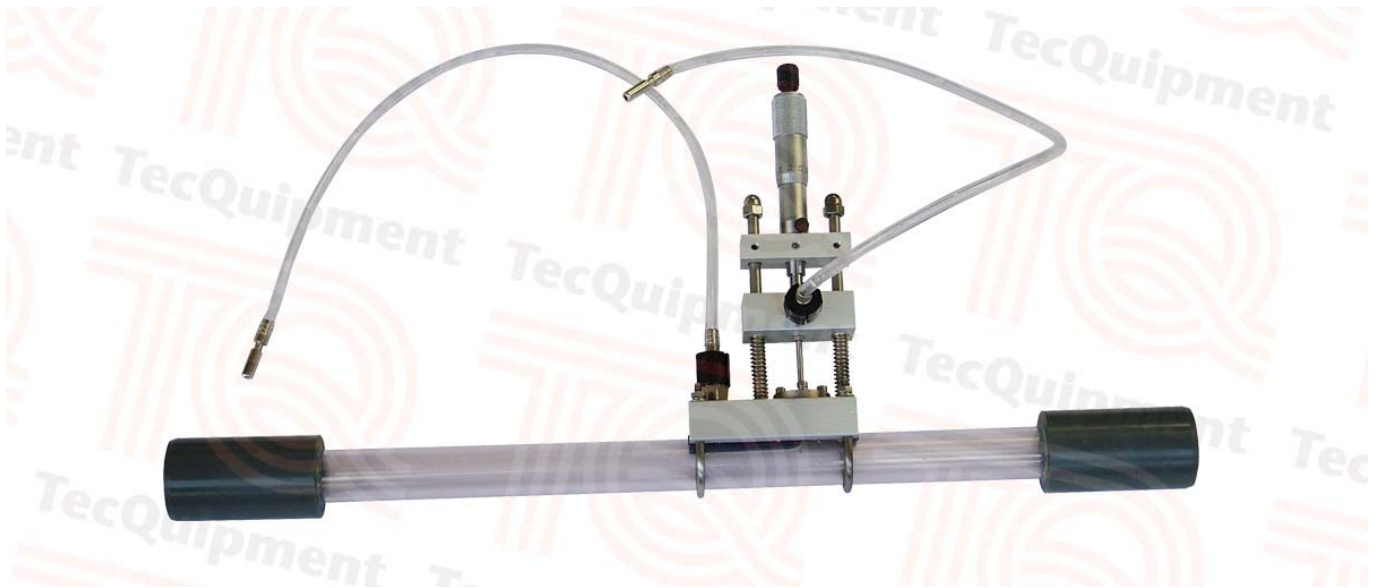


Fluid Mechanics

H40a

Pitot Tube

***Pitot tube flow meter for use with the
Flow Meter Calibration unit (H40)***



- Popular flow meter for use with TecEquipment's Flow Meter Calibration unit (H40)
- Cost-effective and simple to use
- Unique 'quick-change' adaptors and pressure connections
- Shows the accuracy and use of a pitot tube flow meter
- Shows the boundary layer effect and the fluid velocity profile
- Micrometer head for precise adjustment

H40a

Pitot Tube

Description

A popular flow meter for use with TecEquipment's Flow Meter Calibration unit (H40). It shows the accuracy and use of a Pitot tube flow meter.

This flow meter quickly and easily fits into place between the adaptors in the base unit of the Flow Meter Calibration unit. The manometers of the calibration unit show the pressure differences at the flow meter and across the overall flow meter assembly.

A precision micrometer head allows the user to accurately adjust the position of the Pitot tip that traverses across the inside of the pipe. The tip measures the change in pressure across the pipe for a given flow rate. A second tapping in the pipe wall measures the 'static' pressure. Plots of these pressures show the velocity profile in a pipe and explains the 'boundary layer' and surface friction in pipes and flow channels.

Standard Features

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

Experiments

- Accuracy of pitot tube flow meters
- Losses and k value
- Calculation of the coefficient of discharge
- Velocity profile

Essential Base Unit

- Flow Meter Calibration (H40) – with H1 or H1D

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

Specifications

Nett dimensions:
484 mm x 230 mm x 100 mm and 0.75 kg

Approximate packed dimensions:
0.02 m³ and 1.5 kg

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