

Product Name :
Pitot Static Tube Apparatus

Product Code :
DM845



Description :

Pitot Static Tube Apparatus

Technical Specification :

A Pitot Tube is used to measure the local velocity at a given point in the flow stress. A pitot tube of standard design made of copper/SS is supplied and is fixed below Vernier scale. The Vernier scale is capable to measure the position of Pitot Tube in transparent pipe section.

The pipe has a flow control valve to regulate the flow. A U-tube manometer is provided to determine the velocity head. Present set-up is self-contained water re-circulating unit, provided with a sump tank and a centrifugal pump etc.

Flow control valve and by-pass valve are fitted in water line to conduct the experiment on different flow rates. Flow rate of water is measured with the help of measuring tank and stopwatch.

Experiments

To find the point velocity at the center of a tube for different flow rates of water and calibrate the Pitot Tube.
To plot velocity profile across the cross section of pipe

Utilities Required

Electric supply 0.5 kW, 220V AC, Single Phase

Water supply Tap water connection & BSP Distilled water @ 60 liters (optional)

Floor Area with Drain facility

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