

Product Name :
Fluid Statics and Manometry

Product Code :
NLAB-MECHANICALAB230015



Description :

Fluid Statics and Manometry

Technical Specification :

The has been designed to study static fluids and manometer. It provides the user an introduction to the behavior of liquids under Hydrostatic conditions (fluids at rest) and to the application of those Principles in the pressure measurement by using different monomeric Tubes. It allows the user to demonstrate the properties of Newtonian fluids and to understand a wide range of basic principles before studying Fluids in motion.

FEATURES:

To study the basic principles of hydrostatics and to demonstrate

The behavior of liquids at rest.

To use manometer tubes to measure differential pressure.

To use a manometer tube to measure head.

To use a 'U' tube manometer to measure pressure differences in a gas (air over liquid).

To use a U-shaped manometer for determining the differential pressure.

To use liquids with different densities to change the 'U' tube manometer sensitivity.

To use an inverted pressurized 'U' tube manometer to measure pressure differences in a liquid.

To use an inclined manometer with different inclinations.

Level measurement using Vernier hook and point gauge.

To measure the liquid level using a scale.

Demonstrating that the level of a free surface is not affected by the size or shape of the tube.

Use of a piezometric tube to measure pressure.

Observing the effect of a liquid in motion (losses due to friction).

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SPECIFICATIONS:

The module is mounted on an aluminum /MS structure and painted steel Panels

Vertical tank Diameter: 100 mm and height: 575 mm)

Vertical manometer tubes (460 mm length)

One "U" shape vertical tube.

Two parallel vertical tubes.

One vertical tube with variable section.

One vertical tube with a pivot that allows it to incline from 0 To 90°.

These tubes can be used individually or in combination for the Different demonstrations.

Vernier hook and point gauge.

Piezometric tube.

Manual air pump.

Purge valve.

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