## Product Name :

Hydrostatic Pressure

## Product Code :

NLAB-MECHANICALAB230019


## Description :

## Hydrostatic Pressure

## Technical Specification :

The module consists of a quadrant assembled to the arm of a scale that swings around an axis. When the quadrant is immersed in the water tank, the force that acts on the flat rectangular front surface exerts a momentum with respect to the supporting axis. The swinging arm is fitted with a tray and an adjustable counter balance. The tank has adjustable supporting legs for leveling. It has a drainage valve. A graduated scale indicates the level reached by the water inside the tank.

This assembly is mounted on top of an acrylic tank, which may be leveled by adjusting screwed feet. Correct alignment is indicated on a circular spirit level mounted on the base of the tank.

The Hydrostatic Pressure accessory has been designed to determine the static thrust exerted by a fluid on a submerged surface and enables comparison of the measured magnitude and position of this force with simple theory.

Hydrostatic Pressure Apparatus

FEATURES:

Determination of the center of pressures with an angle of $90^{\circ}$, partially submerged.
Determination of the resultant force with an angle of $90^{\circ}$, partially submerged.

Determination of the center of pressures, angle <> $90^{\circ}$ partially submerged.
Determination of the equivalent force with an angle <>90 ${ }^{\circ}$ partially submerged.
Determination of the center of pressures with an angle of $90^{\circ}$ totally submerged.
Determination of the resultant force with an angle of $90^{\circ}$ totally submerged.
Determination of the center of pressures, angle $<>90^{\circ}$ totally submerged.
Determination of the resultant force, angle <>90 ${ }^{\circ}$ totally submerged.

Balance of momentum.

## SPECIFICATION:

Tank capacity: 5.5 Itr.

Distance between the suspended masses and the support point: 285 mm .

Area of the section: 0.007 m 2 .
Total depth of the submerged quadrant: 160 mm .

Height of the support point on the quadrant: 100 mm .

A set of masses of different weights is supplied (4of100gr, 1of50gr, 5of 10 gr, and 1 of 5 gr ).

## Naugralabequipments

Website: www.naugralabequipments.com, Email: sales@naugralabequipments.com Address: 6148/6, Guru Nanak Marg,Ambala Cantt,Haryana,India. Phone: +91-9896600003

