

CENTRE OF PRESSURE Mod. HB2/EV



DESCRIPTION

The module enables to determine the hydrostatic thrust caused by a fluid on a submerged surface. It consists of a Plexiglas box containing a toroidal shaped unit mounted on a balance arm. When the quadrant is immersed in the tank, the force caused by the water on the rectangular surface of the quadrant gives rise to a moment with respect to the fulcrum of the scales that provokes a variation in the arm inclination. Some counterweights can be positioned at the end of the arm in order to bring it in a horizontal position. The value of hydrostatic thrust can be determined from the applied weights. A graduated scale drawn on the quadrant enables to determine the hydrostatic thrust of the water when the water level varies inside it.

TRAINING PROGRAM:

- Determining the centre of hydrostatic pressure on a surface completely or partially submerged and comparing with the theoretical position
- Determining the hydrostatic thrust on a plain surface completely or partially submerged and comparing with the theoretical position

TECHNICAL CHARACTERISTICS:

- Capacity of plexiglas tank: 6 litres
- Distance between suspended mass and fulcrum: 275 mm
- Inside diameter of quadrant: 100 mm
- Outside diameter of quadrant: 200 mm
- Section of the quadrant: 75 x 75 mm
- Height of fulcrum above quadrant: 100 mm
- Weights supplied: 4 x 100 gr, 1 x 50 gr, 5 x 20 gr, 2 x 10 gr

Dimensions: 260 x 420 x 320 (h) mm
Weight: 6 kg

SUPPLIED WITH

**THEORETICAL-EXPERIMENTAL
HANDBOOK**



OPTIONAL

SPREADSHEET SOFTWARE
For fluid mechanics equipment
Mod. SW-HB2/EV

