



Equipment designed for the study of fluid static and pressure measurement with different types of piezometric tubes and level measuring elements such as graduated scales and limnimeter.

The equipment has a transparent deposit, in which we will pour water, and through the different valves and pipes, the water is sent to the different columns.

One of the columns of water has a system to be able to tilt it, so that you can clearly visualize the effect of different inclinations.

In both columns and in the tank, there is a graduated scale to directly visualize the height of the water.

In addition, a limnimeter is included for precise measurement of the level of water.

The equipment is delivered with a complete workbook.

### LEARNING OBJECTIVES

A wide range of practices and experiences can be realized, some of which are listed below:

- Study and verification of the hydrostatic paradox.
- Comparison between absolute and relative manometers.
- Use of the piezometric tube.
- Measurement of pressures with the following types of manometers:
  - in "U"
  - in "U" inverted
  - inclined
  - differential
- Use of a limnimeter to measure the water level.
- Use of graduated scales to determine the water level.
- Study of the influence of the air inside the manometers.
- Study of load losses.

### TECHNICAL DATA

#### Tank:

- Storage capacity 4l.
- Maximum height 560 mm.
- Inner diameter of the tank 94 mm.

#### Manometers:

- Manometer in U. Scale 460 mm.
- Piezometric tubes. Scale 460 mm.
  - 2 parallels.
  - Variable section.
- Inclined manometer, scale 460 mm, 4 positions:
  - 5°.
  - 30°.
  - 60°.
  - 90°.

#### Other elements:

- Limnimeter: Reading maximum capacity 150 mm.
- Non-return valve.