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Product Name :
Hydraulic Flow Channel Demonstrator

Product Code :
LBNY-0005-10300070



Description :

The channel is totally transparent so it allows an optimum visualization of the hydraulic flow. The purpose is to study the flow behavior in open channels and closed pipes, by realizing some experiments in both conditions. These points are connected to the 6 tubes manometer. By floodgates, it is possible to increase water volume in the inlet or outlet tanks. In order to carry out experiments in a closed chamber, the module includes a cover for hermetically seal. Pitot tubes are arranged along the whole length of channel, so it allows measuring the working pressure in 6 points. The equipment can be used stand alone or in conjunction

Open channel:

1. Study of water flows through open channels identifying variables like:

Speed at different points of the cross-sectional area.

Water height

2. Study of constant water flow, gradually varied flow and behavior of surface profiles.

3. Study and utilization of thin edged weir for flow measurements.

Rectangular weir without lateral contraction.

4. Study and utilization of broad crested weir for flow measurements.

Rectangular weir.

5. Analysis and study of discharge under a gate.

Vertical weir

6. Study of jump spillway

Technical Specification :

Technical Data:

Channel large: 1130mm

Channel width: 77mm
Channel depth: 150mm.



Laboratory Instrument India