

Pipe Surge & Water Hammer Apparatus



Product Categories: [Engineering Equipment](#), [Hydraulic Lab](#)

Product Page:

<https://www.labappara.com/product/pipe-surge-water-hammer-apparatus/>

Product Description

Pipe Surge & Water Hammer Apparatus

DESCRIPTION:

The equipment is self-contained and is a close circuit system. It consists of two test sections, one for pipe surge and other for water hammer phenomenon. The whole system incorporates a head tank, measuring tank, sump tank, circulating pump, a lever operated gate valve and flow control valve. The water enters the test pipe via the constant head tank and discharges into the measuring tank. Two electronic Pressure sensors with current output of 4 - 20 mA are installed on the unit. The present set-up has a facility to interface the system with computer which enables to log the experimental data using computer. The educational software and data-logging package has been developed for unit. This software is compatible to interfacing unit designed by Superb Technologies. This software package provides a comprehensive educational software environment within which the investigations can be performed. This software is capable to tabulate the sample readings according to the requirement of experiment under study and results obtained can be compared. The real time data acquisition can be done by interfacing the set-up

with computer using software. Software allows the user to have control on data logging, printing the stored data, preparing spread sheets in Excel.

TECHNICAL DETAILS:

Test Sectio Stainless Steel

Size: 20 mm ID (approx.), Length : 3m : Materialm (approx.).

Surge Shaft : Material Clear Acrylic.

Size : 40 mm ID (approx.),

Height : 800 mm (approx.) with graduated scale.

Water Circulation : Centrifugal Pump

Flow Measurement : Flow Sensor Output 4-20 mA.

Constant Head Tank : Material Stainless Steel, Suitable Capacity.

Sump Tank : Material Stainless Steel, Suitable Capacity.

Pressure Measurement : Pressure Sensor 0-7 Bar, output 4-20 mA (For Water Hammer)

Level Measurement : Level sensor, output 4-20 mA (For Pipe Surge)

Control Panel consists of: Standard make On/Off Switch, Mains Indicator, etc.

An ENGLISH instruction manual will be provided along with the Apparatus

The whole set-up is well designed and arranged on a rigid structure painted with industrial PU Paint.