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Product Name :
Hydroelectric Trainer

Product Code :
LBNY-0005-18900012



www.laboratoryinstrumentindia.com

Description :

This module provides a real possibility of having the student use the kinetic energy of water to operate a turbine and produce electricity in real time. The multiple lights and the control knobs provide various load levels on the turbine to simulate brown-outs in cities. The Hydroelectric Trainer Module allows students to convert water power to electricity like many large scale hydro-power plants. Running water from rivers and waterfalls were the primary energy sources for various societies that existed centuries ago. The module has a turbine and an adjustable pressure control that emulates the flow and volume of water. The trainer panel has all parts and controls that allow a student to harness the electricity for different uses.

Technical Specification :

Equipment and Parts:
Hydroelectric Generator
Pump Assembly
Pressure Adjustment
Load Board Assembly
Drain Hose
Water Storage Tank
Additional Nozzle.

Trainer Rating:

Input Water: 3 GPM

Input Power: 115 volts AC (1 amp)

Output Power: 0-20 volts DC.

Meters and Controls:

2.5 Voltmeter: Output 0-25 volts
2.5 Ammeter: Output Current 0-5 Amps
2.5 Ammeter: Field Current 0-3 Amps
2.5 Water Pressure Gauge: 0-160 PSI
Load Adjust Rheostat
Spare Nozzle for Additional Tests
Field Adjust Rheostat
Eight (8) 1 Panel Lights
Output Terminals
Flowmeter Option
Load Display Selector Switches
Load Board Assembly, for output measurements.



Laboratory Instrument India