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**Product Name :**  
Flow Process Training System

**Product Code :**  
LBNY-0005-1850007



#### **Description :**

The self-contained unit can do many experiments, but it can also connect to other products in the range for extra experiments. For cascade control of flow and pressure, it can link to the optional Pressure Process Training System. The Flow Process Training System is a compact and mobile unit for a wide range of experiments in flow control. It gives students a greater understanding of the stability of simple control systems. For distributed control, it can connect to the optional Computer Control System. For cascade control of flow and level, it can link to the optional Level Process Training System.

#### **The main parts are:**

- A gap-type (rotameter) flow meter
- Fixed orifice and pressure transmitter
- Industrial controller with auto-tune feature
- Two-channel chart recorder
- Three-speed pump
- Pneumatic control valve
- Reservoir.

#### **Technical Specification :**

#### **Experiments:**

- The principles of loop control and the calibration and tuning of controllers, transmitters, converters and valves
- Proportional, integral and derivative control
- Cascade control of pressure and flow, and level and flow
- Setting up and demonstrating automatic control

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Quadratic flow laws and square root extraction  
Calibration of an orifice flow meter with a differential pressure transmitter.



**Laboratory Instrument India**