

**Product Name :**  
Process Control Trainer**Product Code :**  
ELB-PCER0001**Description :**

Process Control Trainer

**Technical Specification :****Controller Section Specifications:**

- Computer Interface Panel for connection to PC through parallel port, V to I function block, I to V function block, USB converter
- Instrumentation Power Supply cum Multi Channel DPM Panel
- Thyristor Actuator cum Signal Conditioning panel
- PC Based Digital PID Controller with online monitoring / data acquisition / PID software
- Operating Modes: Simulator Mode, Process Monitoring Mode, PID Controller Mode

**Hardware:**

- Controlled Medium: Air for pressure and flow, water for temperature and air for cooling
- Storage Tank: 10 ltr plexiglass
- Process Tank: 5 ltr stainless steel tank with temperature and pressure sensors attachment
- Electronic Sensors: Piezo-resistive pressure sensor, PT100 temperature sensor, flow turbine flow sensor
- Control Valve: Pneumatically operated air to close
- Rotameter
- Generation Distribution Pump
- Bourden Gauges

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- Manual SS Valves
  - SS Piping Material
  - Air Filters Regulators
  - Needs 10 Bar air compressor

**Experiments:**

- Study of temperature control loop: open response closed loop response with P, PI, PID
- Study of pressure control loop: open response closed loop response with P, PI, PID
- Study of air flow control loop: open response closed loop response with P, PI, PID
- Study of control valve (gain scheduler hysteresis), V to I converter, I to P converter
- Study of ratio control loop
- Study of cascade control loop
- Study of level ON / OFF control loop
- Study of feed - forward control loop

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