

Product Name :
Multi-Process Control Trainer

Product Code :
NLAB-ENGINEERINGLB54015



Description :

Multi-Process Control Trainer

Technical Specification :

Technical Description:

- This control trainer is a comprehensive unit featuring only industrial components.
- It contains a transparent tank for liquid-level and pressure control, a corresponding pipe for flow control, and a two-circuit system with a plate heat exchanger for temperature control.
- Alternatively, a pneumatically operated control valve or a speed-controlled pump is used as an actuator.
- The parameters of the digital controller can be adjusted over wide ranges so that a large number of different process conditions can be investigated.
- Electronic sensors measure the individual process values.
- A three-channel recorder with current inputs is included for recording the control behavior over time.

Learning Objectives / Experiments:

- Introduction to the layout and function of a control loop.
- Open and closed control loop.
- Critical amplification.
- Liquid-level control.
- Flow control.
- Pressure control.
- Temperature control.
- Cascade control: level-flow, temperature-flow.
- Different actuators: control valve, pump with variable speed.
- Defining the parameters of a controller after.

Features:

- Industrial microprocessor-based controller with free parameter setting; 4 controlled variables.
- Continuous, on-off and cascade control.
- Usage of standard industrial components.
- 3-channel chart recorder.
- Process control software optionally available.

We are well-known manufacturers, OEM suppliers of Multi-Process Control Trainer for Applied Machines. Contact us for high quality Multi-Process Control Trainer for Applied Machines for schools lab, college lab, universities, research labs, various teaching and workshop training laboratories and industries in India.

Naugralabequipments

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