

Product Name :
Industrial Process Control Rig

Product Code :
NLAB-ENGINEERINGLB54016



Description :

Industrial Process Control Rig

Technical Specification :

Technical Description:

- This completely self-contained rig facilitates comprehensive experiments from the areas of process control and control systems.
- Using the rig, all aspects of the level, flow and temperature controls can be studied.
- Cascade controls can also be investigated.
- Additionally, it is possible to simulate and find six different faults.
- The core of the system is a digital universal controller.
- Its function, parameter settings, and optimisation are studied in detail.
- The rig is assembled exclusively from industrial components and includes a programmable logic controller suitable for numerous applications.

- The unit also facilitates the visualisation of the process.
- The visualisation is realised using a PC and software (PC available as accessory).

Experiments:

- Introduction to digital universal controllers.
- Layout, operation, parameter setting.
- Controller adjustment according to.
- Assessment of control quality.
- Liquid-level control.
- Flow control.
- Temperature control.
- Cascade control, level/flow.
- Cascade control, temperature/flow.
- Fault circuits.

Features:

- Real control processes using the parameters level, flow and temperature.
- Programmable logic controller (PLC).
- Usage of industrial components.
- Process visualization software.

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