

Product Name :
Stirred Tank Test Stand

Product Code :
NLAB-ENGINEERINGLB54014



Description :

Stirred Tank Test Stand

Technical Specification :

Technical Description:

- This demanding test stand is used to perform experiments on a multivariable system often found in practice.
- In this particular example, the interacting variables temperature and level are to be controlled in a stirred tank.
- After the heated product leaves the stirred tank, heat is transferred to the feed by a heat exchanger.
- A pneumatic control valve controls the tank level via product discharge.
- The double-walled tank is electrically heated.
- The system has a closed water circuit.

The test stand contains high quality instrumentation.

- The controllers have a Profibus DP interface which allows the test stand to be monitored with optional process control software RT 650.60.
- This software can also be used to record the process variables and to tune controller parameters via PC.

Learning Objectives / Experiments:

- Demonstrating a multivariable system.
- Determining system parameters.
- Realising non-interacting controlled variables.
- Comparing the different controller types: P, PI and PID and their suitability.
- Recording step responses.
- Investigating control quality.
- Investigating stability.

Features:

- Multivariable control system.
- Strategies to realise non-interacting systems.
- Controller layout and stability.
- High-quality equipment with industrial components.
- Profibus DP.

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