⊚ LAB ENGINEERING

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Product Name : Computerized Level Control Trainer

Product Code : MLE0003



Description :

Computerized Level Control Trainer

Technical Specification :

The Trainer provides a comprehensive experimental introduction to the fundamentals of control engineering using an example of level control.

A pump delivers water from a storage tank to the transparent level-controlled tank.

The liquid level is measured by a pressure transducer installed at the base of the level-controlled tank.

The controller used is a state-of-the-art digital industrial controller.

The actuator in the control loop is a pneumatically operated control valve with an electro-pneumatic positioner. A ball valve in the outlet line enables defined disturbance variables to be generated.

The controlled variable X and the manipulating variable Y are plotted directly on an integrated 2-channel line recorder.

Alternatively, the variables can be tapped as analogue signals at lab jacks on the switch cabinet.

This enables external recording equipment, such as an oscilloscope or a flatbed plotter, to be connected. Process control software is optionally available.

FEATURES:

Experimental introduction to control engineering using an example of level control

Construction of the system with components commonly used in industry

Digital controller with freely selectable parameters: P, I, D and all combinations

Level measurement by pressure sensor

SPECIFICATION:

Storage tank: 30L

Centrifugal pump :

Power consumption: 250W Flow rate: 150L/min Head: 7m Speed: 2800min-1 Level-controlled tank : 7L Level: 0...0,6m Pressure sensor: 0...100mbar Pneumatically operated control valve DN 20 Kvs: 4,0m3/h Reference variable: 4...20mA Nominal stroke: 15mm Characteristic curve equal-percentage Line recorder : 2x 4...20mA Feed rate: 0...7200mm/h, stepped Controller : Process variables X, Y as analogue signals: 4...20mA Power required for operation : 230V, 50Hz, 1 phase 230V, 60Hz, 1 phase

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