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**Product Name :**  
Computerized Level Control Trainer

**Product Code :**  
SCHOOL-MES880003



**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<sup>-1</sup> Level-controlled tank : 7L Level: 0...0,6m Pressure sensor: 0...100mbar Pneumatically operated control valve DN 20 Kvs: 4,0m<sup>3</sup>/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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