Email :
sales@schooleducationalinstruments.com
Phone: +91-0171-2601773

Product Name : Computerized Flow Control Trainer	**Product Code :** SCHOOL-MES880002

Description :

Computerized Flow Control Trainer

Technical Specification :

The Trainer provides a comprehensive experimental introduction to the fundamentals of control engineering using an example of flow control. A pump delivers water from a storage tank through a piping system. The flow rate is measured by an electromagnetic sensor, which permits further processing of the measured value by outputting a standardized current signal. A Rota meter indicates the flow rate. The controller used is a state-of-the-art digital industrial controller. The actuator in the control loop is a control valve with electric motor operation. 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. FEATURES: Construction of the system with components commonly used in industry Digital controller with freely selectable parameters: P, I, D and all combinations Experimental introduction to control engineering using an example of flow control Fundamentals of control engineering Real industrial control engineering components: controllers, transducers, actuators SPECIFICATION: Storage tank: 30L Centrifugal pump : Power consumption: 250W Flow rate: 150L/min Head: 7m Speed: 2800min-1 Rota meter: 0…1960L/h Electromagnetic flow rate sensor: 0…6000L/h Control valve with electric motor : Kvs: 5,7m3/h Stroke: 5mm Characteristic curve equal-percentage Valve-opening position sensor: 0…1000? 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

NAUGRA®

School Educational Instruments

Website: www.https://www.schooleducationalinstruments.com/, **Email:** sales@schooleducationalinstruments.com

Address: Ambala Cantt, Haryana, India **Phone:** 91-0171-2643080