LAB ENGINEERING

Email :
purchase@elabengineeringequipments.com
Phone: +91-9811375383

Product Name :	**Product Code :**
Computerized Level Control Trainer	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