

Product Name :
Level and Flow Process Control

Product Code :
CE541



Description :

Level and Flow Process Control

Technical Specification :

Level & Flow Process Control

The Level & Flow Process Control Trainer is a single loop system allowing the study of the principles of process control, using liquid level and flow rates as the measured process variables. The system is a completely self-contained, low pressure flowing water circuit supported on a benchtop-mounted panel, making it suitable for individual student work or for group demonstrations. It comprises a dual compartment process tank, linked to a sump tank by manual and solenoid operated valves. Water is pumped through the system, via a variable area flow meter and motorised control valve. Level is measured in the process tank. Flow is measured through an optical pulse flowmeter.

Curriculum Coverage

- Flow & level familiarisation & calibration
- Interface familiarisation & calibration
- Controller familiarisation & calibration
- Float Level Transmitter
- Pulse Flow Transmitter
- On-Off Control
- Study of P, PI & PID Control of Level & Flow
- Tuning PID Controllers
- Advanced Process Control

Features:

Contains a selection of level & flow sensors & indicators
Flow controlled by linear motorised control valve
On-Off and proportional control
P, PI and full PID control with auto tune facility
Couples with Temperature Process Control Trainer for dual loop control
Modern push fittings
Water used as the process fluid
Comprehensive manual with laboratory notes

Technical data:

Dimensions (net): 930 mm width x 400 mm depth x 710 mm height

Weight: gross 70 kg, net 45 kg

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