

Product Name :
Training System Temperature Control

Product Code :
NLAB-ENGINEERINGLB54010

Description :

Training System Temperature Control

Technical Specification :

- Experimental unit for control engineering experiments.
- Temperature control of a heated metal bar.
- Heating and cooling by Peltier element.
- Temperature sensors at 3 different points along axis of bar to establish thermal lags.
- Software activated fan to generate disturbance variables.
- Software-based controlled system simulation.
- Process schematic on front panel.

Technical Data:

- Heated bar: DxL: 20x200mm, aluminium.

Peltier element:

- Power consumption depending on temperature.
- Power at 300K: 38,2W.

- Power at 50°C: 44,3W.
- Operated by DC voltage.

Fan:

- Power consumption: 2W
- Max. flow rate: 40m³/h
- Temperature sensor: 0...100°C
- Thermometer: 0...100°C
- Temperature control range: 0...100°C

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