



Email : sales@laboratoryinstrumentindia.com

Product Name :
Temperature Control Trainer

Product Code :
LBNY-0005-12700090



Description :

Trainer for control engineering experiments
Temperature measurement with thermocouples at multiple points
Generation of disturbance variables by ball valve with scale in water circuit
Screw-in heater with dry-running protection and temperature limiter Air/water heat exchanger with fan
Process variables X and Y accessible as analogue signals via lab jacks
Thyristor power controller as actuator
Digital controller, configurable as switching or continuous controller
2-channel line recorder
Temperature control process, equipped with standard industrial components
Water circuit with pump, heater and 2 different lengths of process delay.

Technical Specification :

Pump, 3-stage
Max. flow rate: 3,6m³/h
Max. head: 4m
Max. power consumption: 70W
Heat exchanger: approx. surface area 2,8m²
Screw-in heater: 2kW
Fan
Power output: 250W
Max. differential pressure: 430Pa
Max. flow rate: 780m³/h

Speed: 2880min-1

Thyristor power controller max. load current: 25A

Thermocouple: type J: 0...200°C

Line recorder

Feed rate 0...7200mm/h, stepped

1x 4...20mA, 1x 0...20mA.



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