



52009C Temperature control trainer is designed for understanding the basic temperature control principles for the Process control mounted on Aluminum profile rack with sturdy table top flat panel. The process setup consists of heating chamber fitted with SSR controlled heater for on-line heating of the air. Temperature sensor (RTD) is used for temperature sensing. Fan is fitted in the chamber for maintaining the temperature. The process parameter (Temperature) is controlled by microprocessor based digital indicating controller which manipulates heat input to the process. Each panel has ABS molded plastic sturdy enclosure with 4mm shrouded connectors showing circuit diagram & its connection tag numbers for easy understanding and connections.

Specifications

- Trainer having control panel should provided in 40X40mm Aluminum profile rack with sturdy table top flat panel.
- Should have ABS plastic panel mounted on the aluminum rack with mimic diagram
- All input & output are terminated in 4mm shrouded connector, Should provide 4mm banana cable for experiments.
- Type of control PID
 - Control unit Digital indicating controller
 - Temperature sensor Type RTD, Pt100
- Heating control Proportional power controller (SSR), Input 4-20 mA, Capacity 20 A
- Heater Type 3 bulb , Capacity 300 W
- Process Chamber: Fitted with bulb & Cooling Fan.
- 230 +/- 10 VAC, 50 Hz, 1 phase with On/Off Switch.

Experiments

- Study of open loop (Manual control)
- Study of on/off controller
- Study of proportional controller
- Study of prop. integral controller
- Study of prop. derivative controller
- Study of PID controller

Note: Specifications are subject to change.

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