

TEMPRATURE CONTROL SYSTEM

Temperature Control System is designed to teach basic principle of Temperature Control, Temperature Sensor (RTD)

PROCESS DESCRIPTION:

Hardware:

The process setup consists of supply water tank fitted with pump for water circulation. Temperature sensor (RTD Pt-100) senses temperature of the water in geyser & transmit the signals to the controller and depending on the set-point it transmits the signal to Triac Triggering Card which regulates Ac voltage supply to the heater. Computer P-IV.

Experiments:

1. To study the response of the P, PI, PD, PID Controllers.
2. Response of Auto, Manual, Direct, Reverse mode of controllers, study of PID tuning parameters.
3. Study of performance of, and sensors like RTD Pt-100.

