

MULTI PROCESS CONTROL TRAINER

PROCESS DESCRIPTION:

Objective:

It consists of Hot water tank, Cold water tank and Process tank which are fitted with pump for water circulation, level transmitter is fitted to process tank, orifice meters with differential pressure transmitters, Rotameters, heat exchanger with four temperature transmitters at the inlet and outlet side. Three Pneumatic control valves connected to I/P converter and interfacing unit. These units along with necessary piping are mounted on stand-alone type structure.

Experiments:

1. To study the response of the P, PI, PD, PID Controllers.
2. Study of Level, Flow & Temperature control in one time.
3. Study of Cascade, Feedback, feed forward, Ratio and On/Off Controllers in single system.
4. Response of Auto, Manual, Direct, Reverse mode of controllers, study of PID tuning parameters.



