

CASCADE CONTROL TRAINER

A Complete setup to study the cascade control (master-slave) of a Level & Flow control system using PC based control or panel-based control.

PROCESS DESCRIPTION:

Hardware:

The process setup consists of supply water tank fitted with pump for water circulation. Level transmitter is fitted on transparent process tank. Flow transmitter fitted across orifice meter senses the water flow to the tank. The water flow (secondary loop) to the process is controlled by pneumatic control valve to maintain. Computer P-IV & Compressor is optional.

Experiments:

1. To study the of P, PI, PD, PID Controllers.
2. Response of Auto, Manual, Direct, Rev mode of controllers.
3. Response of Auto, Manual, Direct, Reverse mode of controllers.
4. Study of the PID controller tuning.



