

FLOW CONTROL SYSTEM

Flow Control System is designed to teach basic principle of Flow Control.

PROCESS DESCRIPTION:

Hardware:

The process setup consists of supply water tank fitted with pump for water circulation. A DP transmitter senses differential pressure across orifice meter and transmits the signals to the controller and depending on the set-point it transmits the signal to I/P converter which regulates the Pneumatic Control Valve. The process parameter (Flow) is controlled through computer or PID controller by manipulating control valve. Computer P-IV & Compressor are optional.

Experiments:

1. To study the of P, PI, PD, PID Controllers,
2. Response of Auto, Manual, Direct, Rev mode of controllers,
3. Study of the PID controller tuning
4. To study the response of the instruments Pneumatic Control Valve, Level Sensor, I/P Converter

