

INTERACTING & NON-INTERACTING SYSTEM

A Complete Setup to Study the Level Control in Interacting & Non- Interacting Systems.

PROCESS DESCRIPTION:

Objective:

The Process setup consist of One Water Supply Tank fitted with One Pump for Water Circulation, then it's Consist Rotameter for Flow measurement and , Consist I to P convertor which converts Current to Pressure to operate Pneumatic Control Valves. Pneumatic Control Valve with two Water Tank and Level Probe to Measure Level of Liquid in water Tank. Computer P-IV & Compressor are Optional.

Experiments:

1. To Study the response of the P, PI, PD, PID Controllers
2. Study of PID Tuning Parameters.
3. To Study Level response in both Interacting & Non-Interacting Tank System.
4. To Study response in AUTO, Manual, Direct, Reverse Mode of Control.
5. To study the response of the instruments Pneumatic Control.
6. To Study the response of the Instruments Pneumatic Control Valve,Level Sensors, I/P Convertors.
7. To Study Level Controller Characteristic in case of Interacting & Non-Interacting Systems

