

# PH CONTROL TRAINER

pH Control System is designed to teach basic principle of pH transmitter which includes the basic nature of the Acid and Base solution.

## PROCESS DESCRIPTION:

### Objective:

The process setup consists of two tanks for Acidic & Basic solutions and one Product tank which is connected to the pH Sensor & transmitter, the basic solution is controlled by the hand valve and the acidic solution is controlled through pneumatic valve through the PID controller. Computer P-IV & Compressor are optional

### 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.



