

### Pressure Process Controller

#### Specifications:

- \* Pressure transmitter Range of (0-5 Bar) to sense the pressure (output 4-20 mA)
- \* process tank : Fine finished metal pressure tank (of capacity 2 liter)
- \* 1" flexible quick coupling hose tube is used for better reliability.
- \* Air relief valves with the process tank for safety
- \* Air regulator : Range 0-2.1 Bar to regulate the pressure to Feed the Input of Electro Pneumatic Converter.
- \* Pressure gauge mounted on pressure tank.
- \* One Needle valve in the tank to make the disturbance.
- \* Industrial standard electro pneumatic converter to control the control valve of (Input 4-20mA, Output 0.2-1 Bar).
- \* Pneumatic Control Valve of size 1/2" to control the air pressure of the process tank.
- \* All are mounted in a fine finished cabinet.

#### USB/Parallel Port Based Data Acquisition Card

- One Powerful data acquisition card of,
- # 8 Channel, Analog to Digital converter
- # 12 bit Resolution

#### Software Features:

- \* Windows 2008 or above, general purpose data acquisition control software having the features like,
  - # Menu driven Real time on screen monitoring
  - # Off-line analysis
  - # Data logging
  - # Process trend plot
  - # Control software like ON/OFF, Proportional, Proportional Integral, Proportional derivative and PID.

**Air Compressor : 5 bar pressure** with sufficient capacity for the equipment

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## FLOW PROCESS CONTROLLER

### Specifications:

- \* Orifice plate with differential pressure transmitter to sense the flow rate range of 0-500 LPH.
- \* Industrial standard electro pneumatic converter to control the control valve of (Input 4-20mA, Output (0.2 - 1) Bar
- \* Pneumatic Control valve of size 1/2" to control the flow rate of water.
- \* Rust proof water reservoir of capacity (12 liters) to store water.
- \* FHP pump is provided for water circulations.
- \* AIR Regulator cum filter of capacity (0-2.5 Bar to regulate the Air pressure from the compressor.
- \* Bypass line in the Reservoir tank to avoid pump loading.
- \* Hand valve provision given in process tank to make the disturbance study.
- \* PID controller software having the experimentation, PID control, Data logging, trend plot, offline analysis and printing.
- \* Rotameter (0 - 500) LPH for visual indication of flow.

### USB/Parallel Port Based Data Acquisition Card

- \* One Powerful data acquisition card of,
  - # 8 Channel, Analog to Digital converter
  - # 12 bit Resolution

### Software Features:

- \* Windows 2008 or above based general purpose data acquisition control software having the features like,
  - # Menu driven Real time on screen monitoring
  - # Off-line analysis
  - # Data logging
  - # Process trend plot
  - # Control software like ON/OFF, Proportional, Proportional Integral, Proportional derivative and PID.

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