



52009E Pressure control trainer is designed for understanding the basic Level control principles for the Pressure Process control mounted on Aluminum profile rack with sturdy table top flat panel. The process set up consists of pressure vessel fitted with pneumatic control valve. Pressure transmitter is used for pressure sensing. The process parameter (Pressure) is controlled by microprocessor based digital indicating controller which manipulates pneumatic control valve fitted at outlet of pressure tank outlet through I/P converter. Each panel has ABS molded plastic sturdy enclosure with 4mm shrouded connectors showing circuit diagram & its connection tag numbers for easy understanding and connections.

Specifications

- Trainer having control panel should provided in 40X40mm Aluminum profile rack with sturdy table top flat panel. Should have ABS plastic panel mounted on the aluminum rack with mimic diagram
- All input & output are terminated in 4mm shrouded connector, Should provide 4mm banana cable for experiments.
- Type of control PID
 - Control unit Digital indicating controller
 - Input Type 4-20mA
- Pressure transmitter Type Two wire, Range 0–5 bar, Output 4–20 mA
- I/P converter Input 4-20mA, Output 3-15 psig
- Control valve Type Pneumatic, Size ½", Input 3–15 psig, Air to close, Char. Linear,
- MS Process tank Pressure vessel with output valve.
- Air filter regulator Range 0-2.5 kg/cm²
- Pressure gauge Range 0-2.5 kg/cm²(1No), Range 0-7 kg/cm²(1No)
- 230 +/- 10 VAC, 50 Hz, 1 phase with On/Off Switch. Optional: Mini compressor

Experiments

- Study of open loop (Manual control)
- Study of on/off controller
- Study of proportional controller
- Study of prop. integral controller
- Study of prop. derivative controller
- Study of PID controller

Note: Specifications are subject to change.

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