



Control Lab Equipment - Pressure Control Setup Using Pid Controller (ULP-26)



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Unitech's Pressure Control Setup comprises of Pressure tank fitted with pressure transmitter to measure the pressure. The pressure is controlled by a pneumatic control valve operated by a I to P converter. The whole system is mounted on a Table top Model with all necessary Piping. The electronic panel comprises of ADC/DAC card with RS-232 interfaces.

Software is provided for experimentation, Control action like PD, PI, PID can be conducted. Online data acquisition, trend plot are the salient feature of the system. Off line analysis, Printing of data graph can be done easily. The software is compatible with windows XP operating system. Detail Manual will be provided to conduct experiment.

SPECIFICATION

Pressure Transmitter	: Strain gauge / Piezo-resistive based Pressure transmitter
Capacity	: 100 PSI – O/P – 4-20mA
Pressure Tank	: MS tank with powder coating capacity-10Kg/cm ²
Control Valve	: 1/2" Globe valve(Linear) 15mm Stem Travel
Actuator	: Pneumatic Actuator input 3 to 15 PSI
I to P Converter	: Input 4-20mA Output 3-15 PSI
PC Interface Card	: 16 Bit ADC(8 Ch) with 12 Bit DAC interface with PC through RS-232 Serial Port
Pressure Gauge	: Bourdon Pressure Gauge

Manual Release Valve	: 0-100 PSI-1No, 0-30PSI-1 No
Power	: Manual 1/2" gate valve
Pressure Measurement	: 230V 50 Hz
Controller	: Digital Indicator with Retransmission output (Optional) PC based dedicated PIDsoftware to control the process, controlaction P,PI,PID. Trend Plot with online and off line analysis, Printing and analysis
Accessories (Optional)	: - Digital Pressure Indicator with Retransmission output - Air Compressor - Personal computer with latest features