



The Tesca Pressure Control Setup consists of a pressure tank with a pressure transmitter for pressure measurement. An I to P converter controls the pressure through a pneumatic control valve. The entire system, including all essential piping, is mounted on a tabletop model. DELTA PLC with RS-232/USB ports are used in the electronic panel.

SCADA 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/cm²
- **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:**
 - DELTA PLC with RS-232/USB.
- **Manual Release Valve:**
 - Manual 1/2" gate valve
- **Power:**
 - 230V 50 Hz
- **Pressure Measurement:**
 - Digital Indicator with Retransmission output.
- **Controller:**
 - PLC with SCADA based PID Software to control the process, control Action P,PI,PID. Trend plot with on line and off line, Printing and analysis.

Accessories (Optional):

- Digital Pressure Indicator with Retransmission output,
- Air Compressor
- Personal computer with latest features.

Note: Specifications are subject to change.

