

Pressure Control Workbench is very much helpful in understanding and doing hands on practice to control process through two points (On/Off) and three point (PID) controller. Workbench is equipped with Data Acquisition System which has 24 bit ADC and digital input/output which are used to control the pressure through Ethernet. It also provides the exposure to Industrial components like Pressure Transmitter, Control Valves, Pressure Gauge, Solenoid Valve, Safety Valve and the users can learn how to calibrate, install, operate and tune the instruments for controlling the process. All electrical components are mounted on the control panel to allow user to prepare different configurations including open loop (manual control) and close loop (PID control, On/Off control).

Features

- Study of Pressure Transmitter, Pressure Gauge, Control Valve, Solenoid Valve, PID, DAQ8 Channel 24 bit ADC & Safety Valve.
- 7" Human Machine Interface (HMI)
- Types of Controller: DAQ, & HMI
- Supplied with DAQ Software for supervisory control of the process with data acquisition
- Real time DAQ Inter face with ADC and Digital input/output
- Inter face with Ethernet based DAQ
- Start, Stop, Compressor, Solenoid Valve buttons and Indicator for Visual Indicator, Audio Indicator, Compressor, Solenoid Valve
- Pressure Vessel
- Self -contained, bench-mounting arrangement
- Castor Wheel (with locking mechanism) is provided at legs of workstation so that it can be easily moved
- MCB is provided with AC supply for safety purpose
- Enhanced electrical safety consideration



Technical Specifications

DAQ	: 1no.(Data Acquisition System)
Analog Input	: 1 no.
Digital Input	: 4 nos.
Digital Output	: 4 nos.
ADC Resolution	: 24 Bit
Two Unity Gain Amplifiers	: 0 to 5V
Ethernet	: Yes
Data Logging (PC based)	: Yes
RS485	: Yes
HMI	: 1no.(Human Machine Interface)
Supply	: +24V DC
CPU	: 32-bit 400MHz
RISC Storage	: 128M flash + 64M DDRAM
Display size	: 7 inch
Resolution	: 800×480 TFT LCD 65, 536 colors
Interface	: RS485
Touch Screen	: High precision four-wire resistive
Pressure Transmitter	: 1no.
Range	: 0-150psi
Accuracy	: ± 0.5 %
Output	: 4 to 20mA

2 wire system Control Valve	: 1no.
Input	: 4 to 20mA
Line Size	: 25mm
Supply Pressure	: 40 to 50 Psi
Type	: Linear
Pressure Gauge	: 3nos.SX
Pressure Gauge	: 3nos.
Range	: 0-110 psi (2), 0-150psi (1)
Dial	: 100 mm (2), 62mm (1)
Current Display	: 2nos.
Display	: 4 Digit, 7 segment digital
displays Keys	: 3 for digital setting
Input Type	: Current
Resolution	: 1 or 0.1 degree
Supply Voltage	: 230V AC
Safety Valve	: 1 no.
Range	: 120 Psi
4 to 20mA Source	: 1 no.
Potentiometer	: 1 no.
Output	: 4 to 20mA
Air Compressor	: 1 no.
Voltage	: 220V/50Hz
Power	: 0.75 HP
Pressure	: 100 Psi (maximum)
Tank Capacity	: 24 Liter
Push buttons	: 4 nos. (start, stop, compressor, solenoid valve)
Operating Voltage	: +5V
Toggle Switch	: 4 nos.
Indicators	: 4 nos. (visual, compressor, solenoid valve, audio indicator)

****Please feel free to share your requirements by filling your details in ask query section or request a Quote section on the website, we will be happy to cater your requirement.**