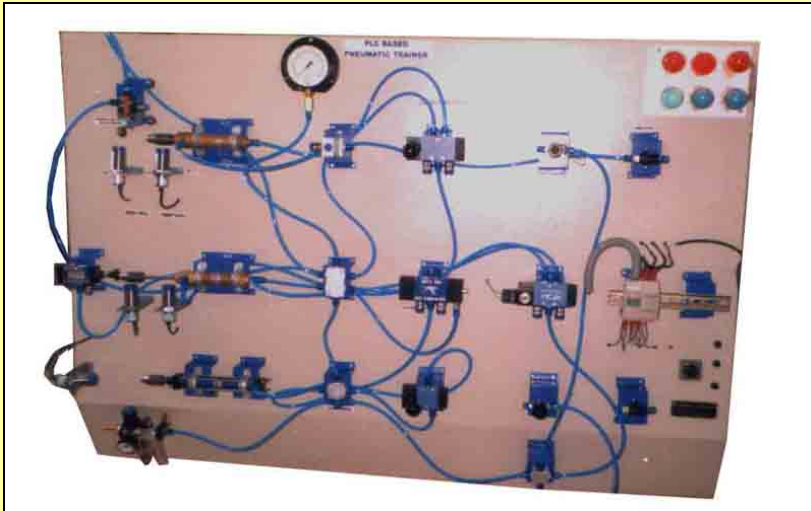


**SAP E&C PLC BASED PNEUMATIC TRAINER.
(PCST-13)**



The PLC Based Pneumatic Trainer System outlines the basics of Pneumatic Control System, its component and applications.

Technical Specification: -

- ❖ Single Acting Cylinder: - Bore: 25 mm × Stroke: 100mm, Mounting: Foot.
- ❖ Double Acting Cylinder: - Bore: 25 mm × Stroke: 100mm, Mounting: Foot
- ❖ Air Filter Regulator: - ¼", 0-10 Kg/cm²
- ❖ Solenoid Valve: - 2 No, 5/2 way, ¼", 230VAC.
& 3/2 way, ¼", 230 VAC.
- ❖ Flow Control Valve: - ¼" (F), Square Body.
- ❖ Non Return Valve: - ¼" connections
- ❖ Block Manifold: - ¼", 6 ways.
- ❖ Plastic Silencer: - ¼" connection
- ❖ Male Connector: - ¼" connection
- ❖ Indicating Lamp: - 24 VDC Operated.
- ❖ Proximity Sensors: - Type: Inductive 2 wire,
Diameter: 18 mm, Sensing Distance: 5 mm.
- ❖ Pressure Gauge: - 0-7 Kg/cm², connection ½" BSP, Dial Size: 100 mm.
- ❖ Pneumatic Motor: - Uni- Directional, Free Speed: 22,000 RPM,
Air pressure: 0-90 psi,
- ❖ PLC: - Allen-Bradley / Equivalent
Digital Input: 8
Digital Output: 4
- ❖ Electrical control panel: - MS Powder coated panel with switches, indicator,
Test Points, controller on front facia, UK 2.5 Terminal
Connectors mounted on DIN rail channel, Use of 1sq mm multistand
wire with proper insulated Lugs, Ferruling & neat wire dressing & clamping
Wires & power cables are seated through 1"×1"
PVC cable tray.
Dimension: 1ft (L) × 1ft (W) × 1ft (H)
- ❖ Air Compressor(Optional):- Tank capacity: 30 Liters, Discharge: 2 CFM
Motor: ½ H.P. 230 V AC Operated, Working pressure: 3-4 kg/cm²

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Features: -

- ❖ PC-PLC operated pneumatic Trainer
- ❖ Basic & Advanced pneumatic circuits.
- ❖ Simple build up of pneumatic circuits.
- ❖ Self contained unit.
- ❖ Referenced storage facilities provided.
- ❖ Symbol used throughout.
- ❖ Fault simulator & maintenance training.
- ❖ Portable Compressor available(optional).
- ❖ Computerized Pneumatic trainer system (optional).
- ❖ PLC with 8 Digital I/P & 4 Digital O/P, PC-PLC interface cable along with Ladder logic.

Range Of Experiments:

- ❖ Study of PLC programming.
- ❖ Study of pneumatic cylinders single acting, double acting.
- ❖ Study of construction & operation of pneumatic equipments such as 5-2 valve, 3-2 valve, limit switches, pneumatic motor, etc.
- ❖ Study of PLC Based pneumatic control system.

Service Required: -

- ❖ Clean, dry Compressed Air Supply at 7 Kg/cm².
- ❖ 230 VAC Single Phase supply.

System Dimensions: 4 Ft. (L) X 1.5 Ft. (W) X 3Ft. (H)

Note:

All descriptive matter and illustrations are intended to give only a general idea of the equipment. Detailed specifications may be altered at the company's discretion without any notice.

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