

**SAP E & C PLC BASED PNEUMATIC TRAINER**  
(PRODUCT CODE: PCST – 13)



The **PLC Based Pneumatic Trainer System (PCST - 13)** outlines the basics of Pneumatic Control System, its component and applications.

**PLC BASED PNEUMATIC TRAINER**

**Technical Specification:-**

No.	Item Name	Technical Specifications
1	PLC-	Siemens Logo / Equivalent, Digital Input: 8, Digital Output: 4
2	Single Acting Cylinder-	Bore: 25 mm × Stroke: 100mm, Mounting: Foot
3	Double Acting Cylinder-	Bore: 25 mm × Stroke: 100mm, Mounting: Foot
4	A.F.R. / F.R.L. Unit-	¼", 0-10 Kg/cm <sup>2</sup>
5	Solenoid Valve-	2 No, 5/2 way, ¼", 24 VDC & 3/2 way, ¼", 24 VDC
6	Flow Control Valve-	¼" (F), Square Body
7	Non Return Valve-	¼" connections
8	Block Manifold-	¼", 6 ways
9	Sintered Silencer-	¼" connection
10	Male Connector-	¼" connection

11	<b>Indicating Lamp-</b>	24 VDC Operated
12	<b>Proximity Sensors-</b>	Type: Inductive 2 wire or 3 wire, Diameter: 18 mm, Sensing Distance: 5 mm
13	<b>Pressure Gauge-</b>	0-7 Kg/cm <sup>2</sup> , connection ½" BSP, Dial Size: 100 mm.
14	<b>Pneumatic Motor-</b>	Unidirectional, Free Speed: 22,000 RPM, Air pressure: 0-90 psi
15	<b>Electrical control panel-</b>	MS Powder coated panel with switches, indicator, Test Points, controller on front fascia, 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)
16	<b>Air Compressor (Optional)-</b>	Tank capacity: 25 Liters, Discharge: 2 CFM, Motor: 1 H.P. 230 V AC Operated, Working pressure: 3-4 kg/cm <sup>2</sup>

#### Range of experiments:

- ❖ Study of pneumatic actuator & reciprocating cylinder trainer kit with different logical Circuits such as OR, AND etc. operations
- ❖ 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.

#### Features: -

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

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

**Services Required:-**

- ❖ Compressed clean, dry air supply at 7 Kg/cm<sup>2</sup>.
- ❖ Electric Supply of 1 $\phi$  230 VAC motor.

**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.

Manufactured/Marketed By  
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