



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

TECHNICAL SPECIFICATION

PLC	PLC- Siemens Logo / Equivalent, Digital Input: 8, Digital Output: 4
Single Acting Cylinder	Bore: 25 mm × Stroke: 100mm, Mounting: Foot
3 Double Acting Cylinder	Bore: 25 mm × Stroke: 100mm, Mounting: Foot
A.F.R. / F.R.L. Unit-	¼", 0-10 Kg/cm ²
Solenoid Valve-	2 No, 5/2 way, ¼", 24 VDC & 3/2 way, ¼", 24 VDC
Flow Control Valve-	¼" (F), Square Body
Non Return Valve	¼" connections
Block Manifold	¼", 6 ways
Sintered Silencer	¼" connection
Male Connector	¼" connection
Indicating Lamp	24 VDC Operated
Proximity Sensors	Type: Inductive 2 wire or 3 wire, Diameter: 18 mm, Sensing Distance: 5 mm
Pressure Gauge	0-7 Kg/cm ² , connection ½" BSP, Dial Size: 100 mm.
Pneumatic Motor	Unidirectional, Free Speed: 22,000 RPM, Air pressure: 0-90 psi
Electrical control panel	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 multi stand 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: 25 Liters, Discharge: 2 CFM, Motor: 1 H.P. 230 V AC Operated, Working pressure: 3-4 kg/cm ²

Note: Specifications are subject to change.

Tesca Technologies Pvt. Ltd.

IT-2013, Ramchandrapura Industrial Area, Sitapura Extension,
Near Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India,
Tel: +91-141-2771791 / 2771792; Email: info@tesca.in, tesca.technologies@gmail.com
Website: www.tescaglobal.com

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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