

**SAP E&C ELECTRO-PNEUMATIC TRAINER.
(SAP 20)**



The Electro- Pneumatic Trainer outlines the basics of Pneumatic Control System along with its components & their applications.

Technical Specification: -

- ❖ Single Acting Cylinder: - Bore: 25 mm × Stroke: 100mm,
Mounting: Foot.
- ❖ Double Acting Cylinder: - Bore: 25 mm × Stroke: - 100mm,
Mounting: Foot
- ❖ Air pressure Regulator: - ¼", 0-10 Kg/cm²
- ❖ Solenoid Valve: - 2 Nos, 5/2 way, ¼", 230VAC.
& 3/2 way, ¼", 230 VAC.
- ❖ Flow Control Valve: - ¼" (F), Square Body.
- ❖ Non Return Valve: - ¼" connection
- ❖ 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,
- ❖ 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 multistrand 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
- ❖ Relay Module: - 24V DC supply, 2 NO/NC contacts, panel mounting type.

Features: -

- ❖ Compact Ergonomic Design.
- ❖ User Friendly, Self Explanatory Systems.
- ❖ Leak proof Safety Measures, sturdy piping & Robust Construction.
- ❖ Enhanced Electrical Safety Considerations.
- ❖ Training Manuals mimic Charts for Operation Ease.
- ❖ M.S. powder coated cubical plant with standard Instrument Assemblies.
- ❖ Inbuilt Safety Measures to avoid improper usage.
- ❖ Relay board logic circuit operation.

System Specifications:

Double acting cylinder, 3/2 solenoid valve acting cylinder with flow restrictors, Single acting cylinder, Double Pilot operating 5/2 valve(optional), Single solenoid operating 5/2 valve, 5/2 Hand Lever Valve(optional), Pneumatic limit switch (plunger & roller operated) (optional), Push-button 3/2 valves (monostable) (optional), 3/2 Roller Lever Valve(optional), Pneumatic indicators(optional), Air supply manifold, Pneumatic motor, AFR Unit, Profile Plate, Flow Control Valve, Quick Exhaust Valve, T-Connectors, Shuttle Valve (OR Gate), Dual Pressure Valve (AND Gate), Hand Slide Valve, Time Delay Valve(optional) , Quick Connectors, Mounting Plates.

Range Of Experiments:

- ❖ Study of pneumatic actuator & reciprocating cylinder trainer kit with different logical Circuits such as OR, AND etc. operations.
- ❖ Study of pneumatic cylinders, single acting, double acting.
- ❖ Study of construction & operation of pneumatic equipments such as 5/2-way Solenoid valve, 3/2-way valve, limits switches, pneumatic motor etc.
- ❖ Study of pneumatic control systems.

Service Required:

- ❖ Compressed clean, dry air supply at 7-8 Kg/cm².
- ❖ 230 VAC single phase 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.

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