



52017B PLC trainer basic is designed for understanding the basic PLC programming logic principles for the Process automation, mounted on Aluminum profile rack with sturdy table top flat panel. The PLC setup consists of 24 inputs & 22 Output with panel. For Simulating input this unit has 14 toggle switch & 2 push switch. For simulating output this unit provided with 8 SPDT relay output with Led indicator. Each panel has ABS molded plastic sturdy enclosure with 4mm shrouded connectors showing circuit diagram & its connection tag numbers for easy understanding and connections.

### Specifications

- Trainer having control panel should provided in 40X40mm Aluminum profile rack with sturdy table top flat panel.
- Should have 3 ABS plastic panel mounted on the aluminum rack with mimic diagram
- DVP-14SS2 type PLC Controller panel
  - 32 bit CPU controller built in
  - 24 Digital input ports
  - 22 Digital Output ports
  - 4 Analog Input channels with 12 bit resolution
  - +/-10V Voltage or +/-20mA current range
  - 2 Analog output channel
  - 0 to10V Voltage or +/-20mA current range
  - Program capacity : 8K step/data register 5K words
  - 4 points of 10Khz pulse output
  - 8 points of high speed counter: 20Khz/4 points & 10Khz/4points
  - Supports modbus, RTU protocol
  - RS-232 link for pc communication
- Digital/Analog Input Simulation panel
  - 14 bit digital input toggle switch provided for Hi & Lo output
  - 2 bit digital input Push switch provided for Hi & Lo output

- HI output is 24V dc & LO output is 0V.
- 4 Analog Simulation Potentiometer.
- 24V DC supply in built
- 230V AC power socket with On/Off Switch
- Digital Output Simulation panel
  - 8 bit SPDT Relay output
  - Led indicator for output indication.
- All input & output are terminated in 4mm connector & should provide 4mm banana cable for experiments.

### Experiments

- Study of NO,NC & Coil Operation
- Study of Interlock Operation
- Study of Latch Operation
- Study of Set & Reset Operation
- Study of Rising & Falling Edge Operation
- Study of Timer & Counter Operation
- Study of Right & Left Shift Operation
- Study of Addition, Subtraction, Multiplication & Division Operation
- Study of Data Move Operation
- Study of Comparison Operation

### Interfacing Simulation Module

- Traffic Light Module
- Vehicle Parking Module
- Elevator Lift Module
- Washing Machine Module
- Bottling Plant Module
- Packing Module
- Level & Pump Control Module
- Fan Control Module
- Star Delta Module
- Safety Door Module
- conveyer Belt Module
- Seven Segment Module
- Stepper Motor Control Module
- DC Motor Control Module

Note: Specifications are subject to change.

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