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## **PLC Pneumatic Control Trainers**

**PN:0401020050**

### [PLC Pneumatic Control Trainers](#)

#### [Features](#)

[PLC Pneumatic Control Trainers](#) is a professional pneumatic circuit design and demonstrating of pneumatic experimental platform.It is designed for training and assessment of subjects such as pneumatic drive,PLC control technology in colleges and vocational schools with a variety of pneumatic components modules and programmable controller module.[PLC Pneumatic Control Trainers](#) can meet the teaching and training of the pneumatic disciplines.

- 1,The composition of pneumatic transmission system.
- 2,The basic pneumatic circuit experiments
- 3,PLC electrical control experiment:machine-electric-pneumatic integrated control experiments.

### [PLC Pneumatic Control Trainers](#)

#### [Performance](#)

- 1,The training panel is designed as T-slot and all pneumatic modules use rapid joint which can inserted for easy operation.
- 2,All pneumatic components and valves are used industrial grade physical components and valves.
- 3,The pneumatic modules are all independent modules with spring pins plate,which can be assembled easily into a variety of pneumatic circuits on the T-slot panel.
- 4,The quick couplings are used for pneumatic circuits connection and the electrical control circuit use training connecting wires with protective function.The students can build circuits under the guidance of instruction books or design their own system circuits.The pneumatic components in this trainer is complete for designing more complex applications circuits.Various circuits design and constitution up to 40 kinds of experiments.
- 5,Adopt quiet air compressor with low noise (<57db), oil-free, odorless gas,clean and dry.

### [PLC Pneumatic Control Trainers](#)

#### [Typical Training Contents](#)

- 1.Pressure control circuits**

1.1 Differential pressure circuit

1.2 Pressure regulating circuit

1.3 High and low pressure control circuit

## **2. Directional control circuits**

2.1 Alternative reversing circuit by two position two-way single electric solenoid valve

2.2 Single-acting cylinder circuit by two position three-way single electric solenoid valve

2.3 Reversing circuit by two position five-way single electric solenoid valve

2.4 Alternative reversing circuit by three position five-way single electric solenoid valve

2.5 Two position five-way single electric(pneumatic) control valve circuit

2.7 Reversing circuit by three position five-way double electric valve

2.8 Reversing circuit by travel(reversing) valve

2.9 Reversing circuit by travel manual(reversing) valve

2.10 Reversing circuit by PLC

2.11 Sequence action circuit by proximity switch

2.12 Sequence action circuit by PLC

2.13 Delay sequence action circuit by PLC

## **3. Speed control circuits**

3.1 Speed regulated circuit I by one-way throttle valve in series

3.2 Quick return circuit by quick exhaust valve

3.3 Pneumatic control speed regulated circuit

3.4 Exhaust and speed regulated circuit by one-way throttle valve

3.5 Synchronization circuit by one-way throttle valve

3.6 Slow travel-snap back(slow forward fast backward)circuit

3.7 Secondary feed action circuit

## **3.3 Position control circuits**

3.3.1 Position control circuit I by three position five-way valve

3.3.2 Position control circuit II by three position five-way valve

3.4 Delay control circuit by PLC

**Part B.PLC electrical control experiment: machine-electric-pneumatic integrated control experiment.**

1. PLC programming instructions and ladder programming
2. Learn and use PLC programming software
3. Communication of PLC and computer
4. PLC application and optimization solutions in the Pneumatic transmission system.

### **PLC Pneumatic Control Trainers**

#### **Main Technical Parameter**

Air pump

1. Power/Voltage: 0.55KW/220V
2. Flow displacement:  $\geq 55$ L/min
3. Max Pressure: 0.75Mpa
4. Speed: 1400r/min