



Since PLC (Programmable Logic Controller) was first introduced in 1970, it has been widely applied to various industrial uses such as machine and process controls. Designed with the latest microprocessor and electronic circuitry, today's compact-size PLCs provide the features of high reliability, high performance, high speed and networking. The use of PLCs in automated production lines enhances system reliability, product quality, information sharing, efficiency and flexibility and thus reduces costs. PLC-200 is a self-contained trainer which consists of a SIEMENS PLC main unit and commonly used I/O devices for simulation. It offers students excellent theories and wide applications of programmable logic controllers. The trainer enables students to learn step by step from the fundamentals of PLC to more advanced controls used in industry.

### Features

1. Input-simulation switches function as level and pulse Input for different input signal
2. Installation of output relay helps to increase load current
3. Easy-to-use, windows-based development software
4. With various peripheral devices and other devices that support external extensions, it particularly suits laboratory experiment and project implementation
5. Equipped with various simulations I/O devices for studying and observing the results
6. Use 4mm safety sockets Input / Output terminals to ensure users physical safety
7. Easy to carry, move and store with a suitcase design

### Specifications

- AC adapter : Input AC 100~240V, Output DC 24V
- PLC main unit : SIEMENS SIMATIC S7-224
- Digital input : 14
- Digital output : 10
- Support high-speed counters : 6 (total)
- Support timers : 256 total timers; 4 timers(1ms); 16 timers (10ms); 236 timers (100ms)
- Communication ports : RS-485
- One 4-digit 7-segment display
- One 4-digit thumbwheel switch
- One step motor
- One encoder
- One 24V DC motor
- One proximity sensor
- One micro switch
- One buzzer
- One 4x4 keypad
- One 24V DC expansion power
- Provide module expansion port and DIO extension port
- Provide traffic light control module
- Provide tank-filling device module

Windows-based programming software (STEP 7-Micro / WIN) allows the user to modify the program while running

### Experiments

1. STEP 7- Micro/WIN operations
  - Editing ladder program
  - Testing ladder program
  - Monitoring status

2. Basic control circuits
  - Self-holding circuit
  - Flashing control
  - Inching control
  - Single button Control
3. Light control
  - Simple light control
  - Complex light control
4. Traffic light control
  - Traffic light controller (step)
  - Traffic light controller (conventional)
5. Digital clock control
  - 7-segment display control
  - Time clock
6. Step motor control
  - Speed and direction control
  - Encoder operation
  - Step motor and encoder
  - Step display of step motor
7. Tank filling device control
  - Tank filling control
  - Tank filling control with thumbwheel
8. Keypad control
  - Keypad operation
  - Digital lock control
9. DC motor control
  - PWM speed controller
  - Proximity and micro switches
  - Automatic speed control

### System Requirements

1. PC with Pentium II or better CPU
2. Windows 98 / 2000 / XP / Vista / 7
3. USB / PPI Multi-Master Cable (optional but necessary)
4. STEP 7- Micro/WIN software CD (optional but necessary)

### Accessories

1. Power cord
2. Experiment manual
3. Connecting leads set



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