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Systelec ®

PLC-200
Programmable Logic Controller (SIEMENS S7-200) Trainer

Since PLC (Programmable Logic Controller) was firstly 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 feature of high level of reliability, performance, 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. This 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. It is particularly suitable for installation of output relay helps to increase load current
3. Easy-to-use, Windows-based development software
4. Assorted peripheral devices and other devices that support external extensions, it particularly suits laboratory experiment and project implementation.
5. Various simulations I/O devices for studying and observing the results
6. Using 4mm safety sockets on Input/Output terminals to ensure users' safety
7. The suitcase-design makes it easy to carry, move and store

● Specifications

1. AC Adapter   : input 100V ~ 240V AC,
                   output 24V DC
2. PLC Main Unit : SIEMENS SIMATIC S7-224
3. Digital Input   : 14
4. Digital Output : 10
5. Support High-speed Counters : 6 (total)
6. Support Timers : 256 total timers, 4 timers (1ms),
                   16 timers (10ms), 236 timers (100ms)
7. Communication Ports : RS-485
8. Module Expansion Port and DIO Extension Port
9. Traffic Light Control Module
10. Tank-filling Device Module

11. 4-digit 7-segment Display
12. 4-digit Thumbwheel Switch
13. Step Motor
14. Encoder
15. 24V DC Motor
16. Proximity Sensor
17. Micro Switch
18. Buzzer
19. 4x4 Keypad
20. 24V DC Expansion Power
21. Windows-based programming software (STEP 7-Micro/WIN) allows the user to modify the program while running it

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● List of Experiments

1. STEP 7- Micro/WIN operations
   (1) Editing ladder program
   (2) Testing ladder program
   (3) Monitoring status

2. Basic control circuits
   (1) Self-holding circuit
   (2) Flashing control
   (3) Inching control
   (4) Single button Control

3. Light control
   (1) Simple light control
   (2) Complex light control

4. Traffic light control
   (1) Traffic light controller (conventional)
   (2) Traffic light controller (step)

5. Digital clock control
   (1) 7-segment display control
   (2) Time clock

6. Step motor control
   (1) Speed and direction control
   (2) Encoder operation
   (3) Step motor and encoder
   (4) Step motor's step display

7. Tank filling device control
   (1) Tank filling control
   (2) Tank filling control with thumbwheel

8. Keypad control
   (1) Keypad operation
   (2) Digital lock control

9. DC motor control
   (1) PWM speed controller
   (2) Proximity and micro switches
   (3) 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)

USB/PPI Multi-Master Cable

● Accessories

1. Power Cord
2. Experiment Manual
3. Connecting Leads Set

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