

Product Information Sheet

PLCs Trainer Teaching Set (Siemens)



Includes digital curriculum



This training system offers a platform that enables students to perform a comprehensive range of programming tasks using a Siemens programmable logic controller (PLC) and a rotating disc sorting application.

The unit is designed to allow sorting of metal discs one at a time, checking them for a machined hole and dispensing them into one of two bins based upon programming logic.

Students develop their understanding of PLC programming using a unique software simulator that mimics an industrial control work-cell.

The package includes a Siemens S7-1200 industrial controller and Step 7 programming software.

Initial tasks using this controller involve assigning inputs and outputs and learning how to connect and download programs.

The tasks build up incrementally until the student is writing a complete control program for the sorter, including motor speed and positional control using the built-in rotary encoder.

Sensors and Actuator Devices Include:

- Motor controlled sorting disc
- Analog motor speed control input
- Analog dial control output
- Optical rotary encoder (2 channel + Index)
- 2 Status indicator lamps
- 2 Start/stop buttons
- 1 Infrared hole detector sensor
- 4 Manual control input switches
- 4 Switched faults

Topic Areas Include:

- Using the Siemens Step 7 remote programming software
- Downloading control programs to a remote Siemens PLC
- Creating a program that will automatically sort parts based upon the presence of a hole
- Debugging and running control programs on a remote Siemens PLC
- Troubleshooting an industrial control system

Items Included:

- PLCs Trainer (291-01)
- Power Supply, USB Lead, and Ethernet Communication Lead
- Siemens PLC Pack including Step 7 software (290-02/SI)
- Curriculum in Digital Format

Other Items Required:

- Windows computer

General Information:

Dimensions: 485 x 410 x 210 mm (W, D, H)
Supply Voltage: 50-60Hz 100-240V AC
Packed Volume: Approx. 0.335 m³
Packed Weight: Approx. 10 kg

Please Note: An Allen Bradley version of this teaching set is also available. It uses the Micrologix820 and associated programming software. Order as 291-00/AB

Order Code: 291-00/SI

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