

## Product Information Sheet

### PLCs Trainer Teaching Set (Allen Bradley)



Includes digital curriculum



This training system offers a platform that enables students to perform a comprehensive range of programming tasks using an Allen Bradley 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 an Allen Bradley Micro820 industrial controller and associated 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 rotational control.

#### 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 Connected Components Workbench remote programming software
- Downloading control programs to a remote Allen Bradley PLC
- Creating a program that will automatically sort parts based upon the presence of a hole
- Debugging and running control programs on a remote Allen Bradley PLC
- Troubleshooting an industrial control system

#### Items Included:

- PLCs Trainer (291-01)
- 1 x Allen Bradley Micro820 PLC
- 1 x Ethernet Communication Lead
- Curriculum in Digital Format

#### Other Items Required:

- Windows computer
- Allen Bradley Connected Components Workbench (Free Download)

#### General Information:

Dimensions: 485 x 410 x 210 mm (W, D, H)

Supply Voltage:

50-60Hz 100-240V AC

Packed Volume: Approx. 0.335 m<sup>3</sup>

Packed Weight: Approx. 10 kg

**Order Code: 291-00/AB**

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