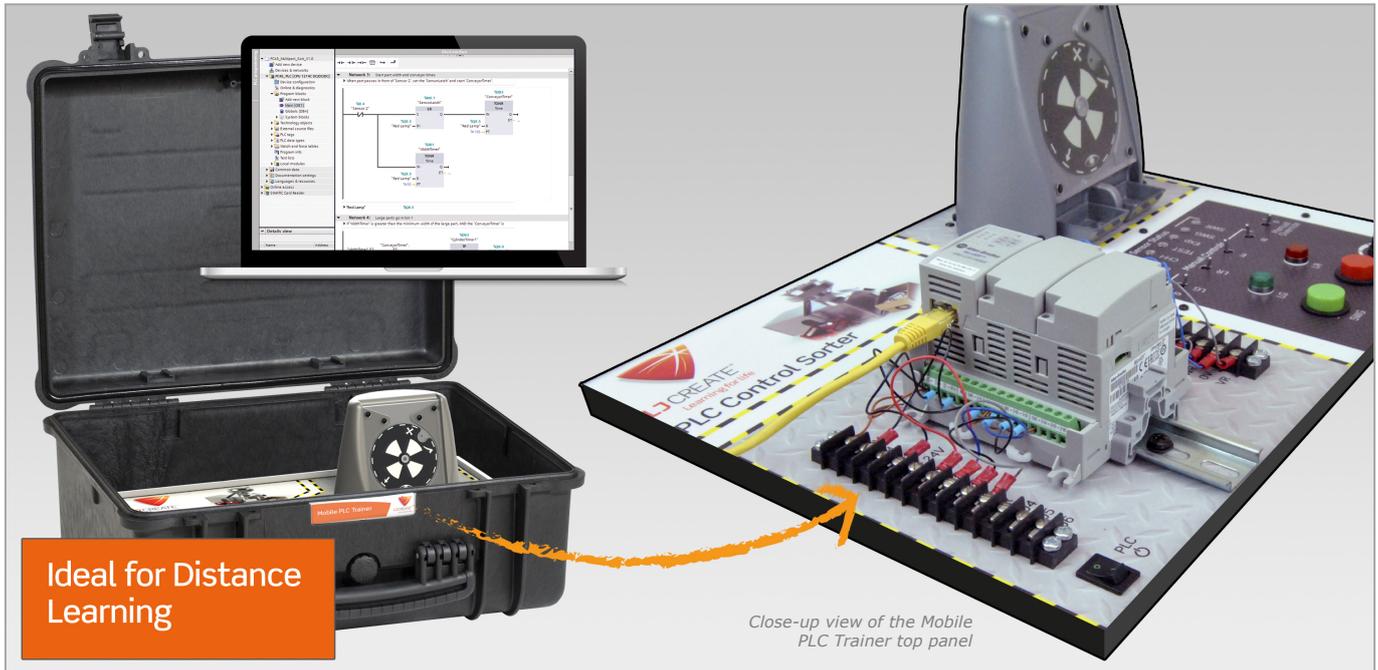


# Product Information Sheet

## Mobile PLC Trainer (Allen Bradley)



Ideal for Distance Learning

Close-up view of the Mobile PLC Trainer top panel

This Mobile PLC Trainer offers a platform that enables students to perform a comprehensive range of programming tasks culminating in the control of the unit using an industrial programmable logic controller (PLC).

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

The speed of the sorting disc is controlled using an analog input signal. The position of the sorting disc can be determined using the in-built rotary encoder.

Students develop their understanding of PLC programming using our unique software simulation of an industrial work-cell. The trainer is housed in a mil-spec waterproof case for ease of transportation and shipping.

The supplied STEM learning materials have been designed to provide practical real-world problem solving tasks and activities within the classroom or lab environment.

### Typical Topic Areas Include:

- Industrial Controllers
- Logic (AND, OR and NOT), Truth Tables & Step Logic
- Latching Actuators
- Counting Parts and Timing Events
- Controlling Motor Speed and Position
- Sorting Parts

### Industrial Control Application Components:

- Manual override switch
- 4 x Manual control switches
- 7 x Input/Output LED indicators
- 2 x Push buttons (Red/Green)
- 2 x Lamp indicators (Red/Green)
- 2 x Part bins
- Analog speed control dial
- Variable speed DC motor controlled sorting disc
- Infra-red hole detection sensor
- Two channel rotary encoder with index position
- Connection block and rack bar for PLC extension

### Items Included:

- Industrial Control Sorter Application
- Allen Bradley Micro820 PLC (290-02/AB)
- Power Supply and USB Lead
- Selection of Solid and Holed Discs
- Ladder Logic Simulation Software
- Curriculum-Based Learning Content

### Other Items Required:

- Computer with DVD and USB Port

### General Information:

Dimensions (W x D x H):  
480 x 370 x 205mm/ 19 x 15 x 9 inches

Packed Volume:  
Approx. 0.109 m<sup>3</sup> / 3.85ft<sup>3</sup>  
Packed Weight: Approx. 9 kg / 20lb  
Supply Voltage: 50-60Hz 110-240V AC



Order Code: 291-04/AB

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