Programmable Logic Controller (AB MicroLogix 1400 with Case)
8208214 (3240-F0)
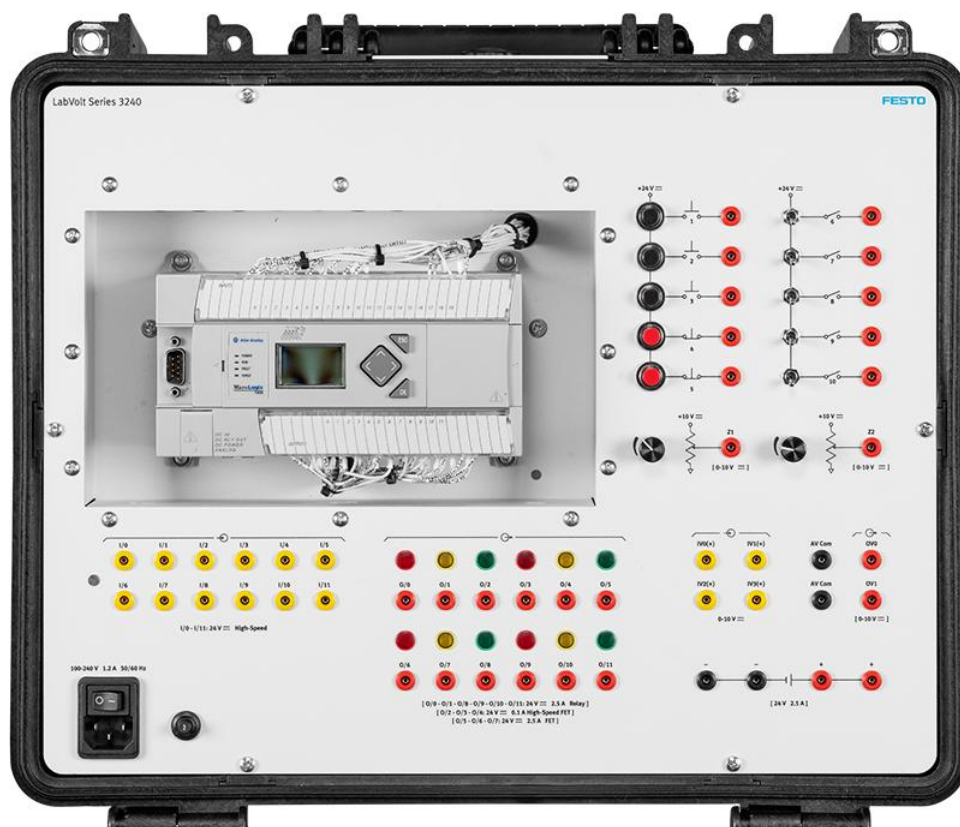
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General Description

The Programmable Logic Controller (AB MicroLogix 1400 with Case) is specially designed to help students develop skills in operating, programming, and troubleshooting modern PLC-controlled systems. Driven by an Allen-Bradley® MicroLogix™ 1400 controller, the training module is fully supported by instructional material and is compatible with several didactic applications.

Topic Coverage

- Familiarization with the PLC Trainer and RSLogix Micro
- Online Operations and Monitoring I/O Data Files
- Relay Instructions
- Timer Instructions
- Counter Instructions
- Comparison Instructions
- Move Instructions
- Sequencer Instructions

Features & Benefits

- Rugged suitcase for easy transportation and storage. Also include a storage compartment for cables and accessories
- Built-in 10/100 Mbps Ethernet/IP port for peer-to-peer messaging
- Eight fault switches
- Embedded Web server and LCD screen
- Possibility to navigate the web server pages to display levels of information
- Each controller supports 32 discrete I/O points (20 digital inputs, 12 discreet outputs) and 6 analog I/O points (4 analog inputs and 2 analog outputs)
- Input/Output data scaled for PID
- Five push-button and five toggle switches
- Compatibility with MicroLogix and SLC instruction set
- Programming the MicroLogix 1400 controller is done using RSLogix 500 / RSLogix Micro software

Additional Equipment Required to Perform the Exercises (Purchased separately)

| Qty	Description	Model number
1	PLC Software (RSLogix Micro, Educational) _____	587552 (3245-A0)
1	Personal Computer _____	579785 (8990-00)
1	Campus Licence, Programmable Logic Controller (LabVolt Series) _____	585276 (88270-A0)

Specifications

Parameter	Value
Power Requirements	
Input	100-240 V, 1.2 A, 50/60 Hz
Inputs	
Digital (12)	24 V, High-Speed
Analog (4)	0-10 V
Outputs	
Digital, Relay (6)	24 V, 2.5 A
Digital, High-Speed FET (3)	24 V, 0.1 A
Digital, FET (3)	24 V, 2.5 A
Analog (2)	0-10 V

Parameter	Value
Embedded Power Supply	
Output	24 V, 2.5 A
Available Controls	
Digital (10)	Pushbuttons NO (3), Pushbuttons NC (2), Toggle Switches (5)
Analog (2)	2 potentiometers providing a 0-10 V output
Physical Characteristics	
Dimensions (H x W x D)	136 × 474 × 450 mm (5.4 × 18.7 × 17.7 in)

Module Options Description

PLC Software (RSLogix Micro, Educational)
587552 (3245-A0)
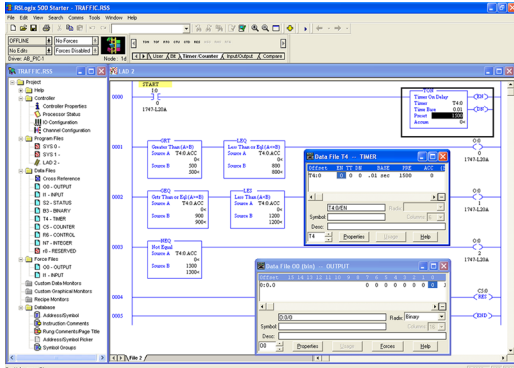
The RSLogix Micro software is a tool to design and implement ladder programs for the Allen-Bradley MicroLogix™ family of processors (it cannot be used with SLC 500 controllers). It is a Windows$^®$-based application produced by Rockwell Software that allows PLC programming using a personal computer.

The free-form ladder of RSLogix Micro lets students concentrate on the application logic rather than using the proper syntax when editing programs. Several other features of RSLogix Micro greatly facilitate PLC programming, such as a project verifier, drag-and-drop editing, and search-and-replace functions. The PLC can be programmed via either an RS-232 port or an Ethernet port on the PLC processor. This software comes with RSLinx™, which provides connectivity between the PLC and the computer.

The software is available with either an educational license (Model 3245-A) or as a commercial license (Model 3245-B).

Specifications

Parameter	Value
Computer Requirements	A currently available personal computer with USB 2.0 ports, running under one of the following operating systems: Windows$^®$ 7 or Windows$^®$ 8.

Personal Computer
579785 (8990-00)

The Personal Computer consists of a desktop computer running under Windows$^®$ 10. A monitor, keyboard, and mouse are included.

Campus Licence, Programmable Logic Controller (LabVolt Series)
585276 (88270-A0)

List of Manuals

Description	Manual number
Programmable Logic Controller (Workbook)	591538 (52281-00)
Programmable Logic Controller (Workbook (Instructor))	591540 (52281-10)
Programmable Logic Controller (Workbook)	592130 (88270-00)
Programmable Logic Controller (Workbook (Instructor))	592131 (88270-10)

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