

Programmable Logic Controller (AB MicroLogix 1100 with Case) 588462 (3240-D0)

FESTO

LabVolt Series

Datasheet



Table of Contents

| | |
|--|---|
| General Description _____ | 2 |
| Features & Benefits _____ | 2 |
| List of Equipment _____ | 2 |
| List of Manuals _____ | 2 |
| Table of Contents of the Manual(s) _____ | 3 |
| Additional Equipment Required to Perform the Exercises _____ | 3 |
| Optional Equipment _____ | 3 |
| Equipment Description _____ | 3 |
| Optional Equipment Description _____ | 4 |

General Description

The Programmable Logic Controller (AB MicroLogix 1100 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™ 1100 controller, the training module is fully supported by instructional material and is compatible with several didactic applications.

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
- Online editing functionality
- Digital and Analog I/Os; Digital (24 VDC): 10 inputs (four 40kHz high-speed), 6 outputs (two 40 kHz high-speed); Analog (0 - 10 VDC): 2 inputs
- PID Capability
- Five push-button and five toggle switches
- Built-in 24 V dc power supply
- Easy expansion using rackless I/O modules (Analog Expansion Module 3244-4)
- Onboard traffic light simulator
- Compatibility with MicroLogix and SLC instruction set
- Requires the RSLogix Micro programming software (Model 3245-A) *
 - * RSLogix Micro Starter Lite for MicroLogix 1000 and 1100 is available for free on Allen-Bradley website (www.ab.com).

List of Equipment

| Qty | Description | Model number |
|-----|---|-------------------|
| 1 | Power Cord - Nema 5-15 _____ | 582145 (86331-00) |
| 1 | Programmable Logic Controller (MicroLogix 1100 with Case) _____ | 587536 (3240-DX) |

List of Manuals

| Description | Manual number |
|--|-------------------|
| Programmable Logic Controller (Student Manual) _____ | 589767 (52281-00) |
| Programmable Logic Controller (Instructor Guide) _____ | 589768 (52281-10) |

Table of Contents of the Manual(s)

Programmable Logic Controller (Student Manual) (589767 (52281-00))

- 1 Familiarization with the PLC Trainer and RSLogix Micro
- 2 Online Operations and Monitoring I/O Data Files
- 3 Relay Instructions Part 1
- 4 Relay Instructions Part II
- 5 Timer Instructions
- 6 Counter Instructions
- 7 Comparison Instructions
- 8 Move Instructions
- 9 Sequencer Instructions

Additional Equipment Required to Perform the Exercises

| Qty | Description | Model number |
|-----|---|-------------------------------|
| 1 | PLC Software (RSLogix Micro, Educational) _____ | 587552 (3245-A0) |
| 1 | Personal Computer _____ | 579785 (8990-00) ¹ |

Optional Equipment

| Qty | Description | Model number |
|-----|---|-------------------|
| 1 | Communication Cable (Allen-Bradley) _____ | 587566 (3246-40) |
| 1 | Serial-to-USB Converter _____ | 775477 (34879-00) |
| 1 | Programmable Logic Controller (Manuals on CD-ROM) _____ | 585276 (88270-A0) |

Equipment Description

Programmable Logic Controller (MicroLogix 1100 with Case) 587536 (3240-DX)



The Programmable Logic Controller (MicroLogix 1100 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™ 1100 controller, the training module is fully supported by instructional material and is compatible with several didactic applications.

¹ Refer to the Computer Requirements in the PLC Software Specifications section of this datasheet if the computer is to be provided by the end-user.

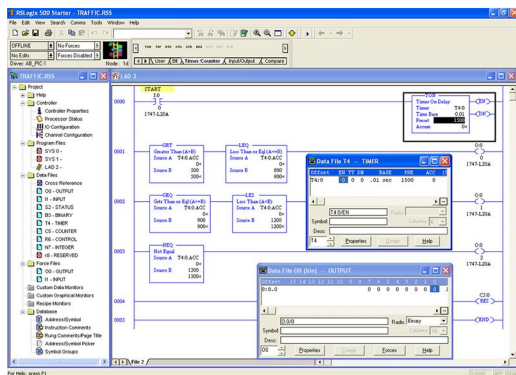
**Power Cord - Nema 5-15
582145 (86331-00)**



This power cord connects the equipment to a wall outlet. It is intended for use in North America, Central America, Brazil, Colombia, Ecuador, Korea, Japan, Taiwan, Thailand, and the Philippines.

Optional Equipment Description

**PLC Software (RSLogix Micro, Educational) (Optional)
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. |

**Communication Cable (Allen-Bradley) (Optional)
587566 (3246-40)**



The communication cable is an RS-232-C serial cable specifically designed to connect a personal computer to an Allen-Bradley programmable logic controller, thus making it possible to program and monitor the PLC.

Specifications

| Parameter | Value |
|----------------------------|---------------------------------|
| Communication Cable | |
| Type | 8 pin mini DIN to 9 pin D shell |
| Length | 2 m (6.5 ft) |

**Personal Computer (Optional)
579785 (8990-00)**



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

Specifications

| Parameter | Value |
|---------------------------|---------------------------------|
| Power Requirements | |
| Current | 2 A |
| Service Installation | Standard single-phase ac outlet |

Serial-to-USB Converter (Optional)
775477 (34879-00)



The Serial-to-USB Converter converts a standard serial port to a USB port.

Programmable Logic Controller (Manuals on CD-ROM) (Optional)
585276 (88270-A0)

List of Manuals

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

Reflecting the commitment of Festo Didactic to high quality standards in product, design, development, production, installation, and service, our manufacturing and distribution facility has received the ISO 9001 certification.

Festo Didactic reserves the right to make product improvements at any time and without notice and is not responsible for typographical errors. Festo Didactic recognizes all product names used herein as trademarks or registered trademarks of their respective holders. © Festo Didactic Inc. 2021. All rights reserved.

Festo Didactic SE

Rechbergstrasse 3
73770 Denkendorf
Germany

P. +49(0)711/3467-0
F. +49(0)711/347-54-88500

Festo Didactic Inc.

607 Industrial Way West
Eatontown, NJ 07724
United States

P. +1-732-938-2000
F. +1-732-774-8573

Festo Didactic Ltée/Ltd

675 rue du Carbone
Québec QC G2N 2K7
Canada

P. +1-418-849-1000
F. +1-418-849-1666

www.labvolt.com

www.festo-didactic.com