

# ControlLogix PLC Bundle – Educational 588519 (3539-50)

**FESTO**

LabVolt Series

Datasheet



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## General Description

This bundle includes an Allen-Bradley ControlLogix PLC, one copy of RSLogix 5000 Full Edition and a user guide.

## List of Equipment

Qty	Description	Model number
1	ControlLogix and CompactLogix Programmable Logic Controllers (User Guide) _____	585159 (86030-E0)
1	Studio 5000 Logix Designer Full Edition _____	587895 (5935-10)
1	Programmable Logic Controller (AB ControlLogix) _____	589122 (46965-10)

## Manual

Description	Manual number
ControlLogix and CompactLogix Programmable Logic Controllers (User Guide) _____	585159 (86030-E0)

## Additional Equipment Required to Perform the Exercises (Purchased separately)

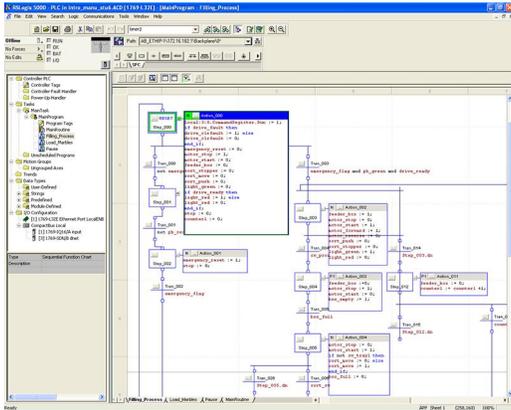
Qty	Description	Model number
1	Touch-Screen Computer – Large _____	589677 (46299-A0)

## System Specifications

Parameter	Value
<b>Power Requirement</b>	
Current	4.0 A
<b>Inputs</b>	
Analog (8)	4-20 mA analog inputs
Digital (16)	24 V dc contact inputs
<b>Outputs</b>	
Analog (8)	4-20 mA analog outputs
Digital (8)	24 V dc relays (normally open and normally closed contacts)
<b>Number of PID loops</b>	8
<b>Number of fault switches</b>	10
<b>Communication</b>	Ethernet
<b>Communication protocol</b>	HART compatible
<b>Configuration</b>	From a computer using RSLogix 5000

# Equipment Description

## Studio 5000 Logix Designer Full Edition 587895 (5935-10)



Studio 5000 Logix Designer is a Windows-based application, produced by Rockwell Software™, used to build programs for PLCs.

Studio 5000 Logix Designer provides a powerful integrated interface allowing users to easily build programs using four programming languages: relay ladder, structured text, sequential function chart, and function block diagram. The software allows students to concentrate on the logic aspects of PLC programming instead of spending time on complex syntax. It also features drag-and-drop editing, search-and-replace functions, and tools for verifying programs before running them on a PLC. Studio 5000 Logix Designer can be used to program a

PLC via the built-in RS-232 port or via an Ethernet link. The software comes with RSLinx lite which provides the functionality required to support RSLogix and RSNetWorx.

The following versions are available:

- 5935-0: Studio 5000 Logix Designer Lite Edition (Educationnal)
- 5935-A: Studio 5000 Logix Designer Lite Edition (Commercial)
- 5935-1: Studio 5000 Logix Designer Full Edition (Educationnal)
- 5935-B: Studio 5000 Logix Designer Full Edition (Commercial)

## Specifications

Parameter	Value
Included Software	RSLogix 5000 and RSLinx Lite
Available Languages	Relay Ladder, structured text, sequential function chart, and function block diagram.
Computer Requirements	Pentium IV 2.8 GHz, 1 GB of RAM, at least 16 GB of free hard disk space, and a 1024 x 768 True Color graphics device. Recommended: Intel i5 2.4 GHz processor, 8 GB of RAM, 20 GB of free hard disk space, and DirectX 9 graphics device with WDDM 1.0 or higher. Compatible operating systems: Windows XP Professional with SP3, Windows 7 Professional (64-bit) with SP1 or Home Premium (64 or 32-bit) with SP1.

## Programmable Logic Controller (AB ControlLogix) 589122 (46965-10)



The Programmable Logic Controller (AB ControlLogix) consists of a controller from the Allen-Bradley family. This powerful PLC comes with sixteen 24 V dc inputs, eight 4-20 mA HART inputs, eight 24 V dc output relays and eight 4-20 mA HART outputs hardwired to both banana jacks and terminal blocks on the module front panel. Banana jacks provide an easy and fast way to wire a setup, while terminal blocks allow students to wire their setup in a way much closer to what is commonly found in the industry.

The ControlLogix PLC supports EtherNet/IP. The EtherNet/IP communication ports are located on the PLC processor. A USB port, also located on the PLC processor, can be used to transfer a program into the PLC.

The ControlLogix PLC can be programmed using Rockwell's RSLogix 5000 Full Edition software (Model 5935-1 or -B) in any of four languages: relay ladder, structured text, sequential function chart, and function block diagram. The module has ten switches that the instructor can use to insert faults.

## Optional Equipment Description

### Touch-Screen Computer – Large (Optional) 589677 (46299-A0)



The Touch-Screen Computer is a solution for saving space in the classroom. It features a large 23-inch touch-screen and a high-speed processor. It can be installed on a full-motion mount, model 3451-A0 or 3451-B0, on the Instrumentation Workstation to maximize desk space.

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.

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