

Advanced PLC Training System (Siemens) 595849 (3355-A0)

FESTO

LabVolt Series

Datasheet



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General Description

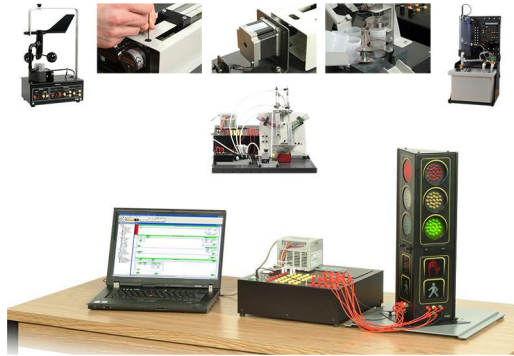
Programming a PLC efficiently requires a strong familiarity with the specifics of the programming environment and languages. This is exactly the purpose of the Advanced PLC Training System with high-end products from Siemens.

This training system allows students to acquire hands-on experience with industrial control equipment. Realistic examples are used to motivate students. These examples are displayed on the graphic terminal, and correspond to real PLC applications that can be interfaced with the trainer.

The system comprises industrial components of the latest technology: a Siemens S7-1200 controller, a 7" widescreen TP700 Comfort Panel with PROFINET, MPI/PROFIBUS DP, and USB interfaces, and a SCALANCE XB005 unmanaged industrial Ethernet switch. Several inputs (16 digital inputs, including 6 high-speed counters, and 4 universal analog inputs) and outputs (14 digital outputs, including 4 high-speed outputs, and 2 configurable analog outputs) are accessible from the front panel using 2-mm test leads. Controls and lights can also be connected. Eight switches allow the addition of electrical faults during troubleshooting exercises. A SysLink interface allows connection to Modular Production System (MPS) stations from Festo.

The system also comprises a one-seat license of the SIMATIC WinCC (TIA Portal) Engineering Software.

PLC applications developing students' understanding



PLC Applications, Series 8075, aim to further develop the students' understanding of PLC programming. These small-scale systems are typical of what can be found in the industry. The systems' training capabilities are enhanced by their modularity and their instructor-inserted faults.

The modules of the PLC Applications Series can be interconnected with

those of other Festo training systems for interdisciplinary training applications. The PLC Applications series is divided into seven systems, each system covering a specific topic related to PLC controls:

- Traffic Lights
- Electro-Pneumatics
- Electro-Mechanical – DC Motor
- Electro-Mechanical – Stepper Motor
- Wind Turbine
- Level Process Control
- Bottling Process

The exercises provided with the Advanced PLC Training system are inspired by the Traffic Lights, Electro-Pneumatics, and Level Process Control applications. Students can connect these additional components while developing their programs or simulate the inputs and outputs instead.

Topic Coverage

- Familiarization with WinCC (TIA Portal)
- Using standard PLC instructions, and understanding PLC addressing and operation
- Programming in four different IEC 61131 languages: ladder, sequential function chart, function block, and structured text.
- Designing human-machine interfaces
- Troubleshooting

Features & Benefits

- Work with Siemens software and hardware that are commonly used in industrial environments.
- Rely on comprehensive learning resources.
- Optimize space usage with this compact, portable system, mounted in a rugged suitcase with casters for easy transportation and safe storage.
- Develop industry-relevant skills for successfully performing automation and maintenance tasks.

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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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