Pneumatics Training System
6081-00

Festo Didactic
en 220 V - 50 Hz
02/2022
## General Description

The Pneumatics Training System from LabVolt was re-engineered and replaced by the two following Festo Didactic equipment sets in fluid power:

- Pneumatics – Basic level – TP 101 America – Equipment set
- Electropneumatics – Basic level – TP 201 America – Supplementary equipment set TP 101 A – TP 201 A

Click on the links for more information about these systems (topic coverage, list of components, etc.)

Please note that the legacy systems listed below are shown for information purposes only, as the new equipment sets replace them:

## Innovative design

Engineered for extreme ease of use, the basic system comes with a work surface assembly consisting of a solid metal, universal drip-tray hinged to a perforated, tiltable work surface on which pneumatic components can be mounted.

The work surface can be configured to accommodate a wide variety of space and teaching needs. Lying flat over the drip tray, or tilted at 45°, the work surface provides a large area on which pneumatic components and space-expanding work surfaces can be mounted at any location, either at 0° or 90°.

Mounting and removing components is especially easy with the quick-lock system that secures the component base plate to the work surface.

Although the system is designed to operate atop a regular work table, an optional bench is available to provide mobility and storage space. Mounted on four heavy-duty, swivelling, lockable castors, the bench provides shelving for extra work surfaces and components. Optional dressing panels are also available to fully enclose the bench and provide storage area for components.

The work surfaces may also be linked together for more complete electro-pneumatic/hydraulic circuits. By utilizing the optional work surfaces, exercise setups can be saved.

Two student groups can simultaneously work on a bench when the Work Surface (Dual A-Frame), Model 6301-1, is used. All components meet industrial safety standards, are identified with the proper ANSI symbol, and are equipped with quick-connect fittings.
Virtual Laboratory Equipment

All components contained in the Pneumatics Fundamentals and Electrical Control of Pneumatic Systems can be simulated using the Windows®-based Pneumatics Simulation Software (LVSIM®-PNEU), Model 6485. The simulated components can be interconnected and their operation studied, using the same courseware as that used for the real equipment.

Courseware

The courseware consists of a student manual for each training system. The student manuals are divided into several units, each consisting of a series of hands-on exercises dealing with one of the pneumatics fields. Each exercise provides a clearly stated objective, a discussion, textbook references, a summary of the exercise procedure, a detailed exercise procedure, a conclusion, and a set of review questions.

A ten-question test at the end of each unit allows students to verify what was learned in the unit. Refer to the tables of contents of the manuals for a list of the topics covered in the student manuals.

The instructor guides contain the measurement results as well as the answers for each hands-on exercise of the student manuals, and the answers to the unit test questions.

The courseware also includes a reference textbook, optional instructional DVDs, and courseware figures. These figures are available in the form of transparencies and on CD-ROM. Furthermore, all student manuals and instructor guides are available, as an option, in Job Sheet format.

eLearning Systems

The courseware is also available in three eLearning formats for users who prefer a computer-based approach:

- eSeries, facilitated by the Mind-Sight eLearning System. See Pneumatics Fundamentals eSeries, Model 6486-E, and Advanced Hydraulics eSeries, Model 6486-1.

- SCORM-based, designed to be hosted by a third-party, SCORM 1.2 compliant Management System. See Pneumatics Fundamentals SCORM, Model 6486-F, and Advanced Pneumatics SCORM, Model 6486-2.

- Stand-alone, available on CD-ROM. This format runs on a web browser and does not require any management system. See Pneumatics Fundamentals Stand-Alone, Model 6486-G, and Advanced Pneumatics Stand-Alone, Model 6486-3.
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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