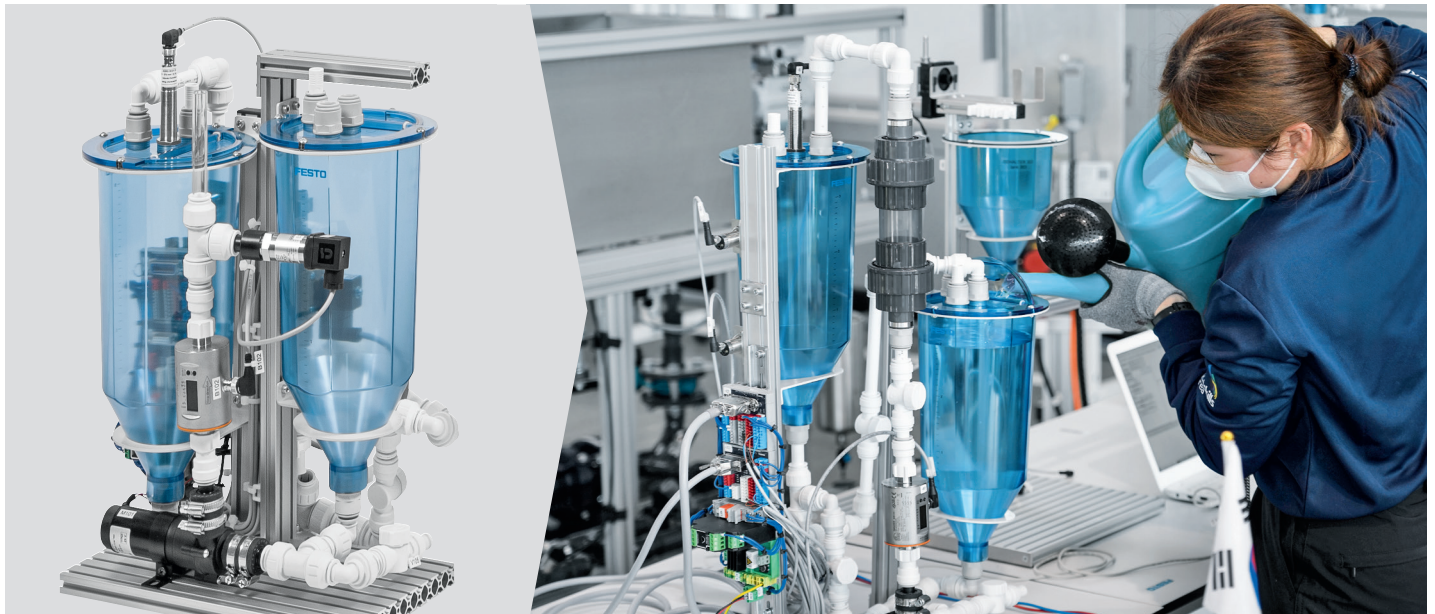


EduKit PA

An Introduction to Process Automation and Closed-Loop Control



Highlights

- Compact, safe learning system for hands-on experimentation
- Courseware available on Festo LX or as workbooks
- Manual and automated measurement and control of common process variables
- Modular design with expansion options
- Suitable for various skill levels, including STEM learners

Introducing beginners to the control of continuous process variables is no easy task. Concepts are abstract, students have little intuition for dynamic system behavior, and real industrial systems are often too complex, expensive, or risky for first-time learners. EduKit PA is an effective entry point.

Our solution

EduKit PA offers a simple yet realistic setup that lets students explore the measurement and control of flow, pressure, and level, and the hardware required for open- and closed-loop control. Visualization tools make abstract control concepts easy to grasp, as learners see in real time how their adjustments affect the system. A project-based curriculum and intuitive software programs reinforce skill development.

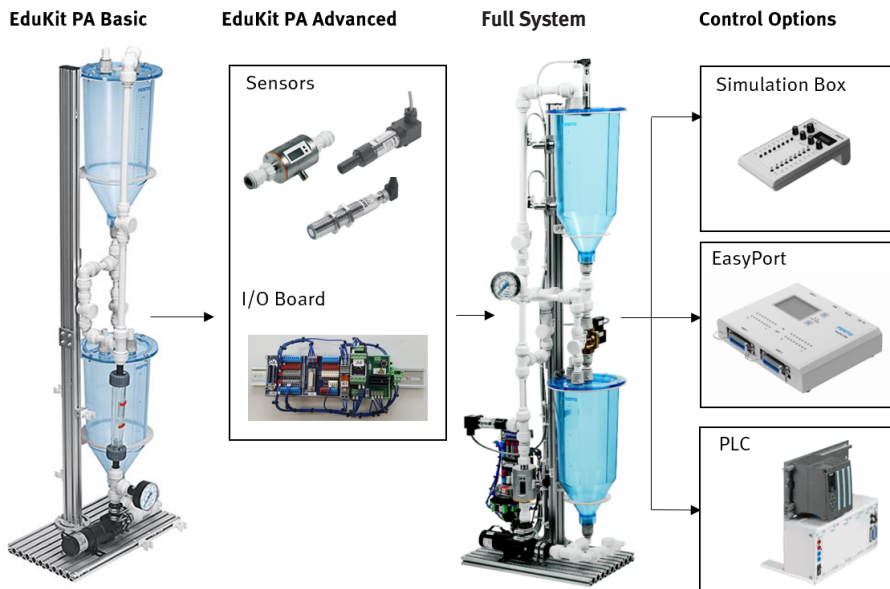
Your benefits

- Reduce preparation effort: Use ready-to-teach courseware, software, and hardware to cut setup, troubleshooting, and planning time.
- Explain complex topics clearly: Demonstrate feedback, PID, and process behavior through visual, hands-on experiments.
- Integrate smoothly into courses: Fit a compact, safe, modular system into existing curricula and limited lab schedules.

EduKit PA

Configure a System Tailored to Your Needs

Two versions, several options



The **EduKit PA Basic** teaches the basic principles of project work and the fundamentals of process technology – manual measurement, open-loop control—without a PC or sophisticated control technology.

The **EduKit PA Advanced** is a set of components that supplements the EduKit PA Basic with the topics of automated measurement, closed-loop control, sensors, and electrical interfaces.

Various **control options** support different skill levels—from PC-based simulation to USB I/O to real industrial control—so students can progress from basic visualization to full PLC-based automation on the same process.

Optional components such as valves, 2-way ball valves and float switches expand the EduKit PA into a flexible learning playground for additional experiments, enhancing practical process engineering instruction in the classroom.

A **wattmeter** lets students directly measure electrical power consumption and link energy use to real process operation.

As IT integration in business operations grows, demand for interdisciplinary experts rises. The **IoT Kit** meets this demand, enabling networked processes in a compact tabletop format.

Topic overview

- Project planning
- Assembly and wiring of mechanical and electrical setups
- System commissioning and operation
- Measuring technology
- Control technology
- Regulation techniques
- Data acquisition
- System maintenance and troubleshooting
- Energy measurement and monitoring
- And more

Software support



FluidLab-PA Process turns EduKit PA into a complete, visual process workstation with ready-made plant displays, built-in control (including PID), and data trending, so students can quickly understand and analyze real process behavior without programming.

FluidLab-PA Closed-Loop lets more advanced users design, analyze, and optimize control loops in depth—tuning and comparing controllers, studying dynamics and stability.



Preview the courseware:

- [EduKit PA Basic](#)
- [EduKit PA Energy](#)
- [Plant Construction](#)
- [Manual Measurement, Open- and Closed-Loop Control](#)

Interested?

Visit our → [website](#) or reach out to your Festo Didactic representative to learn more about the EduKit PA.

