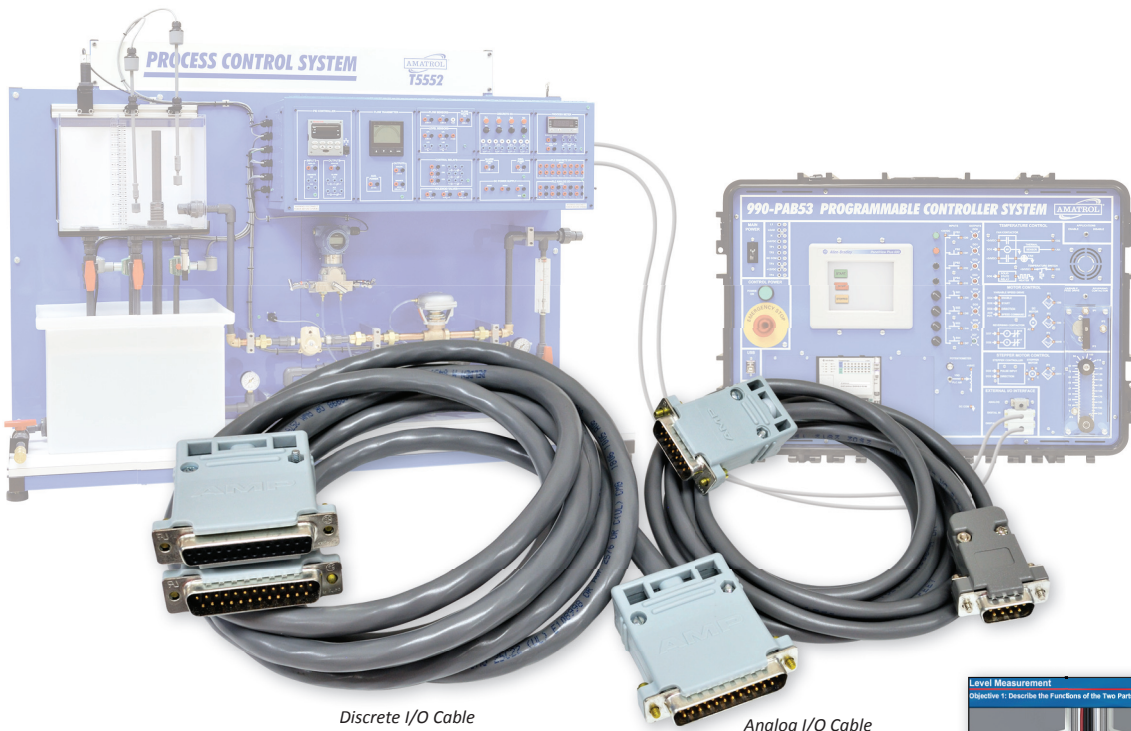


PLC Process Control Learning System – CompactLogix L16

99-PCAB53A

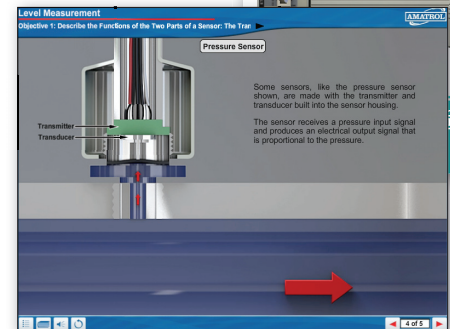
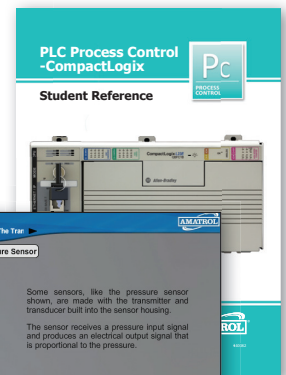


Discrete I/O Cable

Analog I/O Cable

99-PCAB53A shown with required 990-PAB53A and T5552

Student Reference Guide



Interactive Multimedia Curriculum

Learning Topics:

- On/Off Control with Discrete Input
- On/Off Control with Analog Input
- ControlLogix Routine
- Open Loop Control
- Diaphragm Valves
- 3-Way Proportional Valves
- Closed Loop Control
- ControlLogix PID Instruction
- Closed Loop Performance
- Closed Loop Tuning

Amatrol's PLC Process Control Learning System – AB CompactLogix L16 (99-PCAB53A) lets learners perform skills designed to teach the basics of PLC-based process control and its various applications. The 99-PCAB53A covers on/off and open loop control methods by allowing learners to use Amatrol's Portable Programmable Logic Controller Learning System (990-PAB53A) to control the Level and Flow Process Control Learning System (T5552). This learning system is vital for anyone currently working in or interested in the field of PLC automation or process control, which is used in pharmaceutical plants, refineries, and chemical manufacturing facilities.

The 99-PCAB53A includes an analog cable set, a discrete cable set, multimedia curriculum, a student reference guide, and a supplemental disk. Learners will use these components and materials to study on/off control with both discrete and analog inputs, open loop control, diaphragm valves, ControlLogix PID instruction, and much more!



Technical Data

Complete technical specifications available upon request.

Analog Cable Set
Discrete Cable Set
Multimedia Curriculum
Instructor's Guide
Installation Guide
Student Reference Guide
Supplemental Disk

Additional Requirements:

Portable Allen-Bradley PLC Learning System (990-PAB53)
Level and Flow Process Control System (T5552)

Amatrol's Process Control Expanded to Include PLC Control!

The 99-PCAB53A connects the Portable Programmable Logic Controller's (990-PAB53A) inputs and outputs to the Level and Flow Process Control Learning System (T5552), which allows the PLC program to receive data from the T5552's sensors. This learning system focuses on PLC skills and practicing actual industrial applications in process control for learners considering careers in industries like pharmaceutical production, fuel refinement, and chemical manufacturing. This learning system expands the skill sets offered by the 990-PAB53A and the T5552, which already feature a strong breadth and depth of knowledge and hands-on practice. The 99-PCAB53A allows learners to gain even more applicable real-world skills after they've mastered the topics offered by the required learning systems, the T5552 and the 990-PAB53A.



Practice Hands-On PLC-Operated Process Control Skills

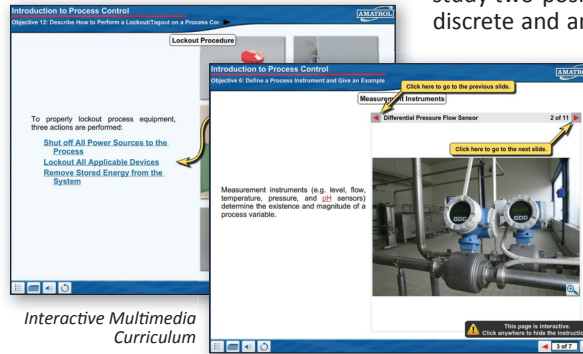
In addition to the interactive multimedia, the 99-PCAB53A also features hands-on skills to develop a learner's confidence and competence when working on real-world systems. These skills feature step-by-step explanations of what is being accomplished and why each step is important towards the fulfillment of the process. This depth understanding prevents cookbook like instructions where the learner merely follows along without comprehending why they're doing it. This learning system includes skills such as designing a ControlLogix routine to control an on/off process control system, enter a ControlLogix ladder routine that uses a PID instruction to control level, and design a ControlLogix routine to provide open loop control of a diaphragm valve.

Siemens PLCs Option for PLC-Controlled Process Control

In addition to the Allen-Bradley, Amatrol also offers a PLC-controlled process control system for Siemens S7-1200 PLC featured on Amatrol's Portable Programmable Logic Controller Learning System (990-PS712). This alternative further expands Amatrol's offering for training to build real-world PLC process control skills.

Study Real-World PLC Applications on a Process Control System!

The 99-PCAB53A's curriculum focuses on PLC-controlled level and flow applications in two-position, open loop, and closed loop systems. As an example of the curriculum's depth, learners will study two-position process control systems with both discrete and analog inputs by studying the operation of each. Two-position control is a control method commonly used in process control applications to maintain a process variable within a specified operating range. This curriculum is presented within a stunning, highly interactive multimedia format that allows learners to explore the presented topics through text, audio narration, 3D animation, video, and interactive quizzes and games.



Student Reference Guide

A sample copy of the PLC Process Control – AB CompactLogix Student Reference Guide is also included with the system for your evaluation. Sourced from the system's multimedia curriculum, the Student Reference Guide takes the entire series' technical content contained in the learning objectives and combines them into one perfect-bound book. Student Reference Guides supplement this course by providing a condensed, inexpensive reference tool that learners will find invaluable once they finish their training making it the perfect course takeaway.

