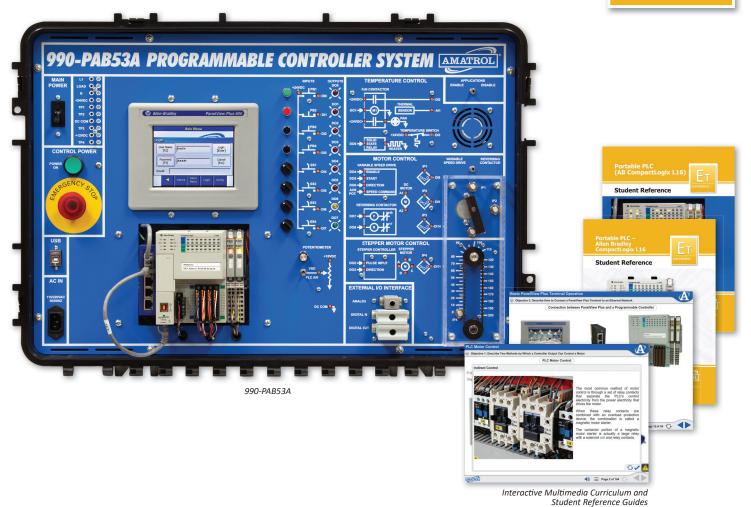
# **Portable PLC Learning System -AB CompactLogix L16**

990-PAB53A





# Learning Topics:

- Programmable Controller Operation
- PanelView Plus Terminal Operation
- PLC Program Operations
- PLC Programming
- PLC Motor Control
- PLC Timer and Counter Instructions
- Event Sequencing
- Program Control Instructions
- Math and Data Move
  Instructions
- PanelView Plus Application Editing
- Analog Inputs & Outputs
- Variable Output Applications

Amatrol's Portable PLC Learning System – AB CompactLogix L16 (990-PAB53A) teaches programmable logic controller (PLC) programming, operation, and applications used throughout industry. Despite its compact, convenient size, this portable system features highly-interactive multimedia curriculum that teaches 90 skills across 14 different modules.

The system provides hands-on experience with real-world components, including the powerful Allen-Bradley L16 CompactLogix 5300 PLC, a PanelView Plus terminal, an Ethernet Switch, an I/O Simulator, five application circuits, and a master control relay circuit. Learners will study industry-relevant applications that will build a strong foundation for a successful career in a variety of industries.



#### **Technical Data**

Complete technical specifications available upon request.

**Portable Case** Allen-Bradley L16 CompactLogix 5300 PLC **Circuit Breaker** Master Control Relay Circuit PanelView Plus 600 HMI Panel Ethernet I/P Port 12 & 24 VDC Power Supplies 24VDC Digital Inputs and Outputs (16) 10V Analog Inputs (4) and Outputs (2) I/O Simulator 1 Green Normally-Open Pushbutton 1 Red Normally-Closed Pushbutton 2 Black Normally-Open Pushbuttons 4 Two-Position Selector Switches 6 Red Indicators 1 Yellow Indicator 1 Green Indicator 1 Potentiometer for Analog Input Adjustment Thermostatic Temperature Application Analog Temperature Application **Reversing Motor Starter Application** Variable Speed Motor Control Application **Stepper Motor Control Application** Cables (USB & Cat 5E) Multimedia Curriculum (M40085) Instructor's Guide (C40085) Installation Guides (D40085/D40261) Student Reference Guides (H19732/H19734) Additional Requirements: RS Logix 5000 PLC Programming Software (82-8RSMI) or RS Logix 5000 Mini PLC Programming Software (82-8RSM) (Optional: RS Logix 5000 PLC Programming Software for Education (82-800 or 82-800-I)) FactoryTalk View ME Programming Software (82-711)

Computer (Visit www.amatrol.com/support/ computer-requirements for details.) Utilities Required:

Electricity: 100-240 VAC, 50-60 Hz, 1 phase

## **Rich Applications: Basic Through Advanced**

The 990-PAB53A includes application circuits and components for thermostatic temperature control, analog temperature control, reversing constant-speed motor control, variable speed motor control with feedback, and stepper motor homing and commissioning. These circuits include basic and advanced applications starting with discrete I/O projects and extending to projects involving analog I/O. These applications enhance a learner's experience because they can actually see how a program controls real systems.



# In-Depth Curriculum with PanelView Plus Terminal and Networking



Amatrol's in-depth curriculum teaches a wide range of analog, discrete, data, and networking commands. Designed to teach modern PLCs as they are used to-

> day, the PanelView Plus terminal and networking are introduced in the basic lessons and applied throughout the curriculum. Learners cover a wide variety of program commands beyond timers and contacts, such as stepper motor, PWN, and analog control. This curriculum is presented in a highly-interactive, multimedia format that includes stunning 3D graphics and videos, voiceovers of all text, and interactive quizzes and exercises.

### **Student Reference Guides**

Sample copies of the Portable PLC – Allen Bradley CompactLogix L16 and Portable PLC (AB CompactLogix L16) Student Reference Guides are

also included with the system for your evaluation. Sourced from the system's curriculum, the Student Reference Guides take the entire series' technical content contained in the learning objectives and combine them into perfectly-bound books. Student Reference Guides supplement this course by providing condensed, inexpensive reference tools that learners will find invaluable once they finish their training, making them the perfect course takeaways.



### **Options for Expanded Learning**

For those interested in PLC troubleshooting, Amatrol offers the Portable PLC Troubleshooting Learning System – AB CompactLogix L16 (990-PAB53AF) with FaultPro. FaultPro's computer-based



faults automatically track progress, enabling learners to gain troubleshooting skills in a self-paced environment that ensures that faults are inserted safely, protecting both learners and equipment. The troubleshooting system includes a variety of electronic faults that present realistic situations that technicians encounter on the job. This allows learners to develop important PLC troubleshooting skills, like PLC input and output testing, software testing, and application troubleshooting.



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