

Mechatronics HMI Terminal Learning System – CompactLogix L16

87-HMIAB53A

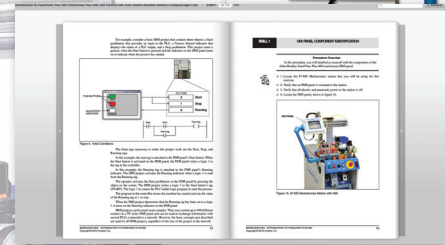


Student Reference Guide

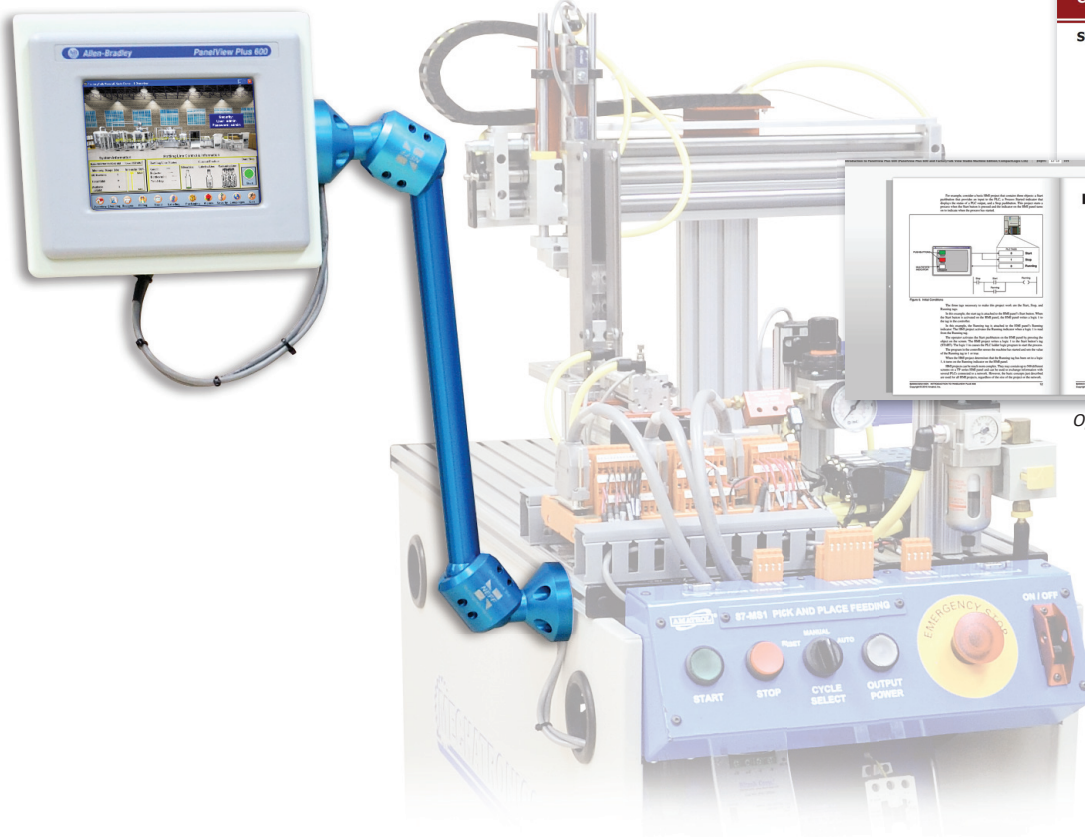
Mechatronics HMI - CompactLogix L16



Student Reference



Optional eBook Curriculum



87-HMIAB53A shown with 87-MS1

Learning Topics:

- PanelView Plus 600 Terminal Construction
- PanelView Plus 600 Terminal Operation
- HMI Panel Component Identification
- PanelView Plus 600 Terminal Configuration
- Connecting an HMI Terminal to a CompactLogix Controller
- FactoryTalk View Studio — ME Software Operation
- Application Editing
- Application Displays
- Input and Output Objects
- Numeric Input/Output

Amatrol's Mechatronics HMI Terminal Learning System – CompactLogix L16 (87-HMIAB53A) teaches learners how to use a human-machine interface (HMI) to control and monitor an automated line. Used in conjunction with Amatrol's 870 Mechatronics stations with Allen-Bradley CompactLogix L16 programmable logic controllers, the 87-HMIAB53A will teach current or future machine operators, maintenance technicians, and supervisory personnel how to use an HMI to control and monitor the status of a machine or process.

The system features a PanelView Plus 600 HMI with a 6" screen, an HMI terminal module, an Ethernet cable, and a workstation pedestal mounting module. Also included are an Instructor's Guide, an Installation Guide, and a three-part Student Learning Activity Packet containing a comprehensive curriculum focused on relevant HMI knowledge and hands-on skills. The curriculum is also available in an optional eBook format.



Technical Data

Complete technical specifications available upon request.

PanelView Plus 600 HMI
HMI Terminal Module
Ethernet Cable
Workstation Pedestal Mounting Module
Curriculum (B25003)
Instructor's Guide (C25003)
Installation Guide (D25003)
Student Reference Guide (H25003)
Additional Requirements:

Mechatronics Learning System - CompactLogix L16 (870-AB53A)
Mechatronics Station(s) (87-MS1-7)
FactoryTalk View Studio — ME Software (82-711)
Mechatronics Ethernet/IP Learning System (87-ENAB53A)
Studio 5000 PLC Programming Software (Version 23 or 24) (82-800) or Studio 5000 Mini PLC Programming Software (82-8RSM)
Computer (Visit www.amatrol.com/support/computer-requirements for details.)

Options:

eBook Curriculum (E25003)

HMI Training for Real-World Applications

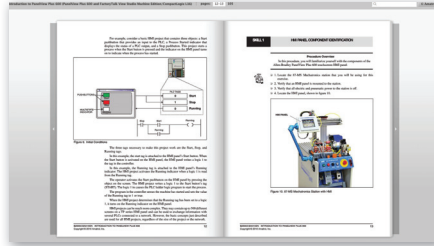
Flexible and feature-rich, HMI panels allow machine operators, maintenance technicians, and supervisory personnel to control and monitor the status of machines and processes on automated lines. As technology has advanced, HMI panels have replaced traditional hard-wired operator inputs and outputs in virtually all mechatronics control and/or monitoring applications in most industries around the world. The 87-HMIAB53A represents Amatrol's ongoing commitment to bridging the skills gap with technical training tools backed by robust curriculum materials that focus on the hands-on skills required to thrive in today's advanced manufacturing environments.



87-HMIAB53A

In-Depth Curriculum Teaches Hands-On Skills

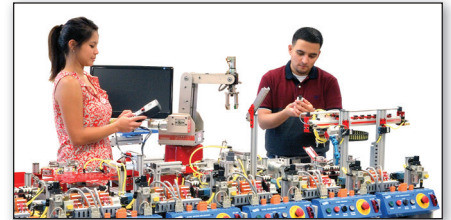
Amatrol's in-depth curriculum seamlessly weaves together theoretical knowledge with hands-on skills to solidify understanding and create a strong basis for pursuing more advanced skills. The 87-HMIAB53A's curriculum teaches learners about the construction, operation, and configuration of an HMI panel, the operation of FactoryTalk View Studio — ME software, and application editing topics, such as application displays, input and output objects, and numeric input/output. After studying these topics, learners will then practice hands-on skills, such as configuring communications settings, connecting an HMI to a network, transferring an integrated project, and operating an HMI panel.



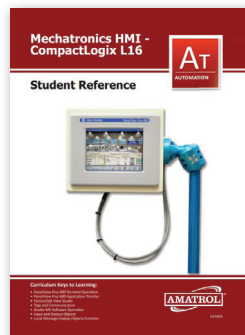
Optional eBook Curriculum

Amatrol's World-Class Mechatronics

The 87-HMIAB53A can be integrated into any of Amatrol's mechatronics learning systems for HMI control and monitoring. These advanced mechatronics systems bring real-world industrial components into the classroom and help to build a broad array of job-ready skills in integrated technologies. Learners can make precision physical adjustments and program the systems to assemble a minimum of four different variations of directional control valves.



Amatrol's Mechatronics Learning Stations



Student Reference Guide

A sample copy of the Mechatronics HMI — CompactLogix L16 Student Reference Guide is also included with the system for your evaluation. Sourced from the system's curriculum, the Student Reference Guide takes the entire series' technical content contained in the learning objectives and combines them into one perfectly-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.

