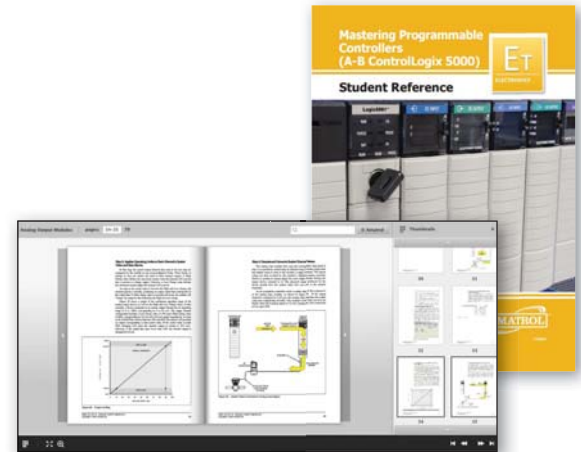




89-AS-AB5500 Learning System



Optional eBook and Student Reference Guide

## Learning Topics:

- Analog Module
- Operation Analog Module Installation
- Analog I/O Programming
- Analog Tag Structures
- Analog Troubleshooting
- Analog I/O Interfacing
- Analog Applications
- Module Resolution
- Analog Scaling
- Scaling Instructions

The 89-AS-AB5500 PLC Analog Learning System adds to the 890-PEC-B and 890-AB5500 ControlLogix PLC Troubleshooting Learning System to teach PLC control of analog input and output devices. Analog I/O capability enables PLCs to more precisely control processes by providing variable output signals and receiving variable input feedback from sensors. Applications include temperature control, liquid level control, and variable speed conveyors just to name a few.

The 89-AS-AB5500 provides a self-contained learning platform for study of analog control. The analog application station includes a 10-turn potentiometer with 0 – 10 VDC signal and digital readout to provide an analog input to the PLC analog module, while the analog output from the PLC is displayed on a second digital readout. Power for the station is supplied from the 890-PEC-B.



## Technical Data

Complete technical specifications available upon request.

### Analog Application Station

Mounting panel, steel gauge construction  
Master I/O connector, edge type, 42 pin  
Analog input display, LCD-type, 3.5-in.  
External input signal selector switch, 4 channel  
External input selector switch, internal/external  
Input node selector switch, internal/external  
Internal input potentiometer, 10-turn, 0-10 vdc  
Analog output signal selector switch, current/  
voltage  
External output channel selector switch, 4 channel  
Discrete input indicators, 24 vdc (8)  
Discrete output indicators, 24 vdc (8)  
External discrete I/O interface connector, 25-pin,  
DB-type  
Terminating plug, external analog I/O

### Cable Assembly

Analog I/O Cable

### Analog Module

Combination type  
Analog input channels, (4)  
Input configuration options: 0-20mA or +- 10 VDC  
Analog output channels, (2)  
Output configuration options: 0-20mA or +- 10 VDC

### Student Curriculum (40661)

### Instructors Guide (40671)

### Installation Guide (40681)

### Student Reference Guide (H40661)

### Optional eBook (E40661)

### Additional Requirements:

PLC Troubleshooting Learning System (890-PECB)  
Control Logix PLC Troubleshooting Learning System  
(89-AS-AB5500)

## Amatrol Provides PLC Analog Training for Real-World Applications

The model 89-AS-AB5500 includes an analog application station, cable assembly, Allen Bradley Control Logix combination analog module, learning materials for both theory and hands-on and a teacher's assessment guide. Students will learn industry relevant skills including how to operate, interface, program and troubleshoot PLC systems using analog I/O. These industrial-grade components are an example of Amatrol's commitment to providing top-flight equipment and gives learners the opportunity to practice and gain experience on actual mechanisms that they'll work with on the job. The PLC Analog Learning System also provides a convenient, compatible interface to external analog devices, enabling students to extend their study of real world applications such as process control.

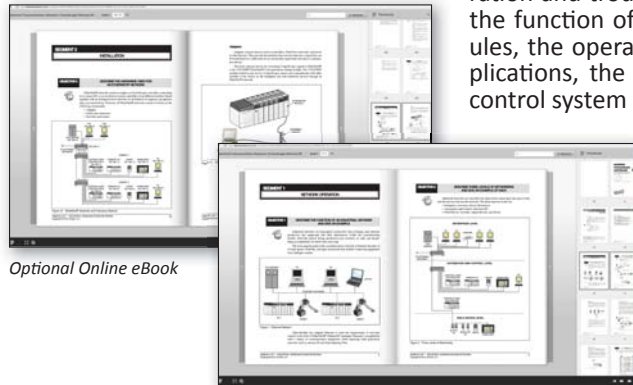


89-AS-AB5500 Interchangeable Application Station

## World-Class PLC Analog Curriculum with Optional Online eBooks

The 89-AS-AB5500 curriculum specifically focuses on analog input modules, analog input configuration and troubleshooting, analog output modules, and analog output configuration and troubleshooting. Learners will study the function of sensors and analog input modules, the operation of various ControlLogix applications, the function of a PLC-based on/off control system that uses an analog input and of

an output transducer, monitoring of analog output channel data, wireoff fault bits, and more. As an online option to the Learning Activity Packets (LAPs) Amatrol's eBooks look like a real book and allow users to flip between pages with ease.



Optional Online eBook

## Student Reference Guide

A sample copy of the PLC Analog Learning System Student Reference Guide is included with the learning system. Sourced from the 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. If you would like to inquire about purchasing additional Student Reference Guides for your program, contact your local Amatrol Representative for more information.

