# PLC ControlNet Learning System – ControlLogix

**89-CN-AB5500**

ELECTRONICS

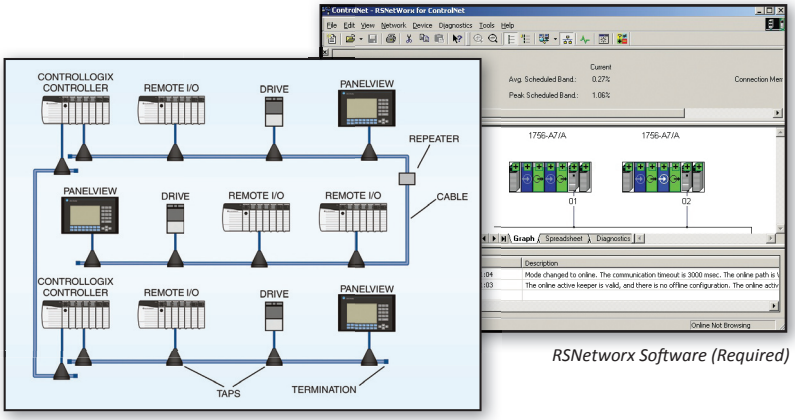


89-CN-AB5500




*Student Reference Guide and Optional eBook*






*ControlNet Network*



*RSNetworx Software (Required)*

## Learning Topics:

- Industrial Communication Networks
- Installation
- Network Operation
- Module Configuration
- Remote I/O
- Configuration
- Using RSNetWorx for ControlNet
- Remote I/O Tags
- Data Transfers Between Controllers
- Troubleshooting

The PLC ControlNet Learning System – ControlLogix (89-CN-AB5500) adds to the 890-PEC-B and 890-AB5500 PLC Troubleshooting Learning Systems to teach the fundamentals and troubleshooting of industrial communications networks using ControlNet, a popular ControlLogix control network. ControlNet is a high-speed deterministic network for transferring both scheduled and unscheduled messages on the same cable. The rapid exchange of data between departments within a manufacturing facility has become an integral part of the production process. Technicians must be able to understand, install, and troubleshoot these networks.

The 89-CN-AB5500 includes: two ControlNet modules, two ControlNet taps, ControlNet cable, supplemental disk, mounting hardware, and printed curriculum. The curriculum combines both theory and skills so that learners can study topics like communication network installation, module configuration, and remote input/output operation and then practice hands-on skills such as configuring the EtherNet/IP driver to communicate with ControlNet.

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## Technical Data

Complete technical specifications available upon request.

**ControlNet Modules (2)**
**ControlNet Taps (2)**
**ControlNet Terminators (2)**
**ControlNet Cable, 12'**
**Supplemental Disk**
**Mounting Hardware**
**Student Curriculum (40665)**
**Teacher's Assessment Guide (40675)**
**Install Guide (40685)**
**Student Reference Guide (H40665)**
**Optional Online eBook (E40665)**
**Additional Requirements**
- 890-PEC-B PLC Troubleshooting Learning System (2)
- 890-AB5500-B PLC Troubleshooting Learning System-AB ControlLogix (2)
- 89-EN-AB5500 PLC EtherNet Learning System-ControlLogix
- 82-708 RSNetworx Programming Software for ControlNet
- 89-OS Operator Application Station (2)
- 89-IOS I/O Simulator Application Station (2)
- 89-EP Electro-Pneumatic Application Station (2)
- 89-BCD BCD/LED Application Station (2)
- Optional eBook Requires Computer: Requirements: http://www.amatrol.com/support/computer-requirements

**Utilities**
- Power supplied by the 890-PEC-B

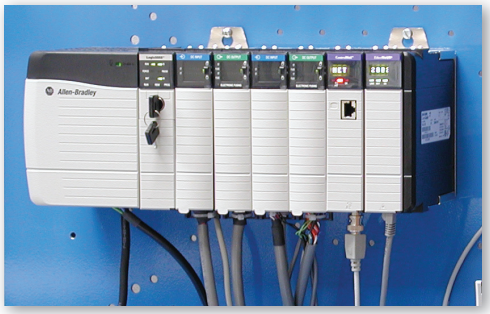
## Learn Real-World Applications Using ControlNet



ControlNet is an industrial network that transfers vital messages like input and output data, interlocks and commands to drives, and motion control data to multiple devices via a single cable at five megabytes per second! This network greatly improves production efficiency and gives users the flexibility to send unscheduled data without having to install an information network. The 89-CN-AB5500 gives learners the opportunity to study and practice real-world skills such as transferring data between controllers using produced and consumed tags and troubleshooting ControlNet network faults.

## Build Skills on an Industry-Grade PLC

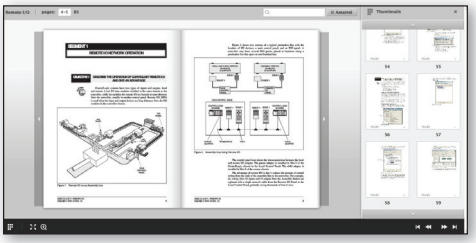
The two ControlNet modules included with the 89-CN-AB5500 plug into the powerful Allen-Bradley ControlLogix 5000 programmable logic controller (890-AB5500). The 89-CN-AB5500 teaches learners how to install the modules, add the modules to the ControlLogix I/O configuration, and configure the EthernetNet/IP driver to communicate with ControlNet. From there, learners will build real-world PLC skills like configuring a ladder routine that uses ControlNet remote I/O.



*890-AB5500 with 89-CN-AB5500 installed*

## Thorough ControlNet Curriculum Provides Real-World Knowledge and Skills

The 89-CN-AB5500's curriculum covers major ControlNet topics such as remote I/O, data transfers between controllers, produced and consumed data, and troubleshooting. This curriculum focuses on supplying strong theoretical ControlNet knowledge and then having learners immediately apply that knowledge to hands-on skills. This learning system also features an optional, online-only eBook version of the curriculum. This eBook includes all of the content found in the printed version of the curriculum, but adds features like zoom controls for page enlargement, searchable course content, and online quizzes and tracking.



*Optional eBook Curriculum*

## Student Reference Guide

A sample copy of the Mastering PLCs Reference Guide is included with the learning system. Sourced from the curriculum, the Student Reference Guide takes the entire series' technical content contained in the learning objectives and combines them into one perfect-bound book.




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