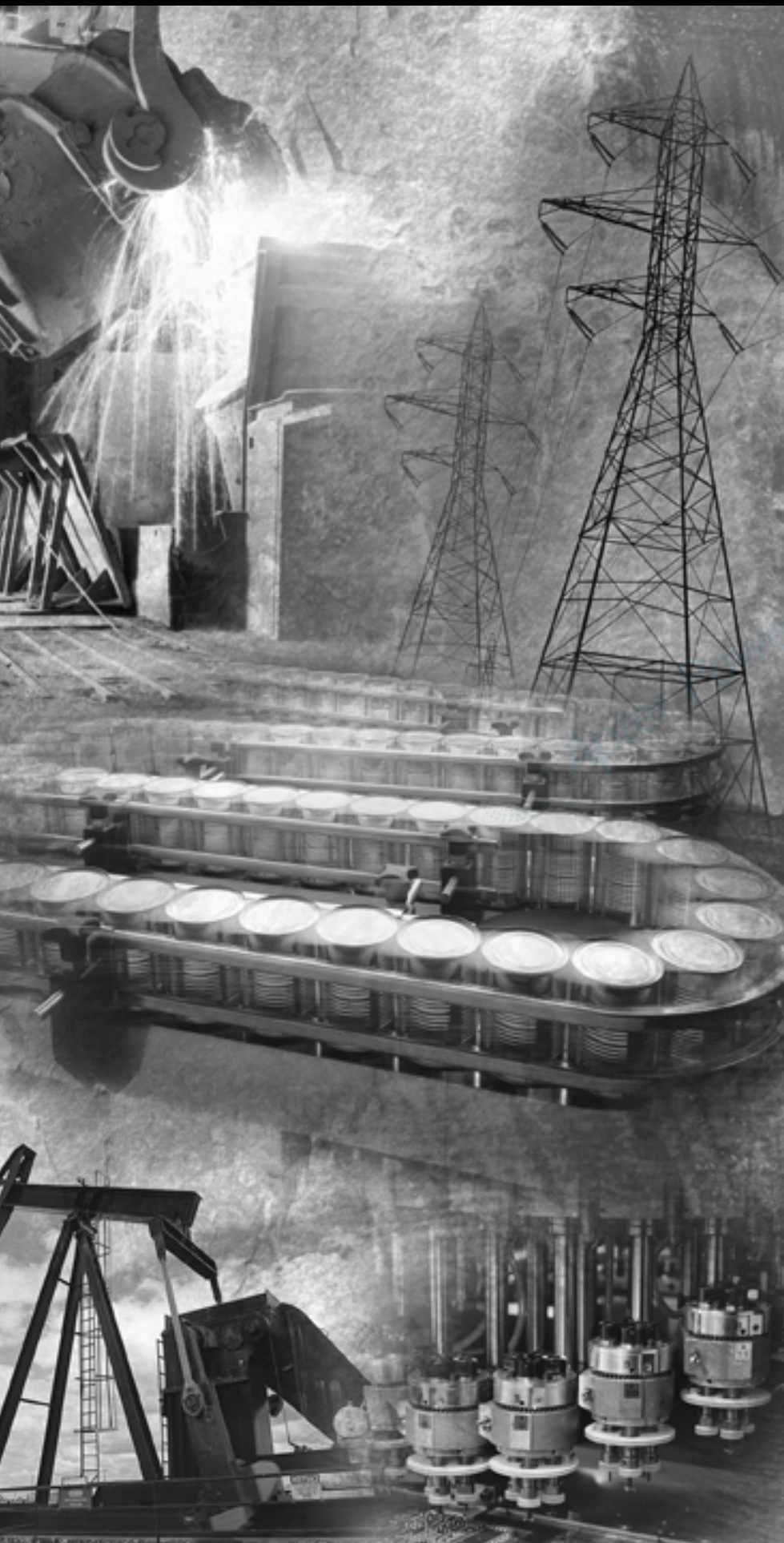




Allen-Bradley

POINT I/O ControlNet Adapter

1734-ACNR

User Manual

**Rockwell
Automation**

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About the Module

Chapter Objectives

This chapter describes the ControlNet adapter (Catalog Number 1734-ACNR) and contains the following main sections.

- adapter description and features
- hardware components that include diagnostic indicators, a network access port (NAP), and network address switch assemblies

This manual addresses the 1734-ACNR, Series A adapter that is compatible with ControlLogix, FlexLogix, and SoftLogix (5800). It is not compatible with PLC-5 and SLC processors. Use a Series B adapter (not released when we wrote this manual) with PLC-5 and SLC processors.

The 1734-ACNR adapter manages data transfers between controllers on the ControlNet network and POINT I/O modules plugged into the POINTBus backplane.

IMPORTANT

The 1734-ACNR adapter requires Series C POINT I/O modules or later.

The ControlNet network is a communication architecture that enables the exchange of messages between ControlNet products compliant with the ControlNet International specification.

The 1734-ACNR adapter features include a variety of control system solutions, a local communication network access through the network access port (NAP), and redundant media.

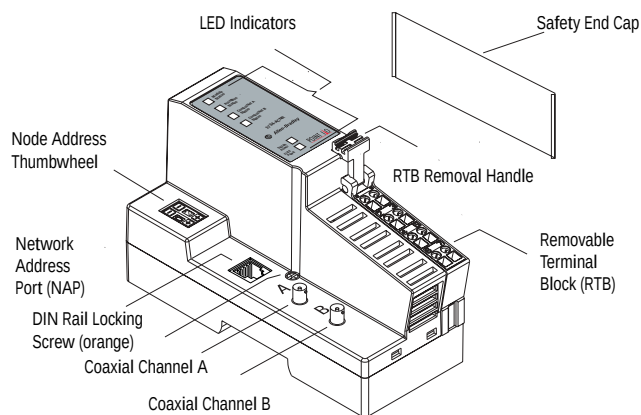
Hardware Components

Refer to the figure to see major components of the adapter.

Diagnostic Indicators

Health indicators on the front panel of the adapter describe both normal operation and error conditions in your remote I/O system.

For a description of the diagnostic indicators and status display and how to use them for troubleshooting, see the Diagnostics chapter of this manual.



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Network Access Port (NAP)

The network access port provides a bidirectional electrical interface for programming, maintenance, and I/O monitoring devices in both redundant and non-redundant connections.

Refer to the ControlNet Cable System Planning and Installation User Manual, publication CNET-IN002 for more information.

Network Address Switch Assemblies

You must set two switch assemblies to configure your adapter with its unique network (node) address. These switches are on the front of the module. Read these switches on power up to establish the network address of the module.

TIP

For optimum throughput, use lower numbers and assign sequential addresses to ControlNet nodes.