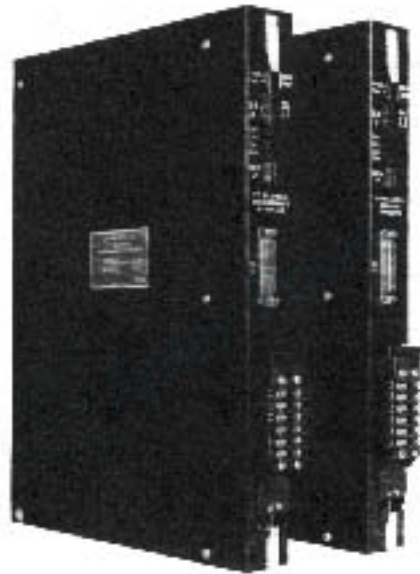


**ALLEN-BRADLEY**

Allen-Bradley I/O Scanner Modules

(Cat. No. 1775-S4A, -S4B)

Product Data



Description

The I/O scanner modules provide I/O and RS-232-C communication channels for the PLC-3 programmable controller. The two scanner modules are:

- I/O Scanner-Programmer Interface Module (cat. no.1775-S4A)
- I/O Scanner-Message Handling Module (cat. no. 1775-S4B)

Table [A](#) outlines the benefits, features, and functions for these modules.

Programming Interface

The 1775-S4A scanner provides an RS-232-C compatible channel (channel 5) that can communicate with the industrial terminal. You can use the industrial terminal to:

- enter and monitor ladder diagram program instructions
- enter and monitor data table values
- force inputs and outputs
- operate the PLC-3 LIST function
- load and record ladder diagram programs with a Data Cartridge Recorder (cat. no. 1770-SB) or Data Cassette Recorder (cat. no. 1770-SA)
- print out ladder diagram program through channel C interface to a printer

The number one 1775-S4A scanner supports operation of channel 0 on the PLC-3 front panel. If you are using channel 5 on the number one 1775-S4A scanner, you must make I/O channel 4 inactive through the PLC-3 LIST function.

Additionally, through LIST selections for the number one 1775-S4A scanner, you can configure channel 0 on the PLC-3 front panel for communication with the industrial terminal or an RS-232-C compatible device.

I/O Scanning Interface

The 1775-S4A scanner provides terminals for four separate I/O communication channels. These channels can communicate with I/O adapter modules in I/O chassis. In scanning these I/O channels, the 1775-S4A scanner:

- reads the status of output image table words from the data table and transmits this data to update the status of the terminals on the corresponding output module groups
- receives the status from the terminals on the input module groups and writes this data into the corresponding input image table word in the data table

You can connect up to 16 I/O chassis on a single I/O channel. Through the PLC-3 LIST function, you can select the sequence that the 1775-S4A scanner scans the I/O chassis. If an I/O chassis requires a faster update time, you can list the chassis more than once in the sequence.

Product Data

I/O Scanner Modules

Specifications

Location Single slot in a PLC-3 processor chassis	Channels Per Scanner 4 I/O communication 1 RS-232-C communication	Nominal I/O Scan Times Per I/O Adapter 5.5 to 6.5ms for 1 channel 6ms for 2 channels 6ms for 3 channels 6.0 to 6.5ms for 4 channels
Functions - I/O interface - RS-232-C interface for ladder diagram programming - RS-232-C interface for report generation	Communication Rate 57.6 or 115.2 kbaud (I/O channel) 110 baud to 19.2 kbaud (RS-232-C channel)	Environmental Conditions - Operational Temperature: 0 to 60° C (32 to 140° F) - Storage Temperature: -40 to 85°C (-40 to 185° F) - Relative Humidity: 5 to 95% (without condensation)
I/O Capacity 2,048 inputs and 2,048 outputs	I/O Channel Cable Length 10,000 cable feet (max)	



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