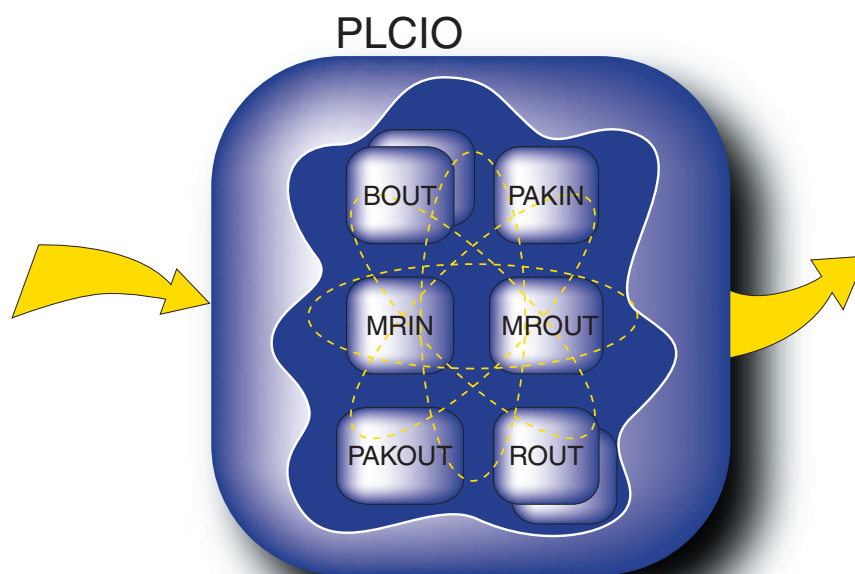


Programmable Logic Controller Input/Output (PLCIO) Block



The Programmable Logic Controller Input/Output (PLCIO) Block integrates the functionality of multiple PLC interface blocks communicating with a single Allen-Bradley™ Programmable Logic Controller (PLC™).

OVERVIEW

The Programmable Logic Controller Input/Output Block (PLCIO) operates as a functional composite of multiple PLC interface blocks communicating with a single PLC. It is useful primarily when a large number of points in the PLC, with a variety of data types, are connected to the I/A Series station. This allows you to define a block structure within I/A Series which matches the PLC database, such as a motor, pump, PID module, valve, burner, and so forth.

The component sub-block types within a PLCIO block are:

- ▶ BOUT (two components)
- ▶ ROUT (two components)
- ▶ PAKIN
- ▶ PAKOUT
- ▶ MRIN
- ▶ MROUT

You specify the component sub-blocks you wish to use (the “active” components) during configuration of this block. In general, each component sub-block has its own independent parameters, with only a few exceptions.

Each time the PLCIO block is executed, each active component sub-block is executed independently of the others.

PLCIO does not provide any alarm detection or reporting capability.

Features

- ▶ Manual/Auto control of the block output signal of all blocks in PLCIO; can be initiated by a host process or another block
- ▶ Functionality of up to 8 independent PLC blocks in a single block
- ▶ All component sub-blocks interface to the same PLC
- ▶ Configurable choice of active components
- ▶ A number of parameters, such as the Auto/Manual switch, shared by all components.

Principal Parameters

See the following Product Specification Sheets for the principal parameters:

- ▶ *Binary Output (BOUT) Block* (PSS 31S-3BOUT)
- ▶ *Real Output (ROUT) Block* (PSS 31S-3ROUT)
- ▶ *Packed Input (PAKIN) Block* (PSS 31S-3PAKIN)

- ▶ *Packed Output (PAKOUT) Block* (PSS 31S-3PAKOUT)
- ▶ *Multiple Real Input (MRIN) Block* (PSS 31S-3MRIN)
- ▶ *Multiple Real Output (MROUT) Block* (PSS 31S-3MROUT).

SUPPORT

PLCIO is a PLC block which allows the following I/A Series equipment to interface Allen-Bradley PLCs:

- ▶ AW70 processors with control software (see 70 Series Application Workstation Model AW70 [PSS 21H-4U1 B3])
- ▶ AW51 Integrators (see 50 Series Application Workstation Model AW51 [PSS 21H-4R1 B3])
- ▶ Micro-I/A Station (see Field Automation Subsystem Micro-I/A™ Allen-Bradley PLC5/E Remote I/O Interface [PSS 21H-6C6 B4])
- ▶ Allen-Bradley Station (see Allen-Bradley Station [PSS 21H-1F1 B3]).

PLC blocks are supported on I/A Series software.