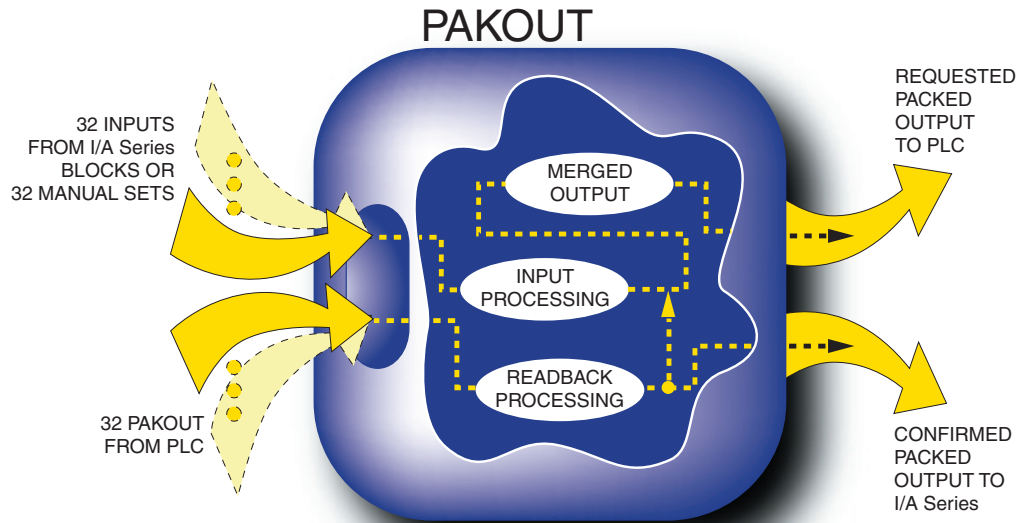


I/A Series® Software

PSS 21S-3Q8 B4

Packed Output (PAKOUT) Block



The Packed Output (PAKOUT) block provides the control strategy with the capability to pass from 1 to 32 binary values to a group of 32 contiguous addresses in an Allen-Bradley™ Programmable Logic Controller (PLC™). Each bit represents a binary value having opposing states, such as ON/OFF, or START/STOP. The data is then available for distribution to other I/A Series blocks.

OVERVIEW

The Packed Output Block (PAKOUT) sends 1 to 32 binary values to a group of 32 contiguous addresses in a Programmable Logic Controller (PLC). Manual mode inputs to the PAKOUT block are obtained from operator sets, generally from an I/A Series Display Manager or FoxView™ display, at the request component of the output. Auto mode inputs are obtained from a set of binary inputs. Output from the block is change driven; the block only writes to the device when a change occurs in at least one of the bits.

The I/A Series station continuously reads back this value. If the readback value differs from the value which had been sent by PAKOUT, the PAKOUT inputs are changed to copy the readback. This updates the baseline values of the inputs for future change detection. Also the request component is changed; no writing to the PLC occurs at this time.

To aid diagnostic testing, the structure of the block output causes the value read back from the PLC to be reflected in the block output. The value which was sent to the PLC as the request component is provided by another parameter.

PAKOUT does not provide any alarm detection or reporting capability.

FEATURES

- ▶ Manual/Auto control of the block output signal; can be initiated by a host process or another block
- ▶ Specification of PLC group address as device-specific string
- ▶ Packed long output written to device only when at least one bit changes
- ▶ Displayed output value always the readback value
- ▶ A change timer (checks that the PLC has received the most recent I/A Series change) is used to synchronize values at both I/A Series and PLC ends.

CP270 (WITH I/A SERIES V8.4 OR LATER) ADDITIONAL FEATURES

- ▶ Simulation option allows PAKOUT to run without actual DCI connections to field devices.
- ▶ Workstation lock. Set requests to any of PAKOUT's parameters (subject to the usual access rules) may be restricted to a specific workstation which locks the block.

PRINCIPAL PARAMETERS

Input

- ▶ 32 binary input points from PLC

Output

- ▶ 1 packed long output value.

SUPPORT

PAKOUT 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 version 6.2 or later. Value points for PLC blocks are listed in Micro-I/A FoxBlock™ Integrated Control Software (PSS 21H-6C1 B4).



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