EcoStruxure™

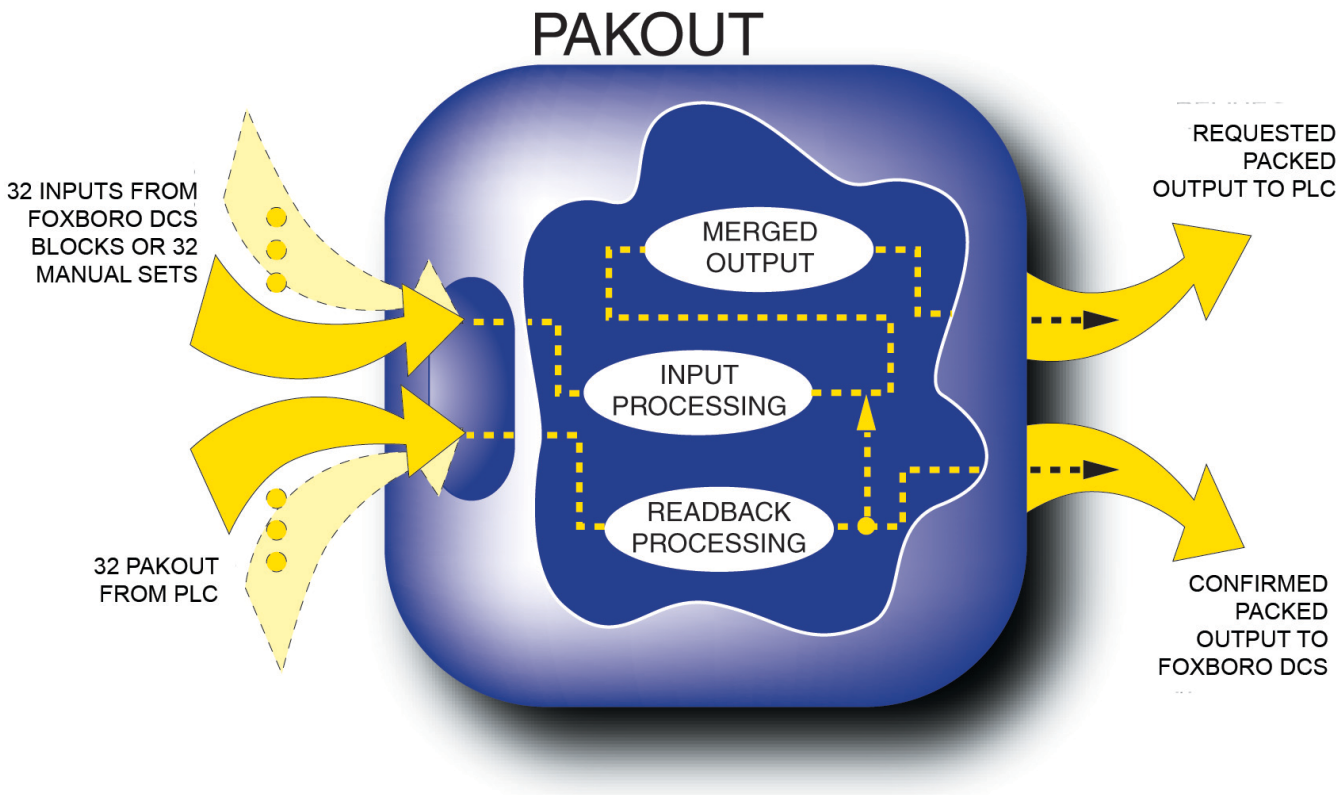
Foxboro™ DCS

Packed Output (PAKOUT) Block

PSS 41S-3PAKOUT

Product Specification

May 2019



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Legal Information

Overview

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 a 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 Foxboro™ DCS blocks.

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 a user interface, 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 Foxboro DCS 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 Foxboro DCS change) is used to synchronize values at both Foxboro DCS and PLC ends

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

- From 1 to 32 boolean inputs from the control strategy
- A packed long (32 bit) value from the PLC (output read-back)

Output

- A packed long (32 bit) value (output request) sent to the PLC
- A packed long (32 bit) value from the PLC (output read-back) for display or use in the control strategy

Support

PAKOUT is a DCI block that allows the Foxboro DCS to interface to PLCs. For the FCP280 this is accomplished through FDSIs. The FDC280 does not require FDSI modules.

WARNING: This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.p65warnings.ca.gov/.

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As standards, specifications, and design change from time to time, please ask for confirmation of the information given in this publication.

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