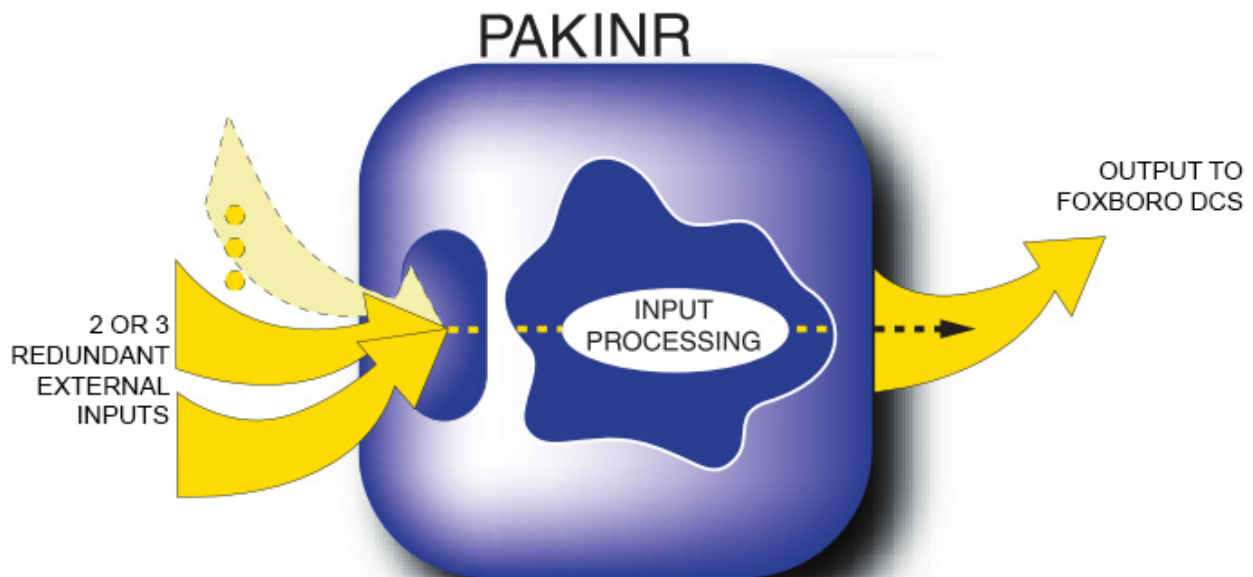# Foxboro™ DCS

Redundant Packed Input (PAKINR) Block

PSS 41S-3PAKINR

Product Specification

May 2019

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Overview

The Packed Input (PAKIN) block reads up to 32 bits of discrete data from a group address selected from multiple points in the same or different field devices.

Redundant Packed Input (PAKINR) is a Distributed Control Interface (DCI) block that runs on a EcoStruxure™ Foxboro™ DCS Field Control Processor 280 (FCP280) and Field Device Controller 280 (FDC280). The PAKINR block is primarily used to support point redundancy with Foxboro DCS Field Device System Integrator (FDSI) and FDC280 devices. The block also supports connectivity to various other bus-resident devices via its general purpose interface.

PAKINR reads up to 32 contiguous bits from an external device. 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 source of the value may be specified as either two or three redundant points in the same device or different devices.

The block's selection algorithm is invoked to determine which one of the two or three inputs is to be assigned to the block's output parameter.

The block includes a simulation option for testing of the control strategy without acquisition of the value from the field.

Features

- Reads input value from two or three redundant inputs
- Makes the selected input available in the PAKCIN parameter
- Provides the option of selecting two or three redundant sources
- Time stamps the selected output
- Makes individual bits of packed long input connectable to blocks and displays
- Provides the option to simulate input from the field
- Performs all necessary bit and/or byte reversals between the device and Foxboro DCS representations

Principal Parameters

Input

- The source address in the PLC memory from which the inputs are obtained (up to 3 different addresses may be specified)

Output

Output
- A packed long output of the selected point

Support

The PAKINR block can be used by DIN rail mounted FBMs that support the DCI blocks. The PAKINR is supported on the FCP280 and FDC280.

Refer to following product specification sheets for details:

- *FBM230 Field Device System Integrator Module, Four Serial Ports, Single* (PSS 41H-2S230)

- *FBM231 Field Device System Integrator Module, Four Serial Ports, Redundant* (PSS 41H-2S231)

- *FBM232 Field Device System Integrator Module, 10/100 Mbps Ethernet, Single* (PSS 41H-2S232)

- *FBM233 Field Device System Integrator Module, 10/100 Mbps Ethernet, Redundant* (PSS 41H-2S233)

- *Field Device Controller 280 (FDC280)* (PSS 41H-2FDC280)

⚠ **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/.

PSS 41S-3PAKINR, Rev A