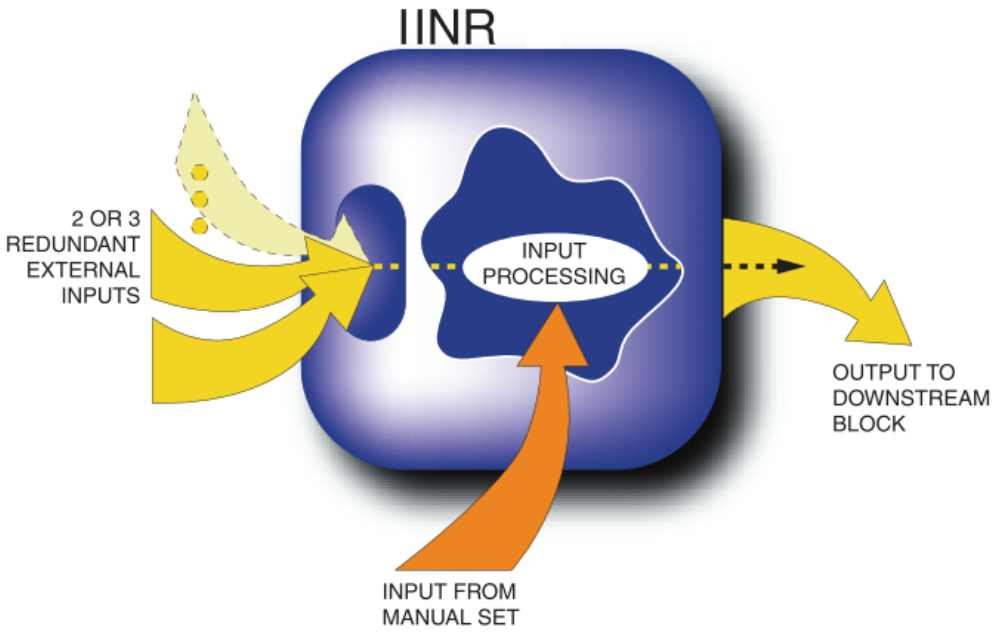
I/A Series® Software

PSS 21S-3Q14 B4

Redundant Integer Input (IINR) Block



The Redundant Integer Input (IINR) block enables the control strategy to read a single integer value selected from multiple points in the same or different field devices.

OVERVIEW

The Redundant Integer Input (IINR) block is a Distributed Control Interface (DCI) block that runs on the Field Control Processor 270 (FCP270) and the Z-module Control Processor 270 (ZCP270). The IINR block is primarily used to support point redundancy with Field Device System Integrator (FDSI) devices; however, the block supports connectivity of the FCP270 and ZCP270 to various other bus-resident devices via its general purpose interface.

The sources of the value can be specified as either two or three redundant inputs in the same device or in different devices. The status of each of the redundant inputs is evaluated before the block's selection algorithm is invoked to determine which of the two or three inputs is set into the block's output parameter.

The actual receipt and processing of this value is subject to the conditions established by the Simulation Option and the Auto/Manual mode of the block.

In addition, the IINR block supports BAD alarming, including the alarm reprioritization feature and the alarm message regeneration feature via the AMRTIN parameter. BAD alarming can be enabled when the block is in the Auto and manual mode of operation,

or just when the block is in Auto.

FEATURES

The IINR block provides the following features:

- Reads one integer input value from redundant inputs in the same or different field devices
- Option to select two or three redundant sources
- In Auto mode, copies its output to the LIN parameter
- In Manual mode, enables manual setting of the LIN parameter
- Time stamps the selected value
- Provides alarm detection and reporting for BAD alarms
- Enables simulation of block input without acquiring value from the field

PRINCIPAL PARAMETERS

Input

- One integer input selected from two or three redundant sources
- Switches for Auto and Manual control modes

Output

- 1 real output, derived from the field in Auto mode, or set by operator in Manual mode

SUPPORT

The IINR block is supported on the FCP270 and ZCP270 running I/A Series system software V8.4 or later, and hosting FDSI FBMs and/or other DIN rail mounted FBMs.

The block can be used by other DIN rail mounted FBMs that support the DCI blocks.

Refer to following product specification sheets for details:

- *Field Control Processor 270 (FCP270)* (PSS 21H-1B9 B3)
- *Z-Module Control Processor 270 (ZCP270)* (PSS 21H-1B10 B3)
- *FBM230 Field Device System Integrator Module, Four Serial Ports, Single* (PSS 21H-2Z30 B4)
- *FBM231 Field Device System Integrator Module, Four Serial Ports, Redundant* (PSS 21H-2Z31 B4)
- *FBM232 Field Device System Integrator Module, 10/100 Mbps Ethernet, Single* (PSS 21H-2Z32 B4)
- *FBM233 Field Device System Integrator Module, 10/100 Mbps Ethernet, Redundant* (PSS 21H-2Z33 B4)

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