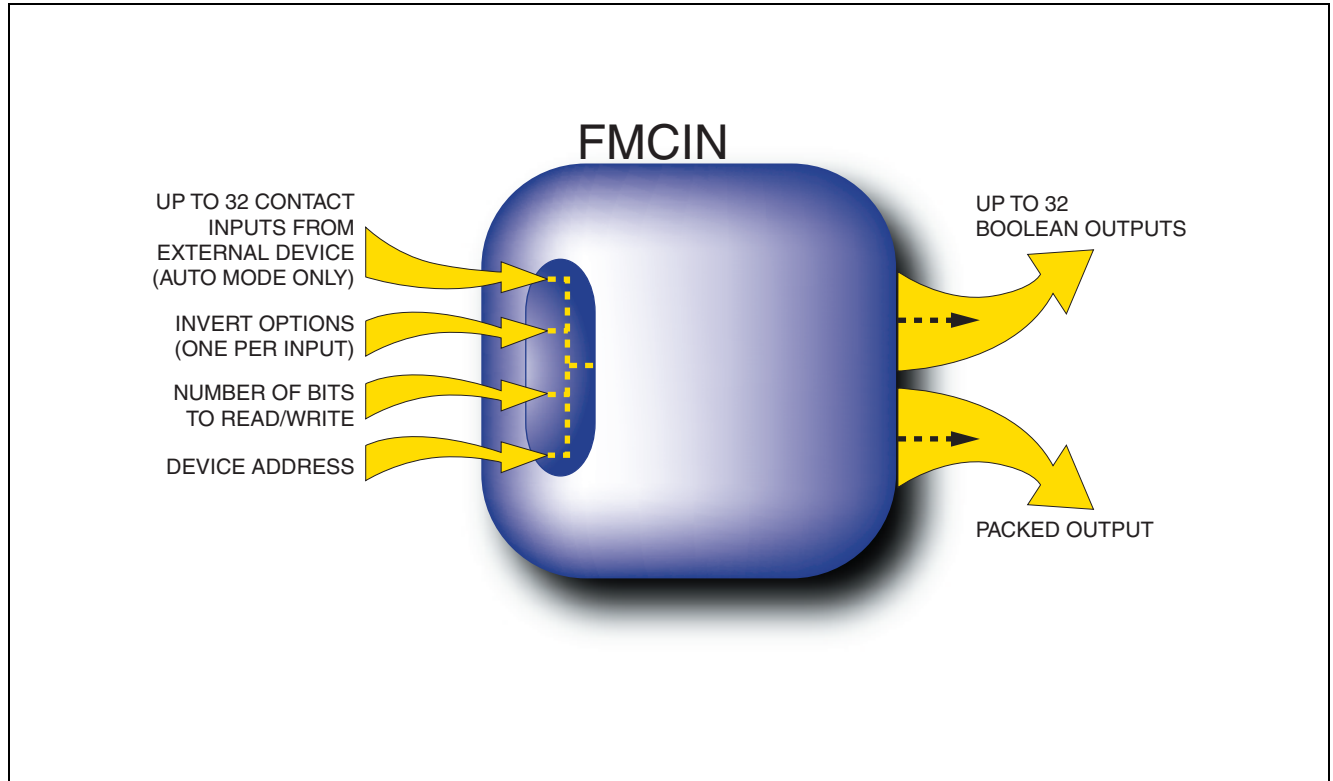


I/A Series® Software

Foreign Device Multi-Contact Input (FMCIN) Block



The Foreign Device Multi-Contact Input (FMCIN) block provides the control strategy or operator interface with multiple Boolean or contact values received real-time from a PROFIBUS™-DP or Modbus™ remote I/O device via a Micro-I/A™ Station, or from a foreign device via an I/O gate. The block supports Auto/Manual control.

OVERVIEW

The Foreign Device Multi-Contact Input (FMCIN) block writes the contact value received from its applicable field device to its output.

The values can be referenced individually or as a single 32-bit integer value. In the latter value, the block supports an invert option for each bit position.

FMCIN can accept values from:

- PROFIBUS-DP or Modbus remote I/O devices via a Micro-I/A Station
- foreign (third-party) devices⁽¹⁾ via an I/O gate.

(1) Refer to *DDE I/O Gate* (PSS 21S-3A4 B3) for an explanation on how an I/O gate interfaces foreign devices.

As long as the block is in Auto and no error conditions exist, the values are moved from the block's raw value storage to the connectable outputs. Only the number of bits you specify by are moved.

When the block is in Manual, processing of field device data is suspended and the input is not retrieved by the block.

Features

- Reads up to 32 Boolean or contact values from the applicable field device
- Optional inversion of Boolean or contact inputs
- Manual/Auto control of the block output signal; can be initiated by a host process or another block
- Supports a series of validation checks to ensure process is on-line before block initialization
- Specification of source point for a PROFIBUS-DP or Modbus remote I/O device, or for a foreign device.

Principal Parameters**Input**

- Up to 32 Boolean or contact inputs derived from applicable field device(s), in Auto mode
- Invert option for each input point
- Manual/Auto control mode switching

Output

- 32 Boolean outputs to I/A Series control strategy
- 1 packed output to I/A Series control strategy.

SUPPORT

FMCIN allows the following equipment to interface the applicable field devices:

- AW70 processors with control software (see *70 Series Application Workstation Model AW70* [PSS 21H-4U1 B3])
- AW51 processors (see *50 Series Application Workstation Model AW51* [PSS 21H-4R1 B3])
- Micro-I/A Station (see *Field Automation Subsystem Micro-I/A PROFIBUS-DP Remote I/O Interface* [PSS 21H-6C4 B4] or *Field Automation Subsystem Micro-I/A Modbus Remote I/O Interface* [PSS 21H-6C5 B4])
- I/O gate (see *DDE I/O Gate* [PSS 21S-3A4 B3]).

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