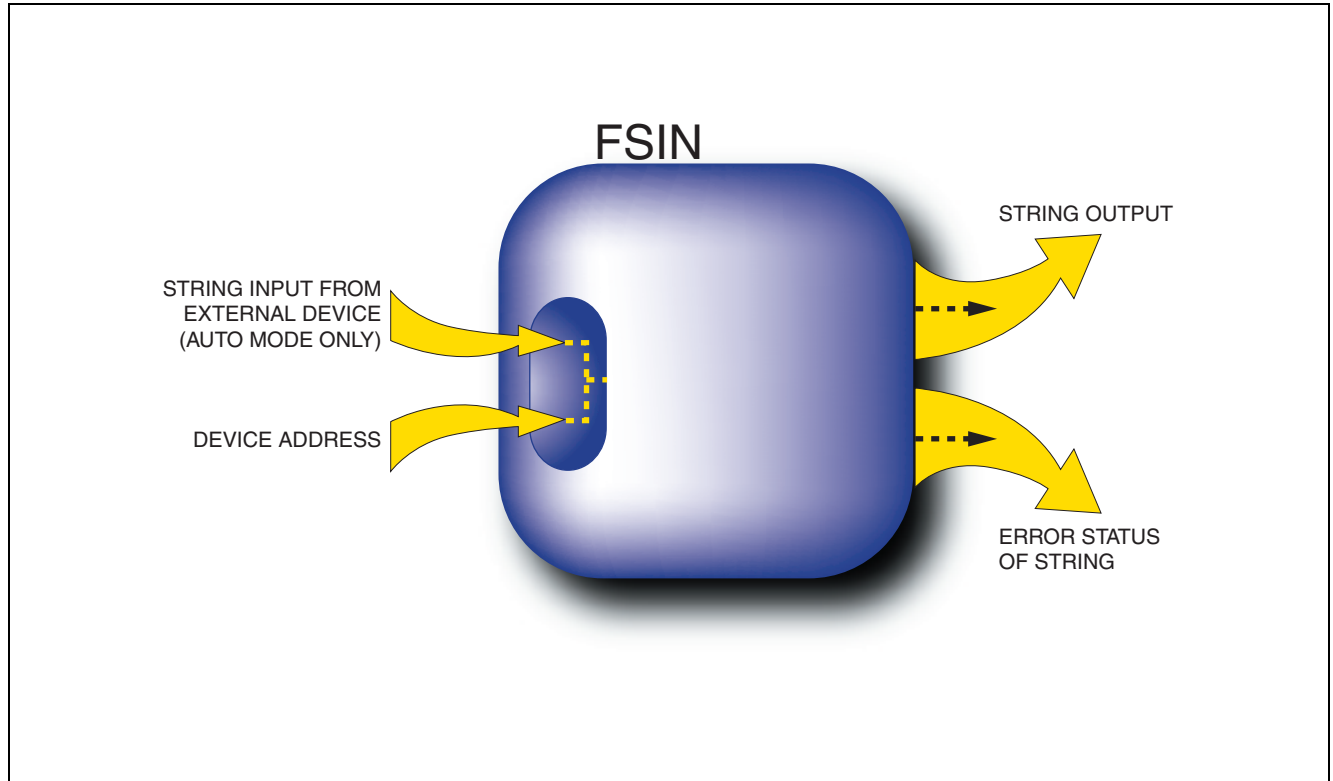


I/A Series® Software

Foreign Device String Input (FSIN) Block



The Foreign Device String Input (FSIN) block provides the control strategy or operator interface with a single string value 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 String Input (FSIN) block writes the string value received from the applicable field device to its output and increments the alternate change parameter when it receives a changed value.

String length is limited to 79 characters.

FSIN can accept strings 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.

As long as the block is in Auto and no error conditions exist, the value is moved from the block's raw value storage to the connectable output.

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

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

Features

- Reads a single string from applicable field device
- 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

- 1 string input derived from applicable field device, in Auto mode
- Manual/Auto control mode switching

Output

- 1 string output to I/A Series control strategy.

SUPPORT

FSIN 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]).

The Foxboro Company

33 Commercial Street
Foxboro, Massachusetts 02035-2099
United States of America
<http://www.foxboro.com>

Inside U.S.: 1-508-543-8750 or 1-888-FOXBORO (1-888-369-2676)
Outside U.S.: Contact your local Foxboro representative.

Foxboro, I/A Series, and Micro-I/A are trademarks of The Foxboro Company.
Invensys is a trademark of Invensys plc.
Modbus is a trademark of AEG Schneider Automation.
PROFIBUS is a trademark of the Profibus Users Organization (PNO).
All other brand names may be trademarks of their respective companies.

Copyright 2000 The Foxboro Company
All rights reserved