

Sending data

GP.SOCSND



FX5S

FX5UJ

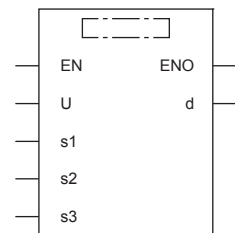
FX5U

FX5UC

This instruction sends data.

Ladder diagram	Structured text
	<pre>ENO:=GP_SOCSND(EN,U,s1,s2,s3,d);</pre>

FBD/LD



("GP_SOCSND" enters □.)

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Setting data

■Descriptions, ranges, and data types

Operand	Description	Range	Data type	Data type (label)
(U)	Position number of the module connected	■FX5UJ CPU module 1H to 8H ■FX5U/FX5UC CPU module 1H to 10H	16-bit unsigned binary	ANY16
(s1)	Connection number	1 to 32	16-bit unsigned binary	ANY16
(s2)	Head device number for specifying the control data	Refer to Control data (Page 1072)	Word	ANY16_ARRAY (Number of elements: 2)
(s3)	Head device number for storing the send data	—	Word	ANY16 ^{*1}
(d)	Head device number which turns ON when the execution of the instruction is completed and remains on for 1 scan. If the instruction is completed with an error, (d)+1 is also turned on.	—	Bit	ANYBIT_ARRAY (Number of elements: 2)
EN	Execution condition	—	Bit	BOOL
ENO	Execution result	—	Bit	BOOL



*1 When specifying setting data by using a label, define an array to secure enough operation area and specify an element of the array label.

■Applicable devices

Operand	Bit	Word			Double word		Indirect specification	Constant			Others (U)
	X, Y, M, L, SM, F, B, SB, S	T, ST, C, D, W, SD, SW, R	U□\G□	Z	LC	LZ		K, H	E	\$	
(U)	—	○	—	—	—	—	○	○	—	—	○
(s1)	○	○	—	—	—	—	○	○	—	—	—
(s2)	—	○	—	—	—	—	○	—	—	—	—
(s3)	—	○	—	—	—	—	○	—	—	—	—
(d)	○	○ ^{*1}	—	—	—	—	—	—	—	—	—

*1 T, ST, and C cannot be used.

■Control data

Device	Item	Description	Setting range	Set by ^{*1}
(s2)+0	System area	—	—	—
(s2)+1	Completion status	The status at the completion of the instruction is stored. 0000H: Completed successfully Other than 0000H: Completed with an error (error code) For error codes, refer to the manual below.  MELSEC iQ-F FX5 Ethernet Module User's Manual  MELSEC iQ-F FX5 EtherNet/IP Module User's Manual	—	System
(s3)+0	Send data length	Specifies the send data length. (Number of bytes)	1 to 2046	User
(s3)+1 to (s3)+n	Send data	Specifies the send data.	—	User

*1 User: Data to be set before the execution of the instruction. System: The Ethernet module stores the execution result of the instruction.

Point

When TCP is used, specify send data length that is smaller than the maximum window size of the target device (Receive data buffer of TCP). Data whose size exceeds the maximum window size of the target device cannot be sent.

Processing details



This instruction send the data set by (s3) to the target device of the connection specified by (s1).

The completion of the GP.SOCSND instruction can be checked using the completion devices (d)+0 and (d)+1.

- Completion device (d)+0: Turns ON during the END processing for the scan in which the GP.SOCSND instruction is completed, and turns OFF during the next END processing.
- Completion device (d)+1: Turns ON or OFF depending on the status when the GP.SOCSND instruction is completed.

Status	Description
When completed normally	The device does not change (remains OFF).
When completed with an error	The device turns ON during the END processing for the scan in which the GP.SOCSND instruction is completed, and turns OFF during the next END processing.

Operation error

Error code ((s2)+1)	Description
C000H to CFFFH	Refer to  MELSEC iQ-F FX5 Ethernet Module User's Manual. Refer to  MELSEC iQ-F FX5 EtherNet/IP Module User's Manual.