

Reading socket communications receive data

S(P).SOCRDATA

FX5S

FX5UJ

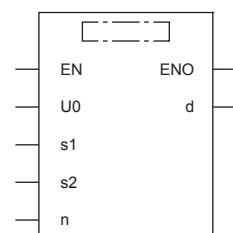
FX5U

FX5UC

This instruction reads the data in the socket communication receive data area.

Ladder diagram	Structured text
	<pre>ENO:=S_SOCRDATA(EN,U0,s1,s2,n,d); ENO:=SP_SOCRDATA(EN,U0,s1,s2,n,d);</pre>

FBD/LD



("S_SOCRDATA", "SP_SOCRDATA" enters □.)

13

Setting data

■Descriptions, ranges, and data types

Operand	Description	Range	Data type	Data type (label)
(U)*1	Dummy (Input the character string ['U0'].)	—	Character string	—*2 (ANYSTRING_SINGLE)
(s1)	Connection number	1 to 8	16-bit unsigned binary	ANY16
(s2)	Head device number for storing the control data	Refer to Control data (Page 1044)	Word	ANY16_ARRAY (Number of elements: 2)
(d)	Head device number for storing the read data	—	Word	ANY16
(n)	Number of the read data (1 to 1024 words)	1 to 1024	16-bit signed binary	ANY16
EN	Execution condition	—	Bit	BOOL
ENO	Execution result	—	Bit	BOOL

*1 In the case of the ST language and the FBD/LD language, U displays as U0.

*2 Regardless of the program language to be used, the data type is specified by a device. Do not specify a label.

■Applicable devices

Operand	Bit	Word			Double word		Indirect specification	Constant			Others
	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)	—	○	—	—	—	—	○	—	—	—	—
(d)	—	○	—	—	—	—	○	—	—	—	—
(n)	—	○	—	—	—	—	○	○	—	—	—

■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 MELSEC iQ-F FX5 User's Manual (Communication).	—	System

*1 System: The CPU module stores the execution result of the instruction.

Processing details

These instructions read the data for the number of words specified by (n) from the socket communication receive data area of the connection specified by (s1) to the devices from the device specified by (d) onwards. No processing is performed when (n) is 0.

Point

- When (n) is 1, the receive data length can be read. By doing this, the device for storing the receive data can be changed when the SP.SOCRCV instruction is executed.

For details, refer to MELSEC iQ-F FX5 User's Manual (Communication).

Precautions

- Even when the S(P).SOCRDATA instructions are executed, the socket communication receive data area is not cleared and the receiving status signal does not change. Therefore, the next receive data is not stored in the socket communication receive data area.
- To update receive data, use the SP.SOCRCV instruction to read the receive data.

Operation error

Error code (SD0/SD8067)	Description
3405H	The connection number specified by (s1) is other than 1 to 8.
2820H	The device number specified by (s2), (d), or (n) is outside the range of the number of device points.
2822H	Device that cannot be specified is specified.