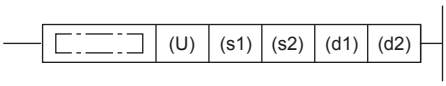
Reading receive data

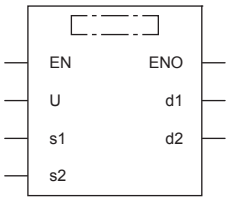
GP.SOCRCV

FX5S FX5UJ FX5U FX5UC

This instruction reads the receive data.

Ladder diagram	Structured text
	ENO:=GP_SOCRCV(EN,U,s1,s2,d1,d2);

FBD/LD



("GP_SOCRCV" enters □.)

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 1070)	Word	ANY16_ARRAY (Number of elements: 2)
(d1)	Head device number for storing the receive data	—	Word	ANY16*1
(d2)	Head device number which turns ON when the execution of the instruction is completed and remains on for 1 scan. When the instruction completes with an error, (d2)+1 also turns 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)	—	○	—	—	—	—	○	—	—	—	—
(d1)	—	○	—	—	—	—	○	—	—	—	—
(d2)	○	○*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
(d1)+0	Receive data length	The data length of the data read from the socket communication receive data area is stored. (Number of bytes)	0 to 2046	System
(d1)+1 to (d1)+n	Receive data	The data read from the socket communication receive data area is sequentially stored.	—	System

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

Point

- When the GP.SOCRCV instruction is executed, reading data from the socket communication receive data area is executed with the END processing. Thus, executing the GP.SOCRCV instruction extends the scan time.
- When the data of odd-number of bytes is received, invalid data is stored in the higher byte of the device where the last receive data is stored.

Processing details

In the END processing after the execution of the GP.SOCRCV instruction, the receive data of the connection specified by (s1) is read from the socket communication receive data area.

The completion of the GP.SOCRCV instruction can be checked using the completion devices (d2)+0 and (d2)+1.

- Completion device (d2)+0: Turns ON during the END processing for the scan in which the GP.SOCRCV instruction is completed, and turns OFF during the next END processing.
- Completion device (d2)+1: Turns ON or OFF depending on the status when the GP.SOCRCV 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.SOCRCV 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.