

12 NETWORK COMMON INSTRUCTION

Target networks and target station types

Each link dedicated instruction allows access to a station on a network other than the own station network.

The following table lists the target stations of each instruction.

Instruction symbol	Target station (another station)	
	Target network	Target station type
GP.READ GP.SREAD	<ul style="list-style-type: none">• Ethernet• CC-Link IE TSN• CC-Link IE Controller Network• CC-Link IE Field Network• MELSECNET/H• MELSECNET/10	<ul style="list-style-type: none">• RCPU• QCPU• LCPU• QSCPU• QnACPU• FX5CPU• Intelligent device station
GP.WRITE GP.SWRITE	<ul style="list-style-type: none">• Ethernet• CC-Link IE TSN• CC-Link IE Controller Network• CC-Link IE Field Network• MELSECNET/H• MELSECNET/10	<ul style="list-style-type: none">• RCPU• QCPU• LCPU• QnACPU• FX5CPU• Intelligent device station
GP.SEND GP.RECV	<ul style="list-style-type: none">• Ethernet• CC-Link IE TSN• CC-Link IE Controller Network• CC-Link IE Field Network• MELSECNET/H• MELSECNET/10	<ul style="list-style-type: none">• RCPU• QCPU• LCPU• QnACPU• FX5CPU• Interface board for personal computer^{*1}

*1 These instructions can access the following personal computer interface boards having the SEND/RECV functions.
CC-Link IE Field Network interface board, CC-Link IE Controller Network interface board, MELSECNET/H interface board, and MELSECNET/10 interface board

Specifications of character string data specified by link dedicated instructions

Some operands specified in link dedicated instructions are specified in character strings. The following table summarizes the specifications of character string data specified.

Instruction symbol	Applicable operand	Specifications of character string data
GP.READ	(s2)	<ul style="list-style-type: none"> ■ Specification method Specify a character string by enclosing it in single quotes (').
GP.SREAD	(s2)	<ul style="list-style-type: none"> ■ Specifiable device types <ul style="list-style-type: none"> • Word device: D, W, SW, SD, T, C, ST, ZR, R
GP.WRITE	(d1)	<ul style="list-style-type: none"> ■ Specifiable device types <ul style="list-style-type: none"> • Word device: D, W, SW, SD, T, C, ST, ZR, R • Digit-specified bit device: X, Y, M, L, B, F, SB, SM
GP.SWRITE	(d1)	<ul style="list-style-type: none"> ■ ASCII string specifications <ul style="list-style-type: none"> • An ASCII string can consist of a maximum of 32 characters. (Specify NULL as the termination character.) • ASCII strings are zero-suppressed. (Example: D1 and D001 are handled the same.) • ASCII strings are case-sensitive. ■ Precautions <p>Digit-specified bit devices can be specified only when the following conditions are all satisfied.</p> <ul style="list-style-type: none"> • The device number is a multiple of 16 (10H). • The number of specified nibbles is 4 (K4). <p>An instruction specifying bit devices by nibble can be executed only when the target station is FX5CPU, RCPU, basic model QCPU, universal model QCPU, or LCPU. If an instruction uses digit specification for other types of CPU modules, an abnormal response is returned from the target station and the instruction is completed with an error. (The network module does not detect an error during execution of the instruction.)</p> <p>The target device of an instruction executed in index modification mode is determined by the value of the index register of the own station.</p> <p>When specifying X and Y devices, specify the device number in hexadecimal.</p>
GP.SREAD	(d3)	<ul style="list-style-type: none"> ■ Specification method Specify a character string by enclosing it in single quotes (').
GP.SWRITE	(d3)	<ul style="list-style-type: none"> ■ Specifiable device types <ul style="list-style-type: none"> • Bit specification of word device: D, W, SW, SD, ZR, R • Bit device: X, Y, M, L, B, F, SB, SM • Bit device index modification: Z ■ ASCII string specifications <ul style="list-style-type: none"> • An ASCII string can consist of a maximum of 32 characters. (Specify NULL as the termination character.) • ASCII strings are zero-suppressed. (Example: D1 and D001 are handled the same.) • ASCII strings are case-sensitive. ■ Precautions <p>The target device of an instruction executed in index modification mode is determined by the value of the index register of the own station.</p> <p>When specifying X and Y devices, specify the device number in hexadecimal.</p>