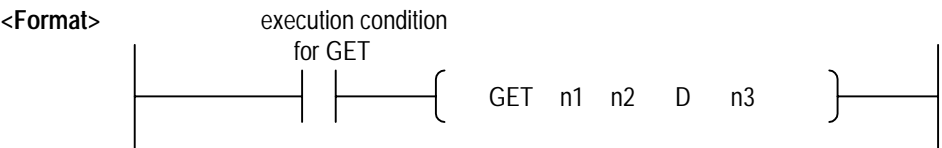


Chapter 4. DEDICATED INSTRUCTIONS FOR SPECIAL MODULES (Read from /Write to Buffer Memory)

The thermocouple input module occupies 16 I/O points.

4.1 Local

4.1.1 Read from Buffer Memory . . . GET, GETP



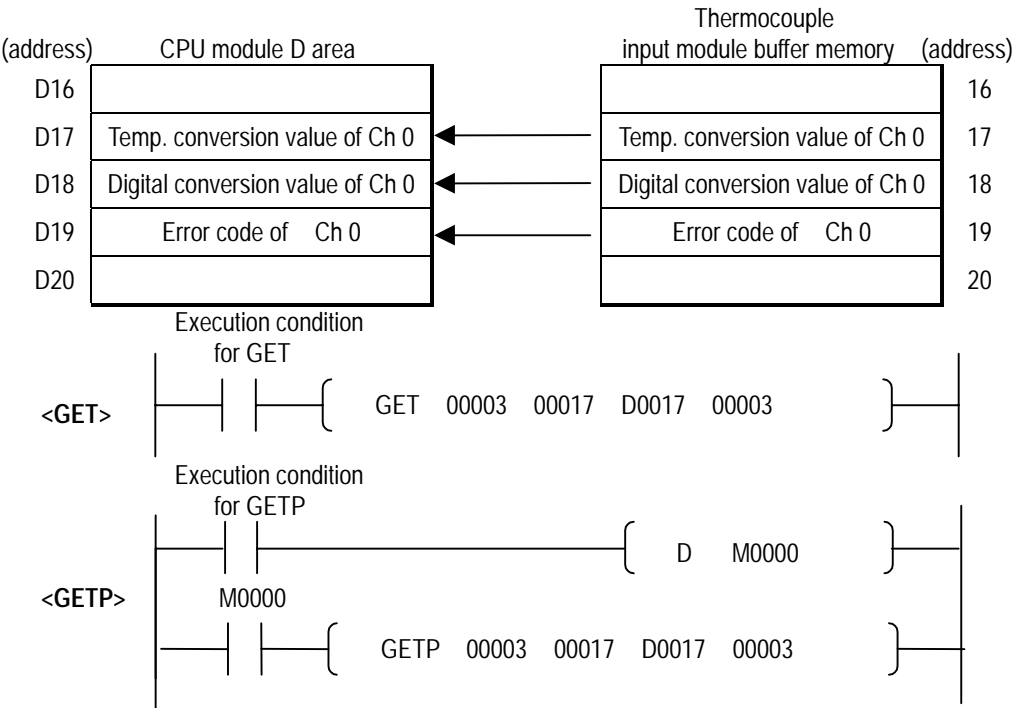
Format	Description	Available Data Type
n1	The slot No. where the specific modules mounted	Integer
n2	Head address of the specific module buffer memory from which the data will be read.	Integer
D	Head address of the device to store the data read.	M,P,K,J,T,C,D,#D
n3	Word number of data to be read.	Integer

<The difference between GET and GETP>

GET: always executed if the execution condition turns On. ()

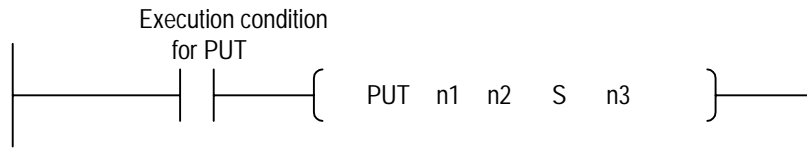
GETP: executed if the execution condition is triggered. ()

Example 1). In this example, the thermocouple input module is mounted on the slot 3 in the unit and the data of buffer memory addresses 17, 18 and 19 will be read to the CPU module addresses D17, D18 and D19.



4.1.2 Write to Buffer Memory . . . PUT, PUTP

<Format>



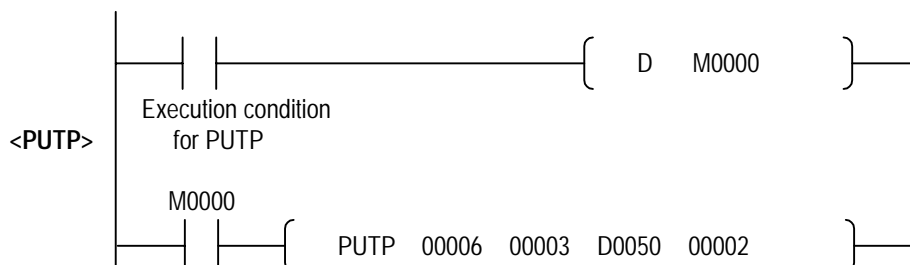
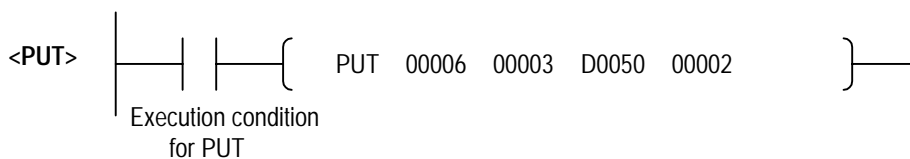
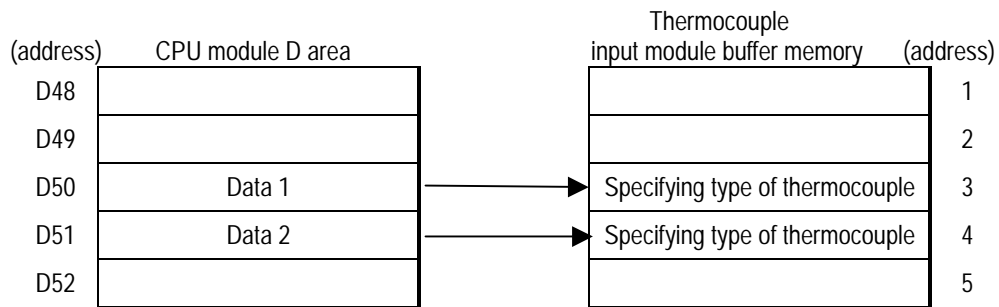
Format	Description	Available Data Type
n1	The slot No. where the specific modules mounted	Integer
n2	Head address of the specific module buffer memory to which the data will be written..	Integer
S	Head address of the device where the data to be written has been stored, or an integer	M,P,K,L,T,C,D,#D
n3	Word number of data to be written.	Integer

<The difference between PUT and PUTP>

PUT: always executed if the execution condition turns On. ()

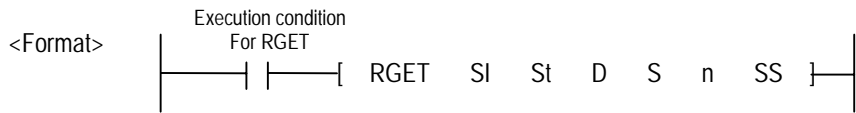
PUTP: executed if the execution condition is triggered. ()

Example 1) In this example, , the thermocouple input module is mounted on the slot 6 in the unit and the data of CPU module addresses D50 and D51 will be written to the buffer memory addresses 3 and 4.



4.2 Remote

4.2.1 Read from Buffer Memory.....RGET



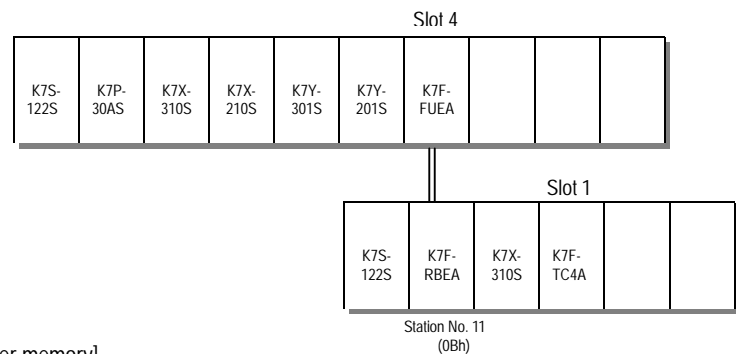
Format		Description	Available data type
SI	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">A B</div> <div style="border: 1px solid black; padding: 2px;">C D</div> </div> <div style="display: flex; justify-content: space-around; font-size: 0.8em;"> Upper (8bit) Lower (8bit) </div>	Upper(AB) : Code value for thermocouple input module K7F - TC4A : 03h K4F - TC2A : 83h Lower(CD) : Slot No. of the local communications module(FUEA) Setting range : 0 to 7	Integer
St	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">E F</div> <div style="border: 1px solid black; padding: 2px;">G H</div> </div> <div style="display: flex; justify-content: space-around; font-size: 0.8em;"> Upper (8bit) Lower (8bit) </div>	Upper(EF) : Slot No. of the thermocouple Input module mounted on the remote station Setting range : 0 to 31 Lower(GH) : Station No. of the communications module mounted on the remote station(RBEA) Setting range : 0 to 63	Integer
D		Head address of the device to store the data read.	M,P,K,L,T,C,D, #D
S		Head address of the specific module buffer memory from the data will be read	Integer
n		Word number of data to be read	Integer, D
SS		Area used for indicating the status information during link	M,P,K,L,T,C,D, #D

REMARK

If a content is read from the buffer memory of the thermocouple input module by use of RGET, be sure to make the program so that execution condition can transit from 0 to 1(Rising Edge :)
 Otherwise, the content in the buffer memory of the thermocouple input module is unreadable.

<Example>

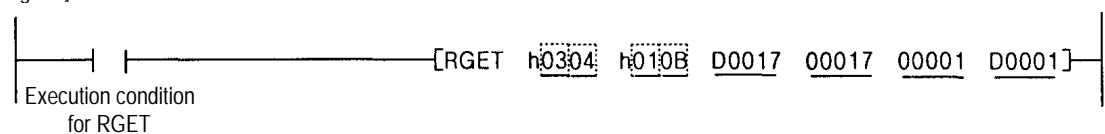
[Configuration]



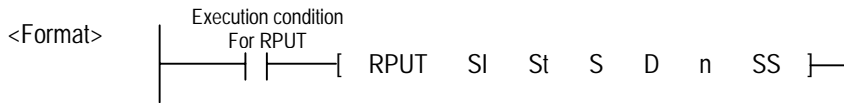
[Read from buffer memory]

- 1) The content in the buffer memory address 17(one word) is read, where the temperature conversion value of the channel 0 of the thermocouple input module had been started.
- 2) The data read is stored to D17
- 3) Information on the communications status is stored to D1

[Program]




4.2.2 Write to buffer memory RPUT



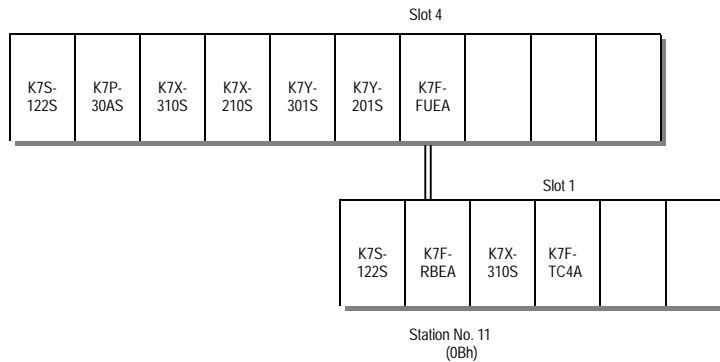
Format	Description		Available data type
SI	<div> <div>AB</div> <div>Upper (8bit)</div> </div> <div> <div>CD</div> <div>Lower (8bit)</div> </div>	Upper(AB) : Code value for thermocouple input module K7F - TC4A : 03h K4F - TC2A : 83h Lower(CD) : Slot No. of the local communications module(FUEA) Setting range : 0 to 7	Integer
St	<div> <div>EF</div> <div>Upper (8bit)</div> </div> <div> <div>GH</div> <div>Lower (8bit)</div> </div>	Upper(EF) : Slot No. of the thermocouple Input module mounted on the remote station Setting range : 0 to 31 Lower(GH) : Station No. of the communications module mounted on the remote station(RBEA) Setting range : 0 to 63	Integer
S	Head address of the device to be stored the data write.		M,P,K,L,T,C,D, #D
D	Head address of the specific module's head address to write data		Integer
n	Word number of data to be write		Integer, D
SS	Area used for indicating the status information during link		M,P,K,L,T,C,D, #D

REMARK

If the content is write to the buffer memory of the thermocouple input module by use of RPUT, be sure to make the program so that execution condition can transit from 0 to 1(Rising Edge : )
 Otherwise, the content in the buffer memory of the thermocouple input module will not be changed with a new data.

<Example>

[Configuration]



[Write to buffer memory]

- 1) The content in the D100 to D116(17 words) of the devices in the CPU module
- 2) is written to addresses 0 to 16 of the buffer memory of the thermocouple input module, and
- 3) Information on the communication status is stored to D0

[Program]

