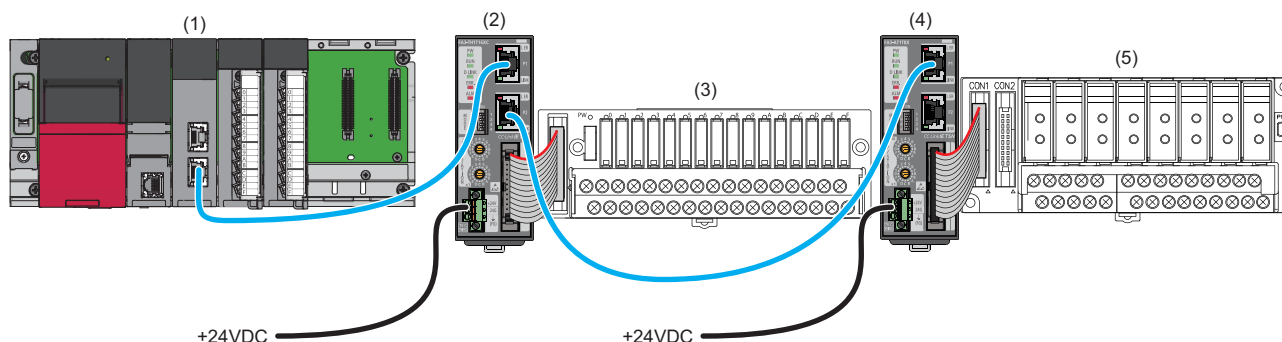


# 7 CC-LINK IE FIELD NETWORK COMMUNICATIONS

The network interface module operates as a remote device station on CC-Link IE Field Network.  
For details, refer to the user's manual for the master module used.

## 7.1 System Configuration

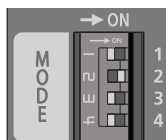


- (1) Master station (CC-Link IE Field Network-equipped master/local module)  
(2), (4) Remote device station (network interface module)  
(3), (5) Converter (☞ Page 16 Connectable Devices)

### Precautions

#### ■Network setting switches

Check that the switches are set as follows. (☞ Page 77 Network mode setting)



- Switch 1: Off
- Switch 2: On
- Switch 3: Off
- Switch 4: Off

### Supported network interface modules

The following shows the network interface module versions compatible with CC-Link IE Field Network.

Model	Software version	Hardware version
<ul style="list-style-type: none"> <li>• FA3-TH1T16XC</li> <li>• FA3-TH1T16Y</li> <li>• FA3-TH1T16YE</li> <li>• FA3-AT1T8X</li> <li>• FA3-AT1T8Y</li> </ul>	Ver. B or later	Ver. B or later
<ul style="list-style-type: none"> <li>• FA3-TH1M16XC</li> <li>• FA3-TH1M16Y</li> <li>• FA3-TH1M16YE</li> <li>• FA3-AT1M8X</li> <li>• FA3-AT1M8Y</li> </ul>	There is no restriction.	There is no restriction.

The software and hardware versions can be checked on the rating plate. (☞ Page 318 How to Check the Production Information)

## Supported master modules

The master modules in the homepage of CC-Link Partner Association can be used. Refer to the following URL.

[www.cc-link.org](http://www.cc-link.org)

Before using the module, check the specifications.

For the MELSEC-Q series, the QJ71GF11-T2, the first five digits of whose serial number are "14102" or later, can be used.

## Supported engineering tool



Always keep the engineering tool up to date.

When the latest version is necessary, please consult your local Mitsubishi Electric representative.

For the MELSEC-Q series, the GX Works2 (Version 1.90U or later) can be used.

However, the error history cannot be checked using an engineering tool (network diagnostics) when the GX Works2 is used.

Check the error history by either of the following methods.

- Checking using an engineering tool (command execution of slave station):  Page 112 Command execution of slave station
- Checking using a remote buffer memory:  Page 98 Checking using a remote buffer memory

## Supported profile

To set up the parameters of the network interface module by using the engineering tool, the profile is required.

When the latest profile of the network interface module is necessary, please consult your local Mitsubishi Electric representative.

In the CC-Link IE Field Network system, use Ver. 1.1 or later.

A network interface module is added to "Module List" in the window for setting the network configuration by profile registration to the engineering tool of the master station.

For registration of the profile, refer to the following.

 GX Works3 Operating Manual

 GX Works2 Version 1 Operating Manual (Common)

## Supported Ethernet cable

Refer to the manual for the master module used.


## Supported switching hub

Refer to the manual for the master module used.

## 7.2 Functions

This section describes the details on the functions only available in the CC-Link IE Field Network system.

For the common functions of the network interface modules available for CC-Link IE Field Network, refer to the following.

 Page 94 Function List

### Communications using dedicated instructions

Data can be read/written by using the following dedicated instructions in the master station.

When the dedicated instruction is completed with an error, and D203H is stored in the completion status of the control data (s1), check the address and number of word points.

Classification	Dedicated instruction	Description
Read	RIRD	Reads data from the remote buffer memory in units of words. (Access code: 00H, attribute code: 05H)
Write	RIWT	Writes data to the remote buffer memory in units of words. (Access code: 00H, attribute code: 05H)

#### Precautions

For a single network interface module, do not execute multiple dedicated instructions at the same time. If multiple dedicated instructions are executed at the same time, the network interface module may be unable to receive the dedicated instructions and the dedicated instructions may time out.

## 7.3 Parameter Setting

Set parameters for the network interface module using the engineering tool connected to the master station.

To set parameters for a module other than the MELSEC iQ-R series in the master station, refer to the manual for the module used.

### Slave station parameter processing

This processing writes the network interface module parameters to the network interface module directly from the engineering tool of the master station. (The parameters are saved in the non-volatile memory.)

#### Network configuration setting

##### Operating procedure

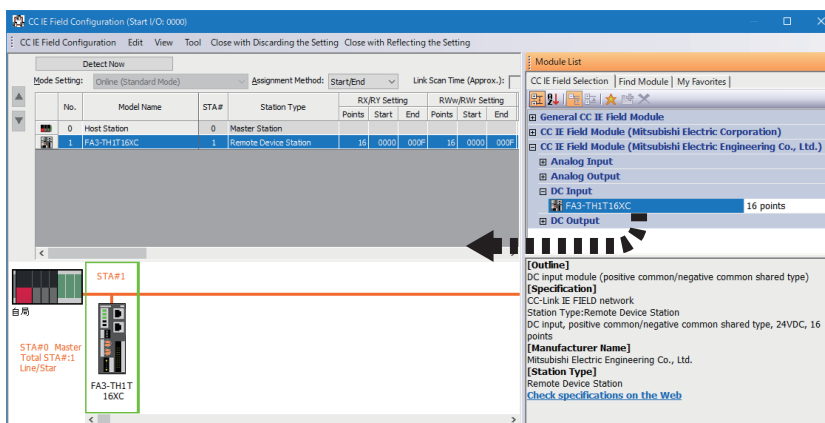
1. Open the "CC IE Field Configuration" window in the engineering tool of the master station.

[Navigation window] ⇒ [Parameter] ⇒ [Module Information] ⇒ Model ⇒ [Basic Settings] ⇒ [Network Configuration Settings]. Double-click "Detail Setting".

For details on the network configuration settings, refer to the following.

📖 MELSEC iQ-R CC-Link IE Field Network User's Manual (Application)

2. Select the network interface module in "Module List" and drag and drop it to the list of stations or the network map.



3. Set the following items for the network interface module displayed in the station list. For "RX/RX Setting" and "RWw/RWr Setting", set values within the range of link points. (📖 Page 18 Ethernet Communication Specifications)

- "STA#": Same as the value of the IP address/station number setting switches
- "RX/RX Setting": Default value for "Points" (Change is available for "Start" and "End" as long as "Points" remains the same.)
- "RWw/RWr Setting": Default value for "Points" (Change is available for "Start" and "End" as long as "Points" remains the same.)

4. Select the network interface module to set parameters for, and open the "Parameter Processing of Slave Station" window.

🖱️ Right-click the network interface module. ⇒ [Online] ⇒ [Parameter Processing of Slave Station]

- Set "Method selection" in the "Parameter Processing of Slave Station" window to "Parameter write" and input values in the "Write Value" column.

The "Parameter Processing of Slave Station" window of the FA3-TH1T16XC is shown as an example.

Parameter Processing of Slave Station

Target Module Information: FA3-TH1T16XC  
Start I/O No.:0000 - Station No.:1

Method selection: Parameter write (selected)  
The parameters are written to the target module.

Parameter Information

Select All Cancel All Selections Clear All "Read Value" Clear All "Write Value" Copy "Initial Value" to "Write Value" Copy "Read Value" to "Write Value"

Name	Initial Value	Unit	Read Value	Unit	Write Value	Unit	Setting Range	Description
<b>Module parameter</b>								
<input checked="" type="checkbox"/> Input response time setting								
Input response time setting	1ms							By setting th
<b>Module control data</b>								
<input checked="" type="checkbox"/> Relay ON count function								
X0 relay ON count threshold ...	Disable							Set valid / in
X0 relay ON count threshold ...	0	Count		Count		Count	0 to 4294967295	Set the thre
X1 relay ON count threshold ...	Disable							Set valid / in
X1 relay ON count threshold ...	0	Count		Count		Count	0 to 4294967295	Set the thre

Process Option

There is no option in the selected process.

-The refreshed device values of remote I/O or remote registers may be overwritten.  
-Accesses the PLC CPU by using the current connection destination. Please check if there is any problem with the connection destination.  
-Process is executed according to the parameters written in the PLC CPU.  
-For information on items not displayed on the screen, please refer to the Operating Manual.

☐ Enable safety module when succeed to write parameter

Execute Parameter Processing

Import... Export... OK Cancel

To save the parameter setting values in a CSV file, click the [Export] button.  
To read the parameter setting values from a CSV file, click the [Import] button.

- Click the [Execute Parameter Processing] button.
- Follow the on-screen instructions and click the [Yes] button.
- Click [OK] to close the "Parameter Processing of Slave Station" window.
- Click [Close with Reflecting the Setting] to close the "CC IE Field Configuration" window.

### Point

The parameters are enabled right after the above procedure is complete.

The data saved in the remote buffer memory is saved in the non-volatile memory either automatically or by turning on and off Initial data setting request flag (RY9). (Page 52 Saving data in the non-volatile memory)

## Precautions

Even improper parameters are saved in the non-volatile memory. If the module is powered on or reset in this state, the improper parameters are read from the non-volatile memory and an error occurs. In that case, check the error code and take the corrective actions corresponding to the error code. (Page 300 How to check an error/alarm)

## When changing the parameters

Refer to the following and replace "CC-Link IE TSN Configuration" window with "CC IE Field Configuration" window.

Page 150 When changing the parameters

# 7.4 Programming

This section describes the programming of the network interface module.

When applying the program example provided in this section to an actual system, ensure the applicability and confirm that it will not cause system control problems.

This section describes an example of program in which the GX Works3 is used. For the programs in which engineering tools other than GX Works3, refer to the user's manual for the master module to be used.


## Programming precautions

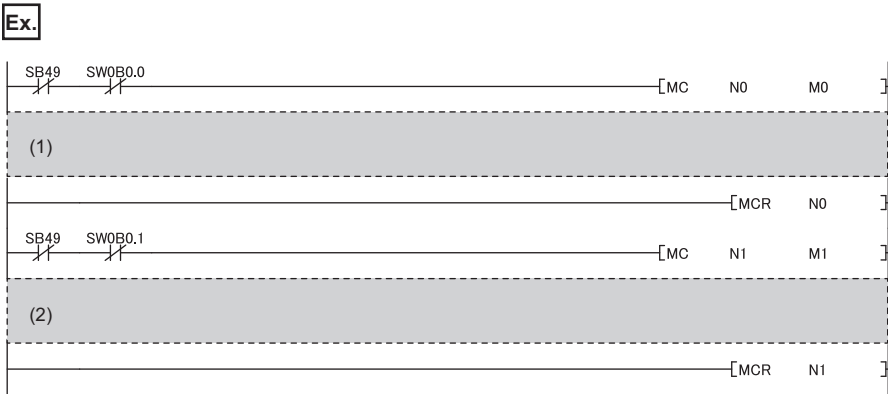
This section describes the precautions when creating programs using a MELSEC iQ-R series master module.

### Cyclic transmission interlock program

For a cyclic transmission program, configure an interlock between the following link special relay (SB) and the link special register (SW) so that the process is executed while the cyclic transmission is normally performed between the master station and slave station.

- SB0049: Data link error status of the own station (master station)
- SW00B0.0: Data link status (each station) (station number 1)
- SW00B0.1: Data link status (each station) (station number 2)

 User's manual for the master station used

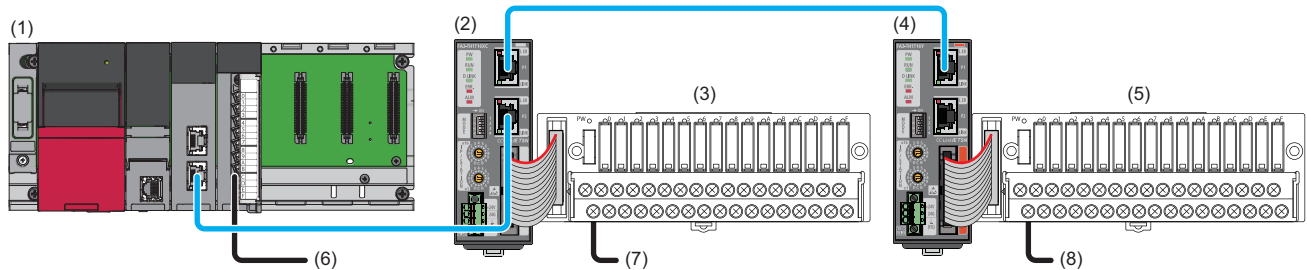


- (1) Program for communications with station number 1
- (2) Program for communications with station number 2

## Example of digital I/O

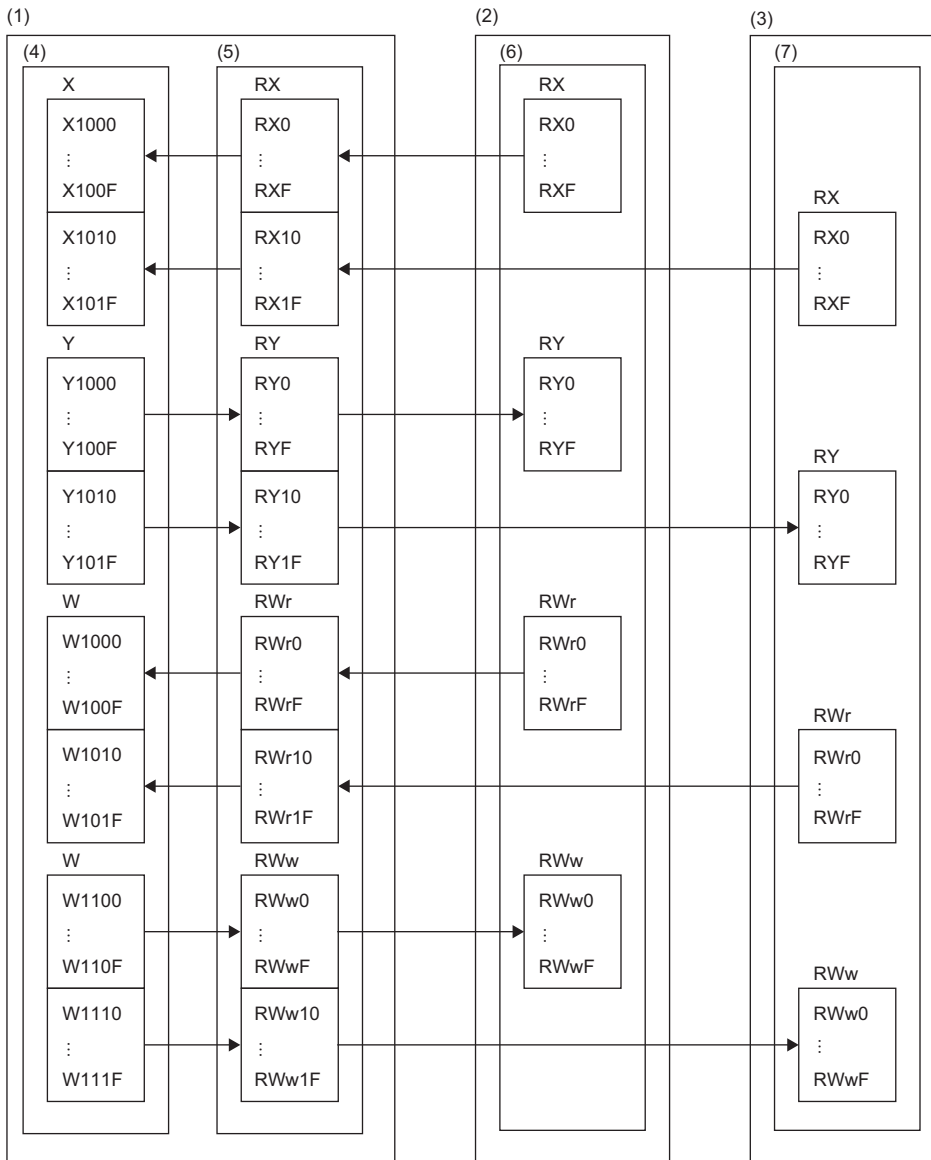
The following shows an example of the program to turn on/off lamps when the push button switch is turned on/off in the CC-Link IE Field Network system.

### System configuration



No.	Description	Model	Name	Remarks
(1)	Master station	R62P	Power supply module	—
		R04CPU	CPU module	—
		RJ71GF11-T2	CC-Link IE Field Network master/local module	Start I/O number: 0000H to 001FH
		RX40C7	DC input module (positive/negative common shared type)	Start I/O number: 0020H to 002FH
(6)		—	Error clear switch	X20
(2)	Remote device station (station number 1)	FA3-TH1T16XC	Network interface module (digital input)	IP address/station number setting switch: 1
(3)		FA-TH16XRA20S	Digital signal converter (input type)	☞ Page 16 Network interface module (digital input/output)
(7)		—	Push button switch	X1000
(4)	Remote device station (station number 2)	FA3-TH1T16Y	Network interface module (digital output)	IP address/station number setting switch: 2
(5)		FA-TH16YRA11	Digital signal converter (output type)	☞ Page 16 Network interface module (digital input/output)
(8)		—	Light	Y1010

## Assignment of devices



- (1) Master station
- (2) Remote device station (station number 1)
- (3) Remote device station (station number 2)
- (4) CPU module
- (5) CC-Link IE Field Network master/local module
- (6) Network interface module (digital input)
- (7) Network interface module (digital output)

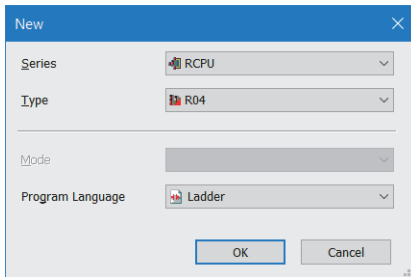


## Parameter setting

Connect an engineering tool to the CPU module of the master station and create a project.

1. Set the CPU module in the following window.

 [Project] ⇒ [New]




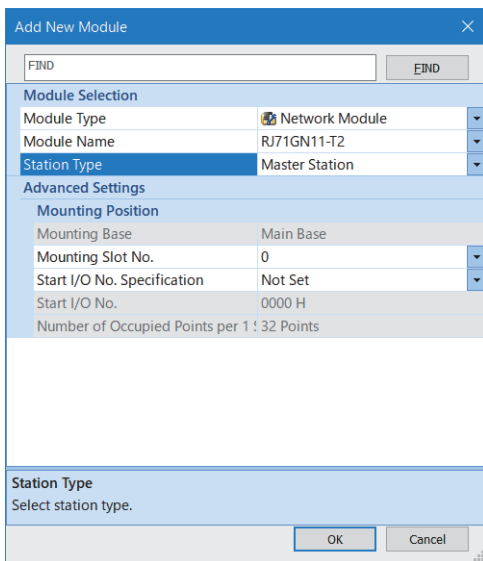
The 'New' dialog box is shown with the following settings:

Field	Value
Series	RCPU
Type	R04
Mode	
Program Language	Ladder

Buttons: OK, Cancel

2. Set the master/local module in the following window.

 [Navigation window] ⇒ [Parameter] ⇒ Right-click [Module Information] ⇒ [Add New Module]



The 'Add New Module' dialog box is shown with the following settings:

Module Selection	
Module Type	Network Module
Module Name	RJ71GN11-T2
Station Type	Master Station

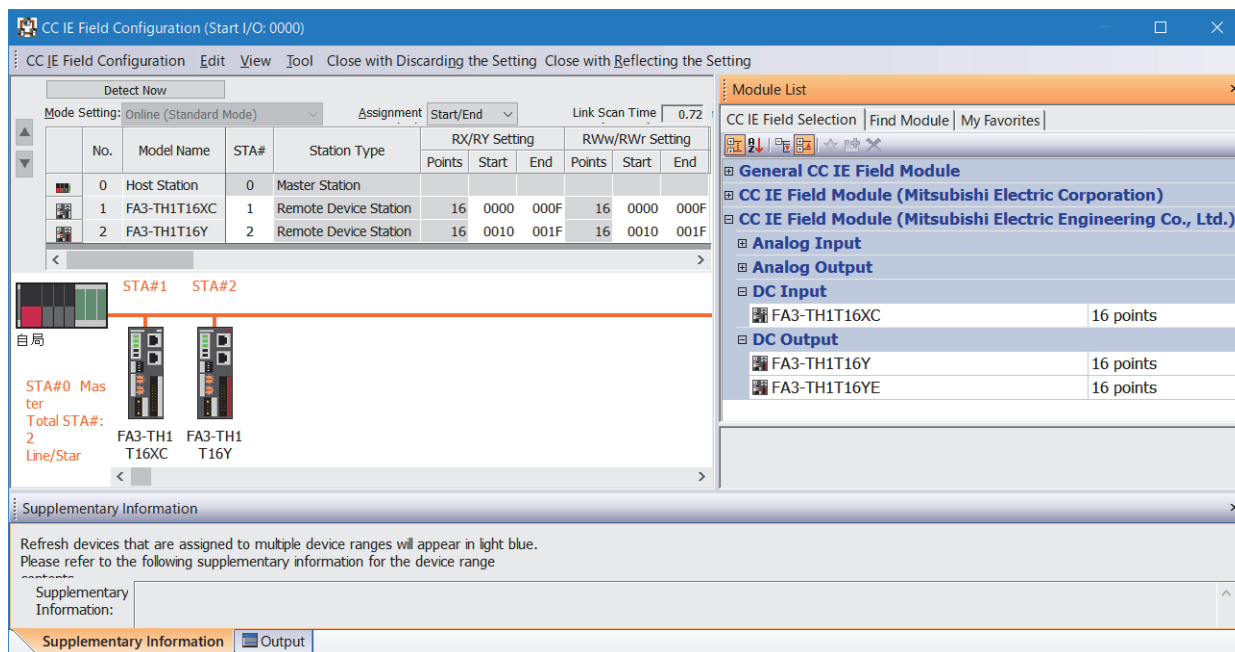
Advanced Settings

Mounting Position	
Mounting Base	Main Base
Mounting Slot No.	0
Start I/O No. Specification	Not Set
Start I/O No.	0000 H
Number of Occupied Points per 1 : 32 Points	

Station Type  
Select station type.

Buttons: OK, Cancel

3. Configure the settings on the "CC IE Field Configuration" window as follows. (☞ Page 179 Slave station parameter processing)



4. Open the refresh parameter setting window and set as follows.

☞ [Navigation window] ⇒ [Parameter] ⇒ [Module Information] ⇒ Model ⇒ [Basic Settings] ⇒ [Refresh Settings]

No.	Link Side					CPU Side				
	Device Name	Points	Start	End		Target	Device Name	Points	Start	End
-	SB	512	00000	001 FF	☞	Specify Device	SB	512	00000	001 FF
-	SW	512	00000	001 FF	☞	Specify Device	SW	512	00000	001 FF
1	RX	32	00000	0001 F	☞	Specify Device	X	32	01 000	01 01 F
2	RY	32	00000	0001 F	☞	Specify Device	Y	32	01 000	01 01 F
3	RWw	32	00000	0001 F	☞	Specify Device	W	32	01 000	01 01 F
4	RWw	32	00000	0001 F	☞	Specify Device	W	32	011 00	011 1 F

5. Click the [Apply] button.
6. Write the set parameters to the CPU module of the master station and reset the CPU module of the master station, or power on the programmable controller.
- ☞ [Online] ⇒ [Write to PLC]
7. Set the CPU module of the master station to RUN, and check that the D LINK LED of the network interface module is turned on.

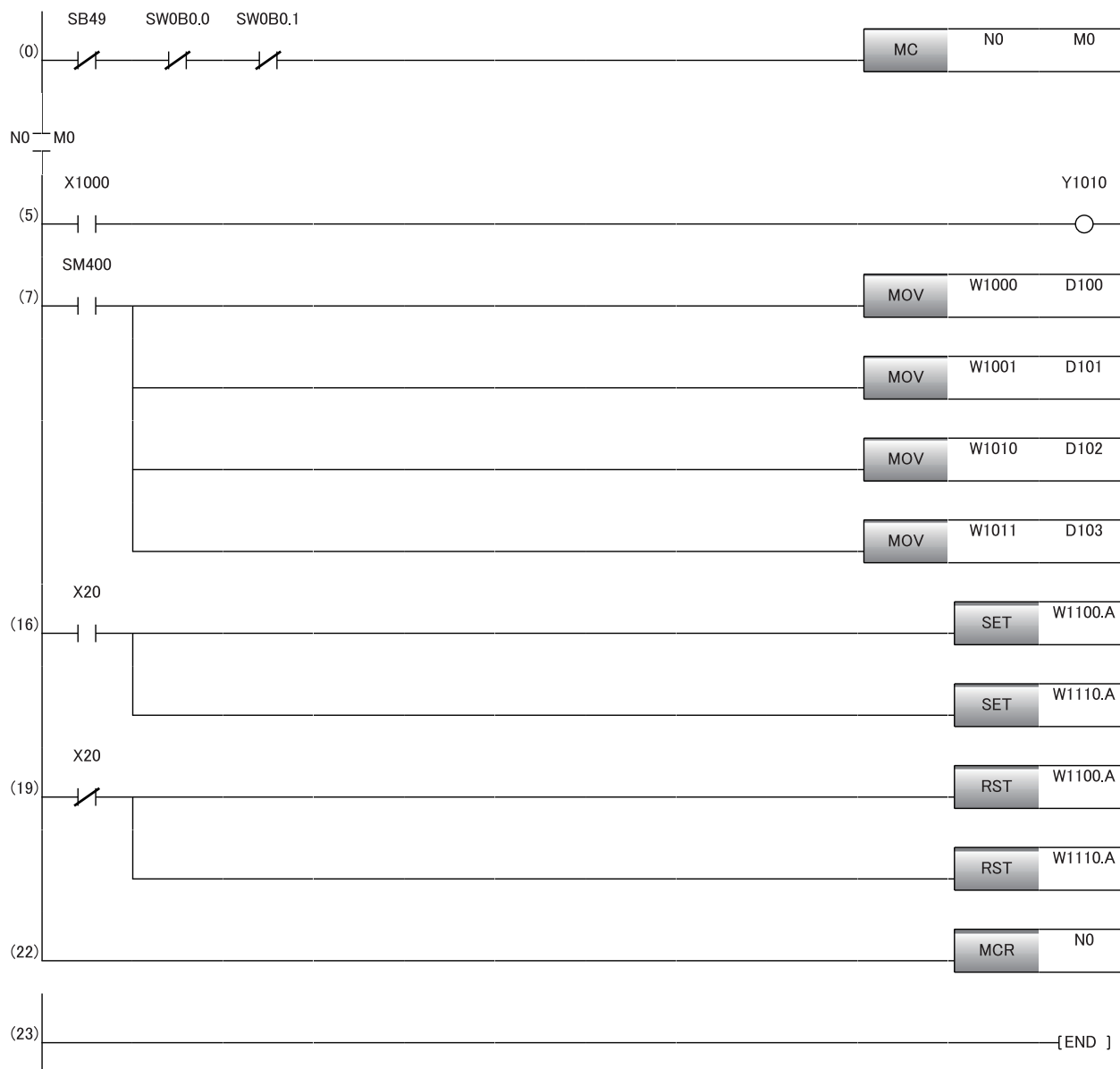
### Point

In the program example, the default settings are used for parameters other than the above.

## Program example

### ■Devices to be used

Device	Description	
X1000	RX0 input signal (push button switch) of the remote device station (station number 1)	FA3-TH1T16XC (RX0 to RXF)
Y1010	RY0 output signal (lamp) of the remote device station (station number 2)	FA3-TH1T16Y (RY0 to RYF)
X20	Error clear switch	Input module (X20 to X2F)
D100	Latest error code (station number 1)	
D101	Latest alarm code (station number 1)	
D102	Latest error code (station number 2)	
D103	Latest alarm code (station number 2)	
M0	Master control contacts	
N0	Nesting	
SB49	Data link error status of the own station (master station)	
SM400	Always ON	
SW0B0.0	Data link status of the remote device station (station number 1)	
SW0B0.1	Data link status of the remote device station (station number 2)	
W1000	Latest error code (station number 1) (device to be written by link refresh)	
W1001	Latest alarm code (station number 1) (device to be written by link refresh)	
W1010	Latest error code (station number 2) (device to be written by link refresh)	
W1011	Latest alarm code (station number 2) (device to be written by link refresh)	
W1100.A	Error clear request flag (station number 1)	
W1110.A	Error clear request flag (station number 2)	



(0) Data link status of the remote device station (station number 1 and 2) is checked.

(5) When RX0 of the remote device station (station number 1) is on, RY0 of the remote device station (station number 2) is turned on.

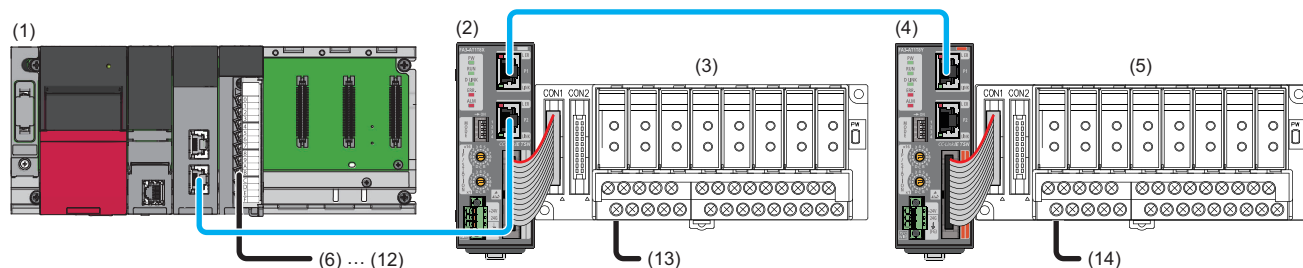
(7) The latest error code and latest alarm code are read.

(16), (19) The latest error code and latest alarm code are cleared.

## Program example for A/D conversion

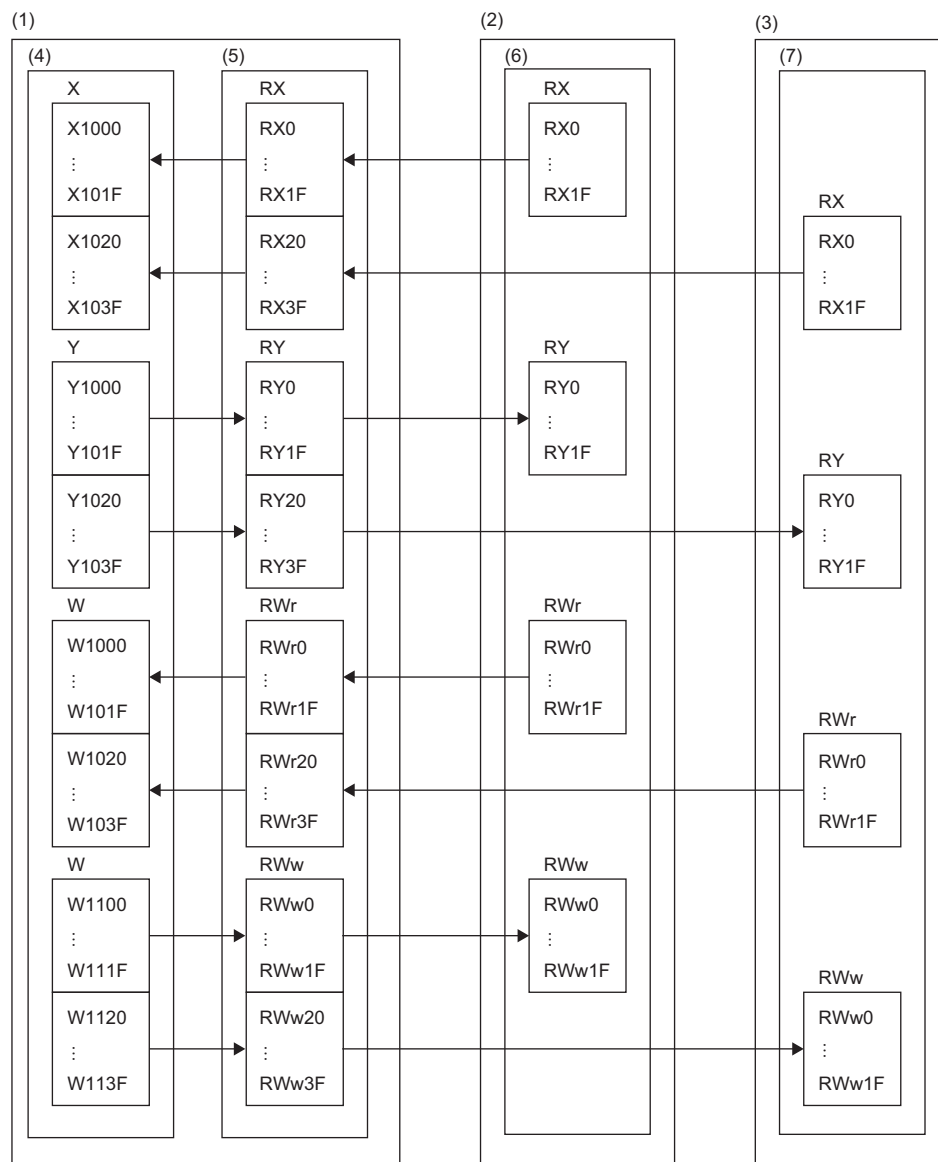
This section shows an example of the program to perform A/D conversion using the FA3-AT1T8X and FA3-AT1T8Y.

### System configuration



No.	Station name	Model	Name	Remarks
(1)	Master station	R62P	Power supply module	—
		R04CPU	CPU module	—
		RJ71GF11-T2	CC-Link IE Field Network master/local module	Start I/O number: 0000H to 001FH
		RX40C7	DC input module (positive/negative common shared type)	Start I/O number: 0020H to 002FH
(6)		—	Remote device station (station number 1) digital operation value read command	X20
(7)		—	Remote device station (station number 1) error clear command	X21
(8)		—	Remote device station (station number 1) maximum value/minimum value read command	X22
(9)		—	Remote device station (station number 1) maximum value/minimum value reset command	X23
(10)		—	Remote device station (station number 2) digital value write command	X24
(11)		—	Remote device station (station number 2) batch analog output enable command	X25
(12)		—	Remote device station (station number 2) error clear command	X26
(2)	Remote device station (station number 1)	FA3-AT1T8X	Network interface module (analog input)	IP address/station number setting switches: 1
(3)		FA-AT1T8XV05	Analog signal converter (input type)	☞ Page 16 Network interface module (digital input/output)
(13)		—	Thermocouple	AD
(4)	Remote device station (station number 2)	FA3-AT1T8Y	Network interface module (analog output)	IP address/station number setting switches: 2
(5)		FA-AT1T8YV010	Analog signal converter (output type)	☞ Page 16 Network interface module (digital input/output)
(14)		—	Motor controller	DA

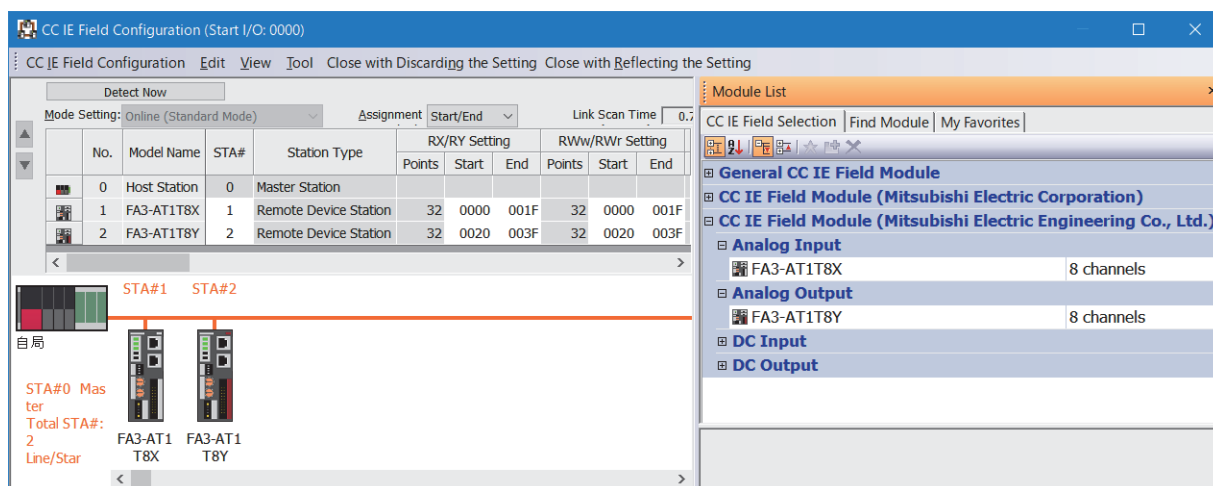
## Assignment of devices



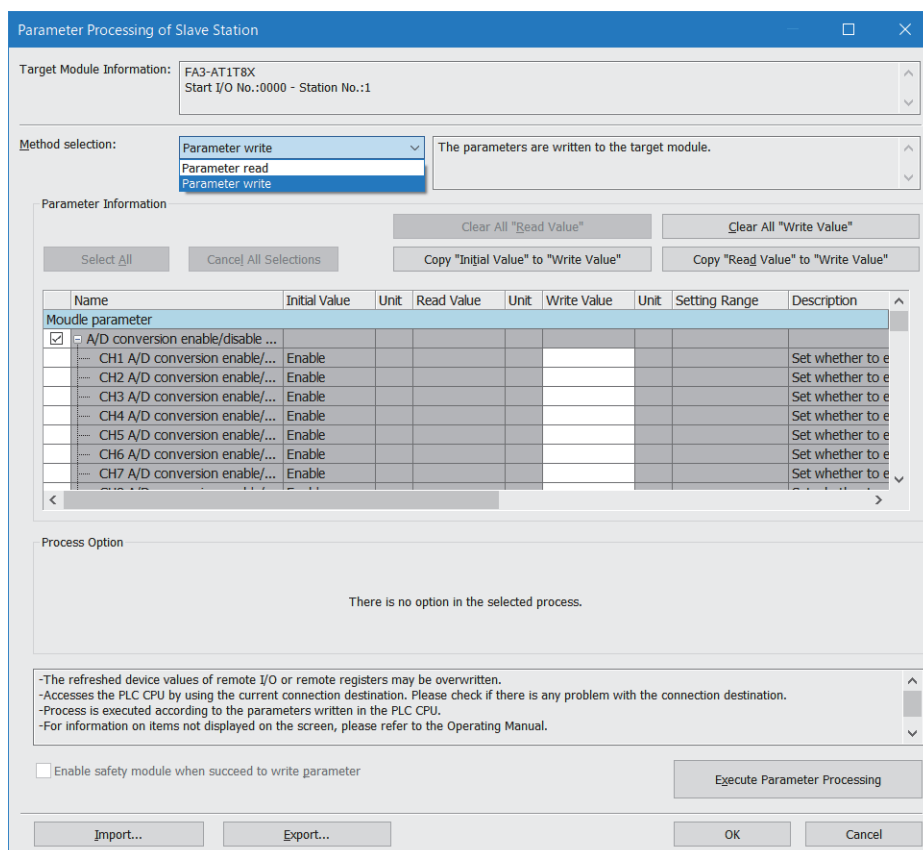
- (1) Master station
- (2) Remote device station (station number 1)
- (3) Remote device station (station number 2)
- (4) CPU module
- (5) CC-Link IE Field Network master/local module
- (6) Network interface module (analog input)
- (7) Network interface module (analog output)

## Parameter setting

1. Configure the settings for the CPU module in the same way as the example for digital I/O. (☞ Page 184 Parameter setting)
2. Configure the settings for the master/local module in the same way as the example for digital I/O. (☞ Page 184 Parameter setting)
3. Configure the settings on the "CC IE Field Configuration" window as follows. (☞ Page 179 Slave station parameter processing)



4. Set "Method selection" in the "Parameter Processing of Slave Station" window to "Parameter write".









Click [Copy "Read Value" to "Write Value"] button and change "Write value" as follows.

Target device information	Name	Write value
FA3-AT1T8X Start I/O No.: 0000 - station number: 1	CH1 A/D conversion enable/disable setting	Enable
	CH2 A/D conversion enable/disable setting	Enable
	CH3 A/D conversion enable/disable setting	Enable
	CH4 A/D conversion enable/disable setting	Enable
	CH7 A/D conversion enable/disable setting	Enable
	CH8 A/D conversion enable/disable setting	Enable
	CH1 Input signal error detection setting	Input signal error detection
	CH3 Input signal error detection setting	Input signal error detection
	CH2 Warning output setting	Enable
	CH2 Process alarm upper upper limit value	15000
	CH2 Process alarm upper lower limit value	14000
	CH2 Process alarm lower upper limit value	2000
	CH2 Process alarm lower lower limit value	-10
FA3-AT1T8Y (station number 2) Start I/O No.: 0000 - station number: 2	CH1 D/A conversion enable/disable setting	Enable
	CH2 D/A conversion enable/disable setting	Enable
	CH3 D/A conversion enable/disable setting	Enable
	CH4 D/A conversion enable/disable setting	Enable
	CH7 D/A conversion enable/disable setting	Enable
	CH8 D/A conversion enable/disable setting	Enable
	CH2 Warning output setting	Enable
	CH2 Warning output upper limit value	15000
	CH2 Warning output lower limit value	-10

5. Open the refresh parameter setting window and set as follows.

 [Navigation window] ⇒ [Parameter] ⇒ [Module Information] ⇒ Model ⇒ [Basic Settings] ⇒ [Refresh Settings]

No.	Link Side					CPU Side				
	Device Name	Points	Start	End		Target	Device Name	Points	Start	End
-	SB	512	00000	001 FF		Specify Devi	SB	512	00000	001 FF
-	SW	512	00000	001 FF		Specify Devi	SW	512	00000	001 FF
1	RX	64	00000	0003F		Specify Devi	X	64	01 000	01 03F
2	RY	64	00000	0003F		Specify Devi	Y	64	01 000	01 03F
3	RWr	64	00000	0003F		Specify Devi	W	64	01 000	01 03F
4	RWw	64	00000	0003F		Specify Devi	W	64	01 100	01 13F

6. Click the [Apply] button.

7. Write the set parameters to the CPU module of the master station and reset the CPU module of the master station, or power on the programmable controller.

 [Online] ⇒ [Write to PLC]

8. Set the CPU module of the master station to RUN, and check that the D LINK LED of the network interface module is turned on.



In the program example, the default settings are used for parameters other than the above.

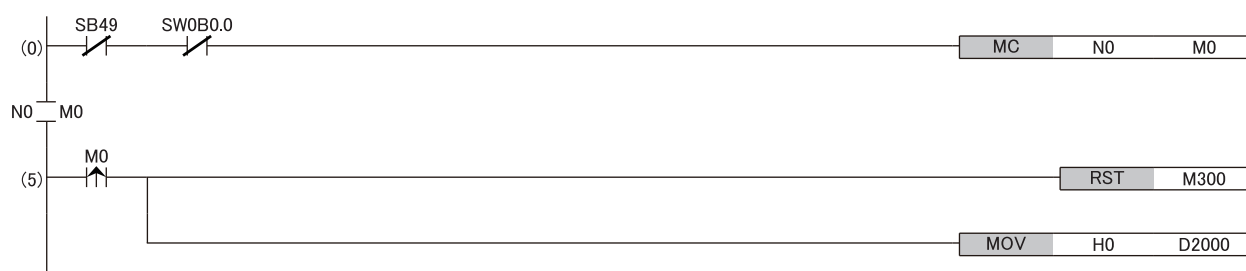


## Program example

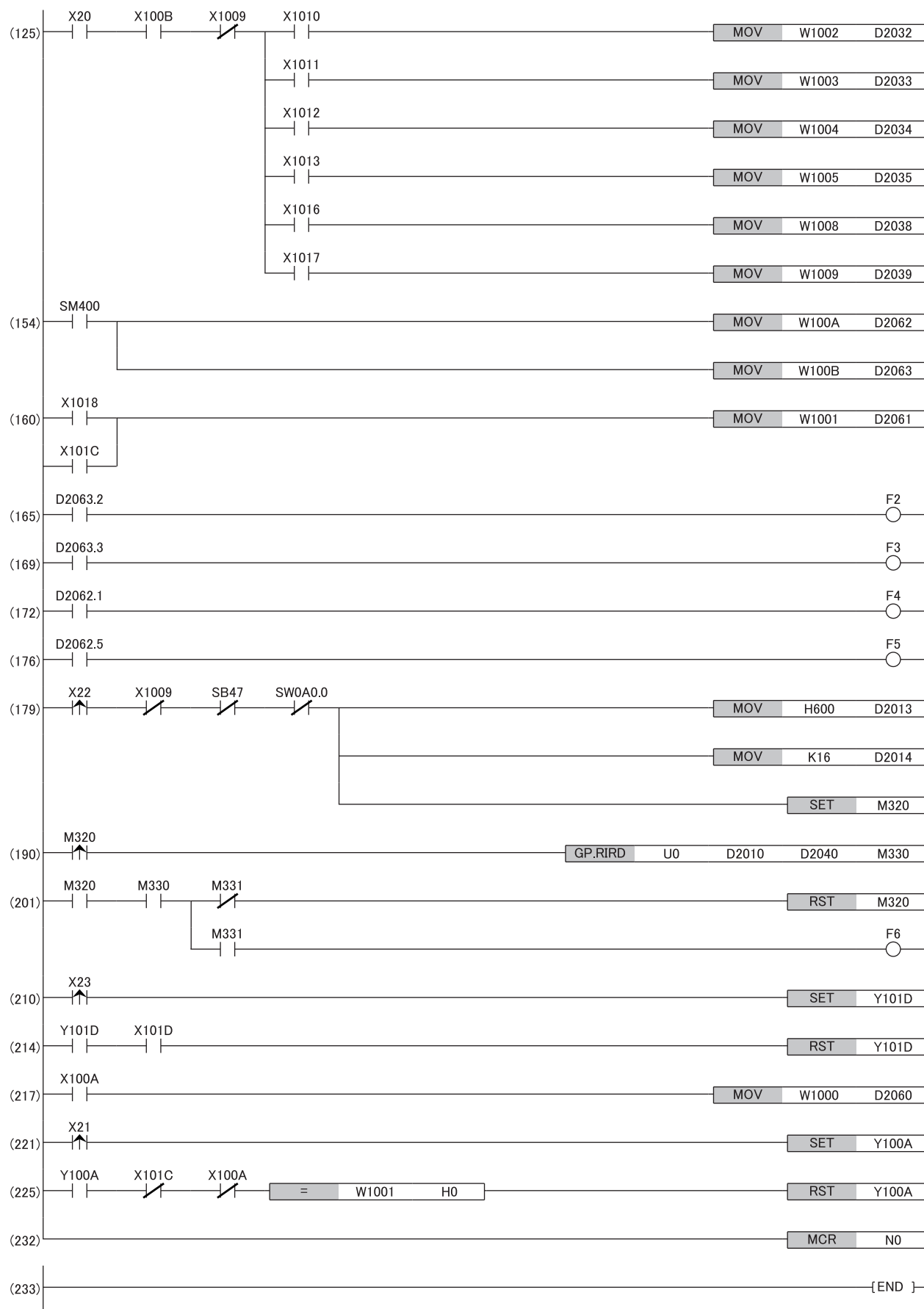
### ■Devices to be used

Device	Description	Module
X20	Digital operation value read command	RX40C7 (X20 to X2F)
X21	Error clear command	
X22	Maximum value/minimum value read command	
X23	Maximum value/minimum value reset command	
X1009	Initial data setting completion flag	FA3-AT1T8X (RX0 to RX1F)
X100A	Error status flag	
X100B	Remote READY	
X1010	CH1 A/D conversion completion flag	
X1011	CH2 A/D conversion completion flag	
X1012	CH3 A/D conversion completion flag	
X1013	CH4 A/D conversion completion flag	
X1016	CH7 A/D conversion completion flag	
X1017	CH8 A/D conversion completion flag	
X1018	Warning output signal	
X101C	Input signal error detection signal	
X101D	Maximum value/minimum value reset completed flag	
Y1009	Initial data setting request flag	FA3-AT1T8X (RY0 to RY1F)
Y100A	Error clear request flag	
Y101D	Maximum value/minimum value reset request	
W1000	Latest error code	FA3-AT1T8X (RWr0 to RWr1F)
W1001	Latest alarm code	
W1002	CH1 Digital operation value	
W1003	CH2 Digital operation value	
W1004	CH3 Digital operation value	
W1005	CH4 Digital operation value	
W1008	CH7 Digital operation value	
W1009	CH8 Digital operation value	
W100A	Input signal error detection flag	
W100B	Warning output flag	
D2000	Initial processing execution status	
D2010	RIRD/RIWT instruction control data completion status	
D2011	RIRD/RIWT instruction control data target station number	
D2012	RIRD/RIWT instruction control data access code/attribute code	
D2013	RIRD/RIWT instruction control data device number	
D2014	RIRD/RIWT instruction control data number of read/write points	
D2020	RIWT instruction write data [0]	
D2021	RIWT instruction write data [1]	
D2022	RIWT instruction write data [2]	
D2023	RIWT instruction write data [3]	
D2032	CH1 Device for storing digital operation value	
D2033	CH2 Device for storing digital operation value	
D2034	CH3 Device for storing digital operation value	
D2035	CH4 Device for storing digital operation value	
D2038	CH7 Device for storing digital operation value	
D2039	CH8 Device for storing digital operation value	
D2040	CH1 Device for storing maximum value	
D2041	CH1 Device for storing minimum value	
D2042	CH2 Device for storing maximum value	
D2043	CH2 Device for storing minimum value	

Device	Description	Module
D2044	CH3 Device for storing maximum value	
D2045	CH3 Device for storing minimum value	
D2046	CH4 Device for storing maximum value	
D2047	CH4 Device for storing minimum value	
D2052	CH7 Device for storing maximum value	
D2053	CH7 Device for storing minimum value	
D2054	CH8 Device for storing maximum value	
D2055	CH8 Device for storing minimum value	
D2060	Device for storing the latest error code	
D2061	Device for storing the latest alarm code	
D2062	Device for storing Input signal error detection flag	
D2063	Device for storing Warning output flag	
M0	Communication ready flag	
M300	Initial setting completion flag	
M310	RIWT instruction completion flag	
M311	RIWT instruction abnormal completion flag	
M320	Maximum value/minimum value read flag	
M330	RIRD instruction completion flag	
M331	RIRD instruction abnormal completion flag	
F1	Initial setting failure	
F2	CH2 Warning output upper limit occurrence	
F3	CH2 Warning output lower limit occurrence	
F4	CH1 Disconnection occurrence	
F5	CH3 Disconnection occurrence	
F6	Maximum value/minimum value read failure	
SM400	Always ON	
SB47	Baton pass status of the own station (master station)	
SB49	Data link error status of the own station (master station)	
SW0A0.0	Baton pass status of the remote device station (station number 1)	
SW0B0.0	Data link status of the remote device station (station number 1)	
N0	Nesting	







(0) Data link status of the remote device station (station number 1) is checked.  
(4), (12) Initial processing  
(125) The digital operation value is read.  
(154) Input signal error detection flag and Warning output flag are detected.  
(160) The latest alarm code is read.  
(165), (169) Processing at warning occurrence  
(172), (176) The processing at input signal error occurrence is performed.  
(179), (190), (201) The maximum and minimum values are read.  
(210), (214) The maximum and minimum values are reset.  
(217) The latest error code is read.  
(221), (225) The latest error code and latest alarm code are cleared.

# Program example for D/A Conversion

This section shows an example of the program to perform D/A conversion using the FA3-AT1T8X and FA3-AT1T8Y.

## System configuration

Page 188 System configuration

## Assignment of devices

Page 189 Assignment of devices

## Parameter setting

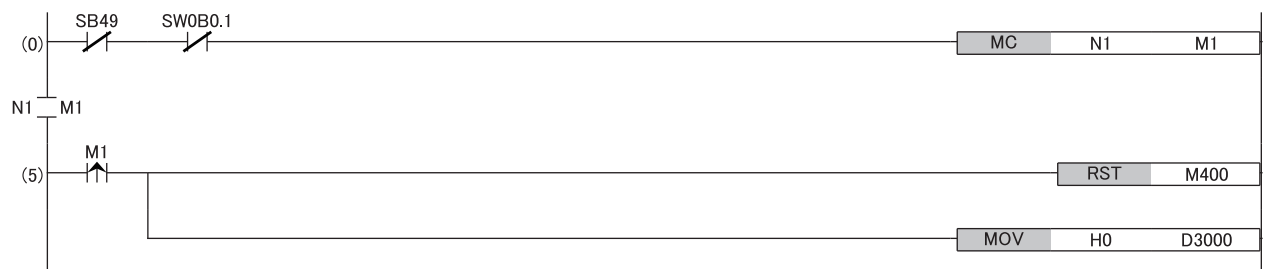
Page 190 Parameter setting

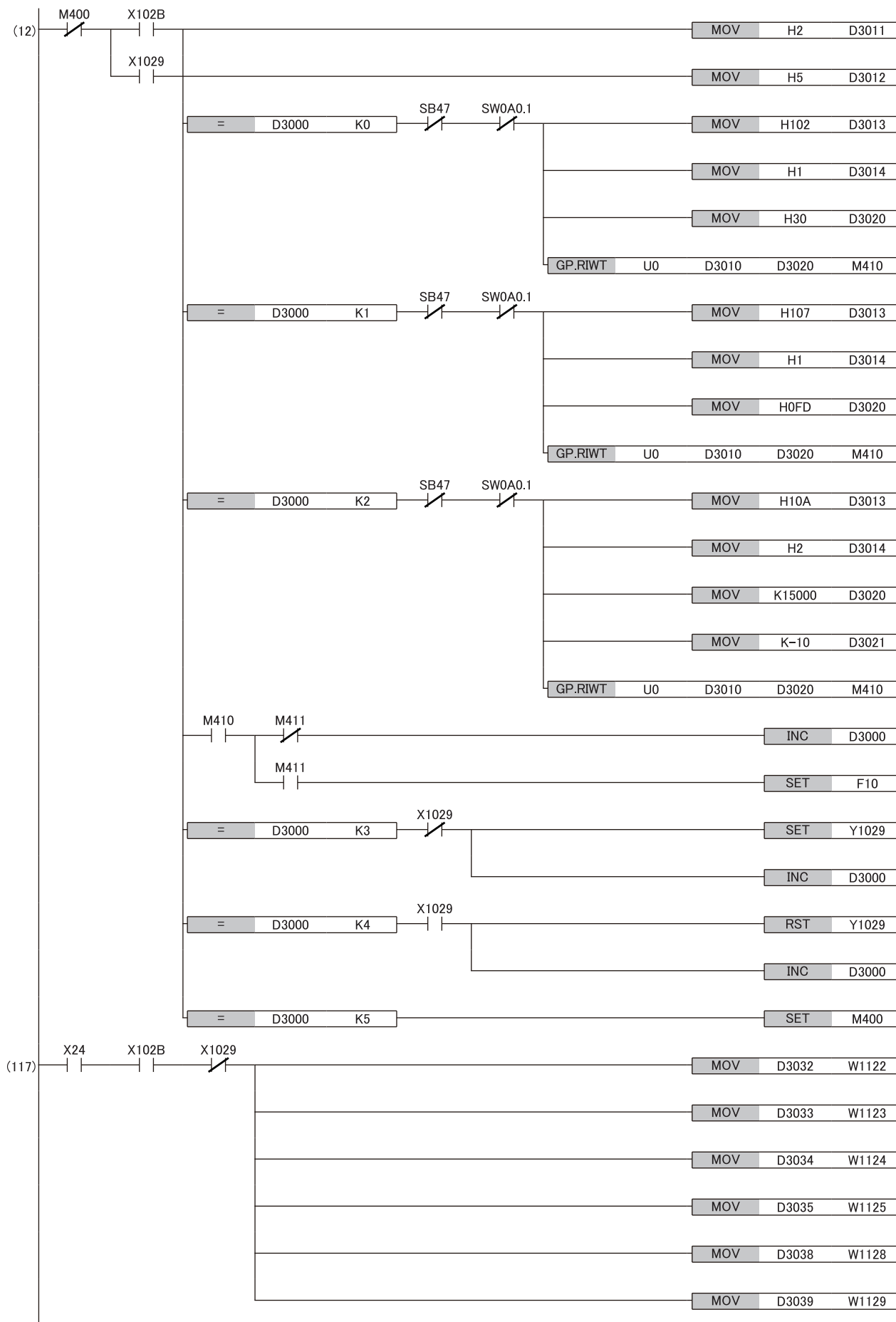
## Program example

### ■Devices to be used

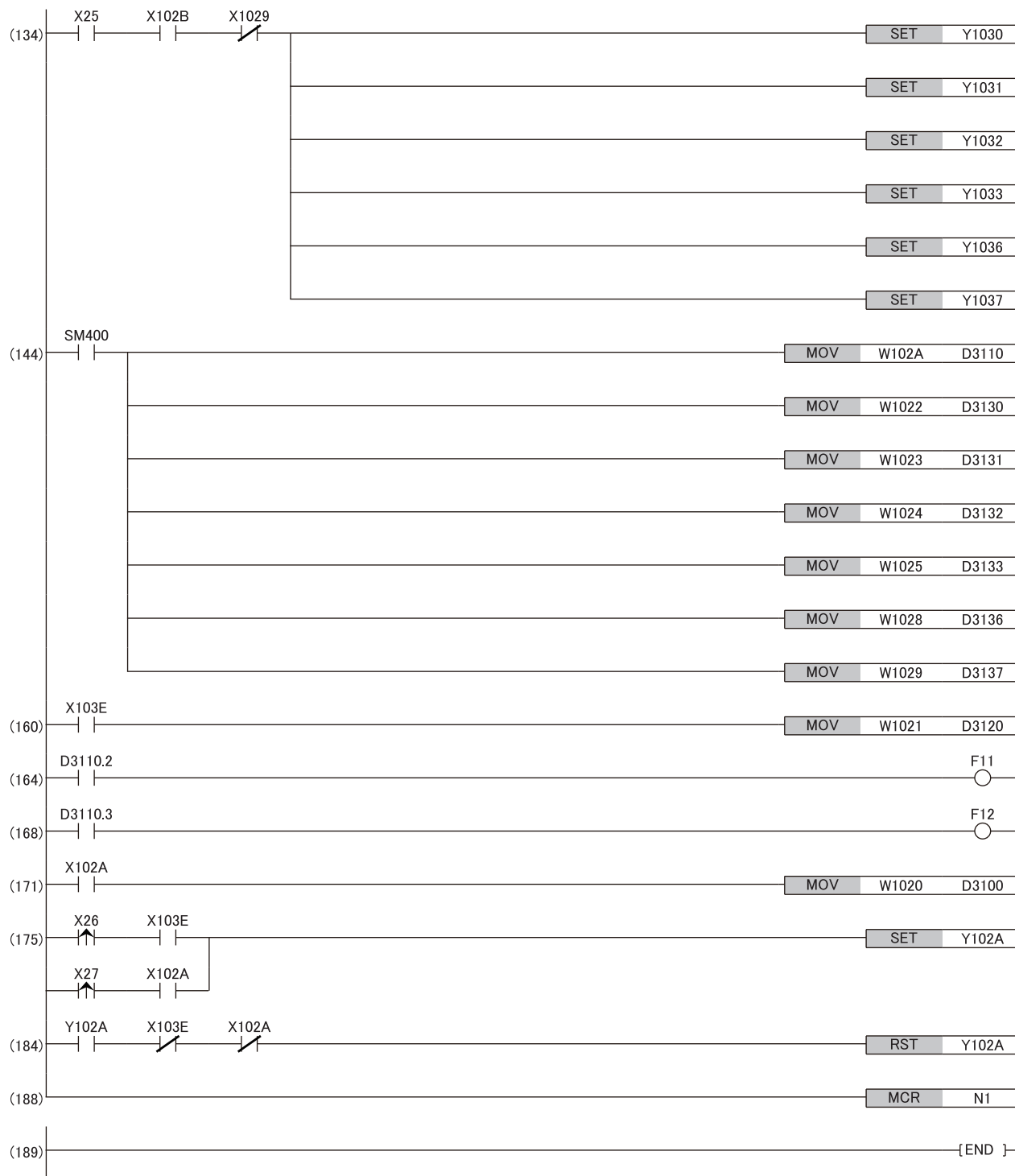
Device	Description	Module
X24	Digital value write command	RX40C7 (X20 to X2F)
X25	Batch analog output enable command	
X26	Warning output clear command	
X27	Error clear command	
X1029	Initial data setting completion flag	FA3-AT1T8Y (RX0 to RX1F)
X102A	Error status flag	
X102B	Remote READY	
X103E	Warning output signal	
Y1029	Initial data setting request flag	FA3-AT1T8Y (RY0 to RY1F)
Y102A	Error clear request flag	
Y1030	CH1 Output enable/disable flag	
Y1031	CH2 Output enable/disable flag	
Y1032	CH3 Output enable/disable flag	
Y1033	CH4 Output enable/disable flag	
Y1036	CH7 Output enable/disable flag	
Y1037	CH8 Output enable/disable flag	
W1122	CH1 Digital value	FA3-AT1T8Y (RWw0 to RWw1F)
W1123	CH2 Digital value	
W1124	CH3 Digital value	
W1125	CH4 Digital value	
W1128	CH7 Digital value	
W1129	CH8 Digital value	
W1020	Latest error code	FA3-AT1T8Y (RWr0 to RWr1F)
W1021	Latest alarm code	
W1022	CH1 Set value check code	
W1023	CH2 Set value check code	
W1024	CH3 Set value check code	
W1025	CH4 Set value check code	
W1028	CH7 Set value check code	
W1029	CH8 Set value check code	
W102A	Warning output flag	
D3000	Initial processing execution status	
D3010	RIWT instruction control data (completion status)	
D3011	RIWT instruction control data (target station number)	
D3012	RIWT instruction control data (access code/attribute code)	
D3013	RIWT instruction control data (device number)	

Device	Description	Module
D3014	RIWT instruction control data (number of write points)	
D3020	RIWT instruction write data [0]	
D3021	RIWT instruction write data [1]	
D3032	CH1 Device for storing digital value	
D3033	CH2 Device for storing digital value	
D3034	CH3 Device for storing digital value	
D3035	CH4 Device for storing digital value	
D3038	CH7 Device for storing digital value	
D3039	CH8 Device for storing digital value	
D3100	Device for storing the latest error code	
D3110	Device for storing Warning output flag	
D3120	Device for storing the latest alarm code	
D3130	CH1 Device for storing set value check code	
D3131	CH2 Device for storing set value check code	
D3132	CH3 Device for storing set value check code	
D3133	CH4 Device for storing set value check code	
D3136	CH7 Device for storing set value check code	
D3137	CH8 Device for storing set value check code	
M1	Communication ready flag	
M400	Initial setting completion flag	
M410	RIWT instruction completion flag	
M411	RIWT instruction abnormal completion flag	
F10	Initial setting failure	
F11	CH2 Upper limit warning occurrence	
F12	CH2 Lower limit warning occurrence	
SM400	Always ON	
SM402	On only for 1 scan after RUN	
SB47	Baton pass status of the own station (master station)	
SB49	Data link error status of the own station (master station)	
SW0A0.1	Baton pass status of the remote device station (station number 2)	
SW0B0.1	Data link status of the remote device station (station number 2)	
N1	Nesting	









- (0) Data link status of the remote device station (station number 2) is checked.  
 (5), (12) Initial processing  
 (117) A digital value is written.  
 (134) The output of the D/A conversion value is allowed.  
 (144) Detection processing for Warning output flag and Set value check code is performed.  
 (160) The latest alarm code is read.  
 (164), (168) The processing to be performed when a CH2 warning occurs is performed.  
 (171) The latest error code is read.  
 (175), (184) The latest error code and latest alarm code are cleared.