

CC-Link IE Field Network Digital-Analog Converter Module FB Library Reference Manual

Applicable module:

NZ2GFCE-60DAV8, NZ2GFCE-60DAI8

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Reference Manual Revision History

| Reference Manual Number | Date | Description |
|-------------------------|---------|---------------|
| FBM-M178-A | 2017/01 | First edition |

1. Overview

1.1. Overview of the FB Library

This FB Library is for using the CC-Link IE Field Network Digital-Analog Converter Module NZ2GFCE-60DAV8, NZ2GFCE-60DAI8.

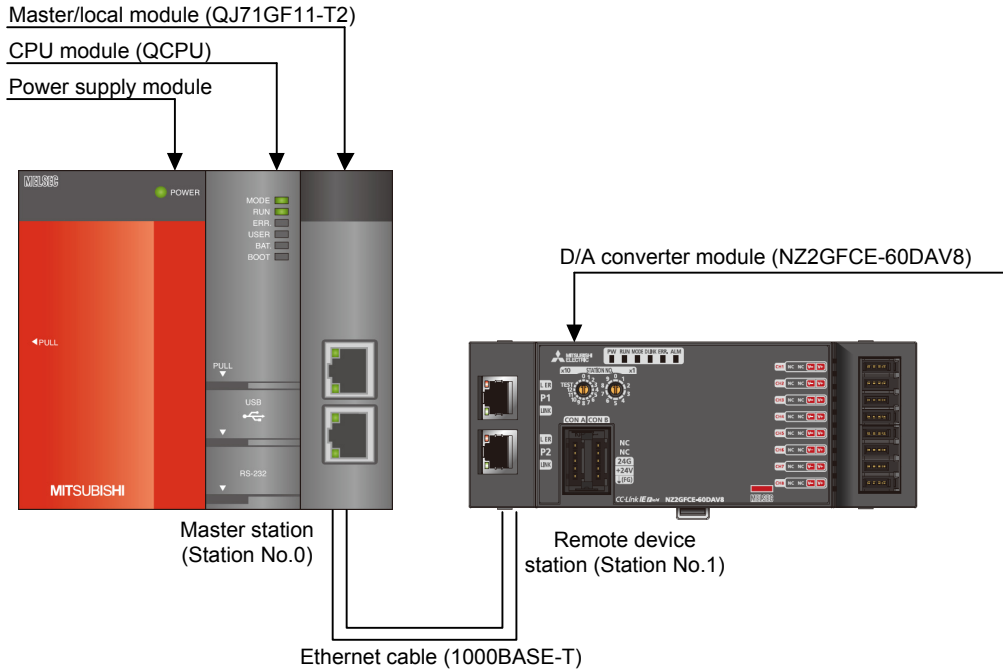
1.2. Function of the FB Library

| Item | Description |
|------------------------------|---|
| M+NZ2GFCE60DA_SetInitData | Configures the initial data setting. |
| M+NZ2GFCE60DA_ErrorOperation | Monitors the error status and the warning status and clears an error and an alert output. |

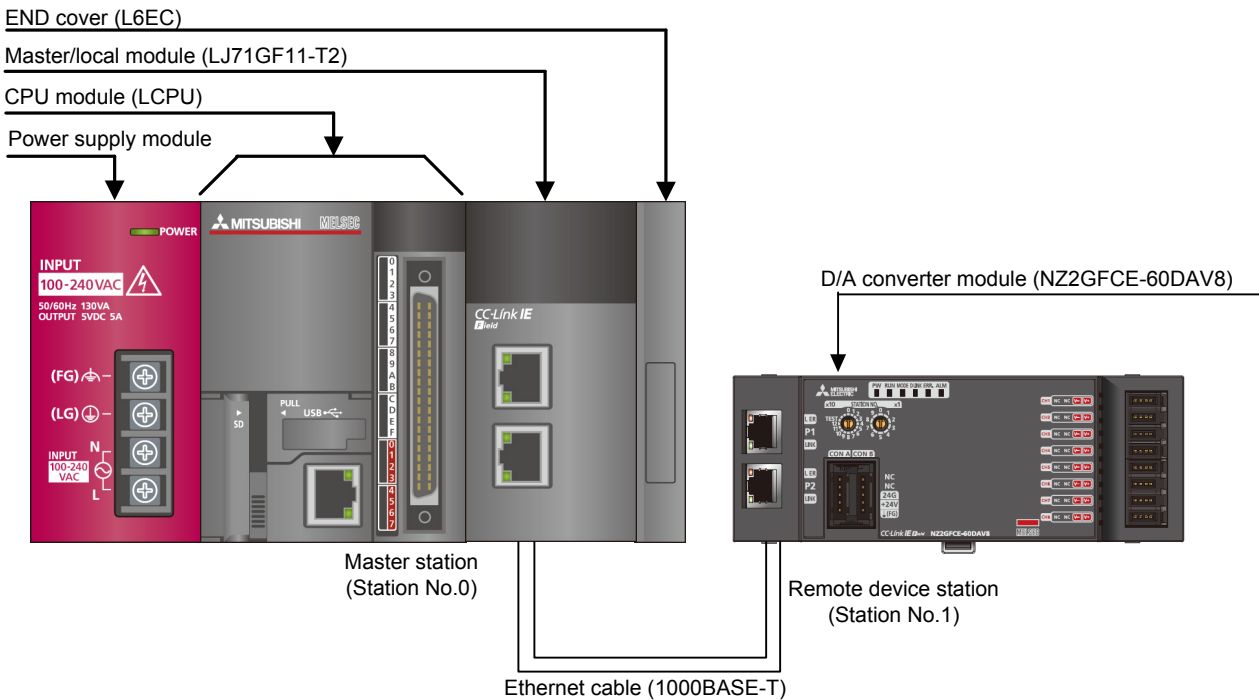
1.3. System Configuration Example

The following shows the system configuration when the digital-analog converter module (NZ2GFCE-60DAV8) is used as the remote device station.

(1) Q-series system configuration



(2) L-series system configuration



1.4. Setting the CC-Link IE Field Network Master/Local Module

This section explains the setting of the CC-Link IE Field Network master/local module based on Section "1.3 System Configuration Example". Set the following items with GX Works2.

(1) Network parameters

| Item | Description |
|---------------|--|
| Network Type | Select "CC IE Field (Master Station)". |
| Start I/O No. | Set the start I/O number of the master/local module in increments of 16 points. Set "0000". |
| Network No. | Set the network number of the master/local module. Set "1". |

* Select this checkbox.



set network configuration setting in CC IE Field configuration window

| | Module 1 | Module 2 |
|----------------|---|----------|
| Network Type | CC IE Field (Master Station) ▼ | None ▼ |
| Start I/O No. | 0000 | |
| Network No. | 1 | |
| Total Stations | 1 | |
| Group No. | | |
| Station No. | 0 | |
| Mode | Online (Normal Mode) ▼ | ▼ |
| | CC IE Field Configuration Setting | |
| | Network Operation Settings | |
| | Refresh Parameters | |
| | Interrupt Settings | |
| | Specify Station No. by Parameter ▼ | |
| | | |
| | | |
| | | |
| | | |

(2) CC IE Field configuration setting

| Item | Description |
|-----------------|---|
| Station No. | Set the station number of the remote device stations connected to the master station. Set "1". |
| Station Type | Set the station type of the remote device stations connected to the master station. Set "Remote Device Station". |
| RX/Ry Setting | Set assignment for RX/Ry for the remote device station connected to the master station. (a) Start Set "0000". (b) End Set "001F". |
| RWw/RWr Setting | Set assignment for RWw/RWr for the remote device station connected to the master station. (a) Start Set "0000". (b) End Set "0017". |

[When using NZ2GFCE-60DAV8]

| | No. | Model Name | STA# | Station Type | RX/Ry Setting | | | RWw/RWr Setting | | |
|---|-----|----------------|------|-----------------------|---------------|-------|------|-----------------|-------|------|
| | | | | | Points | Start | End | Points | Start | End |
|  | 0 | Host Station | 0 | Master Station | | | | | | |
|  | 1 | NZ2GFCE-60DAV8 | 1 | Remote Device Station | 32 | 0000 | 001F | 24 | 0000 | 0017 |

*Set the module to be used according to the environment.

(3) Refresh parameter setting

| Item | Description | Setting value |
|-------------|--|---|
| Transfer SB | Select the link refresh range of SB device. | <ul style="list-style-type: none"> • "Link Side Points" : 512 • "Link Side Start" : 0000 • "PLC Side Dev. Name": SB • "PLC Side Start" : 0000 |
| Transfer SW | Select the link refresh range of SW device. | <ul style="list-style-type: none"> • "Link Side Points" : 512 • "Link Side Start" : 0000 • "PLC Side Dev. Name": SW • "PLC Side Start" : 0000 |
| Transfer 1 | Select the link refresh range of RX device. | <ul style="list-style-type: none"> • "Link Side Dev. Name": RX • "Link Side Points" : 32 • "Link Side Start" : 0000 • "PLC Side Dev. Name": M • "PLC Side Start" : 1024 |
| Transfer 2 | Select the link refresh range of RY device. | <ul style="list-style-type: none"> • "Link Side Dev. Name": RY • "Link Side Points" : 32 • "Link Side Start" : 0000 • "PLC Side Dev. Name": M • "PLC Side Start" : 2048 |
| Transfer 3 | Select the link refresh range of RWr device. | <ul style="list-style-type: none"> • "Link Side Dev. Name": RWr • "Link Side Points" : 24 • "Link Side Start" : 0000 • "PLC Side Dev. Name": W • "PLC Side Start" : 1000 |
| Transfer 4 | Select the link refresh range of RWw device. | <ul style="list-style-type: none"> • "Link Side Dev. Name": RWw • "Link Side Points" : 24 • "Link Side Start" : 0000 • "PLC Side Dev. Name": W • "PLC Side Start" : 1100 |

* Make sure to set "0000" for Start of Link Side.

* Change the Points of Link Side and Dev. Name and Start of PLC Side according to the system.

They must be the same as for "M_F_RX", "M_F_RY", and "M_F_RWr" devices of the global label setting.

Assignment Method

- Points/Start
- Start/End

* Set 0000 for the start address of Link Side.

| | Link Side | | | | | PLC Side | | | |
|-------------|-----------|--------|-------|------|---|-----------|--------|--------|--------|
| | Dev. Name | Points | Start | End | | Dev. Name | Points | Start | End |
| Transfer SB | SB | 512 | 0000 | 01FF | ↔ | SB | 512 | 0000 | 01FF |
| Transfer SW | SW | 512 | 0000 | 01FF | ↔ | SW | 512 | 0000 | 01FF |
| Transfer 1 | RX | 32 | 0000 | 001F | ↔ | M | 32 | 1024 | 1055 |
| Transfer 2 | RY | 32 | 0000 | 001F | ↔ | M | 32 | 2048 | 2079 |
| Transfer 3 | RWr | 24 | 0000 | 0017 | ↔ | W | 24 | 001000 | 001017 |
| Transfer 4 | RWw | 24 | 0000 | 0017 | ↔ | W | 24 | 001100 | 001117 |
| Transfer 5 | | | | | ↔ | | | | |
| Transfer 6 | | | | | ↔ | | | | |
| Transfer 7 | | | | | ↔ | | | | |
| Transfer 8 | | | | | ↔ | | | | |

Default Check End Cancel

1.5. Setting Global Labels

Global labels must be set before using this FB. This section explains global label settings.

(1) M_F_RX Set remote input (RX).

| Item | Description |
|------------|--|
| Class | Select "VAR_GLOBAL". |
| Label Name | Enter "M_F_RX". |
| Data Type | Select "Bit". |
| Device | Enter the refresh device set for the refresh parameter with a "Z9" prefix. |

(2) M_F_RY Set remote output (RY).

| Item | Description |
|------------|--|
| Class | Select "VAR_GLOBAL". |
| Label Name | Enter "M_F_RY". |
| Data Type | Select "Bit". |
| Device | Enter the refresh device set for the refresh parameter with a "Z8" prefix. |

(3) M_F_RWr Set remote output (RWr).

| Item | Description |
|------------|--|
| Class | Select "VAR_GLOBAL". |
| Label Name | Enter "M_F_RWr". |
| Data Type | Select "Word[Signed]". |
| Device | Enter the refresh device set for the refresh parameter with a "Z7" prefix. |

| | Class | Label Name | Data Type | Constant | Device | Comment |
|---|------------|------------|--------------|----------|---------|--------------------|
| 1 | VAR_GLOBAL | M_F_RX | Bit | ... | M1024Z9 | RX refresh device |
| 2 | VAR_GLOBAL | M_F_RY | Bit | ... | M2048Z8 | RY refresh device |
| 3 | VAR_GLOBAL | M_F_RWr | Word[Signed] | ... | w1000Z7 | RWr refresh device |
| 4 | | | | ... | | |
| 5 | | | | ... | | |

1.6. Creating Interlock Programs

Interlock programs must be created for the FBs. The following is an example of an interlock program.

Set one interlock program to the cyclic transmission.

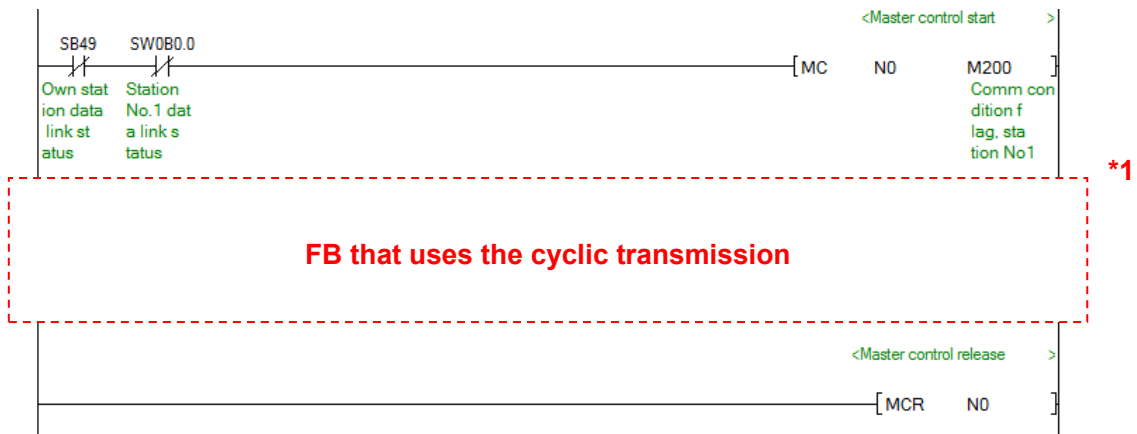
(Set a corresponding FB between MC and MCR instructions.)

1.6.1. Cyclic Transmission Program

Use link special relay (SB) and link special register (SW) to create an interlock for a cyclic transmission program.

- Own station data link status (SB0049)
- Each station data link status (SW00B0 to SW00B7)

Example: Interlock example (station No.1)



*1 All the FBs in this manual use the cyclic transmission.

1.7. Relevant Manuals

- CC-Link IE Field Network Digital-Analog Converter Module User's Manual
- MELSEC-Q CC-Link IE Field Network Master/Local Module User's Manual
- MELSEC-L CC-Link IE Field Network Master/Local Module User's Manual
- QCPU User's Manual (Hardware Design, Maintenance and Inspection)
- MELSEC-L CPU Module User's Manual (Hardware Design, Maintenance and Inspection)
- GX Works2 Version 1 Operating Manual (Common)
- GX Works2 Version 1 Operating Manual (Simple Project, Function Block)

1.8. Note

Please make sure to read user's manuals for the corresponding products before using the products.

2. Details of the FB Library

2.1. M+NZ2GFCE60DA_SetInitData (Initial data setting)

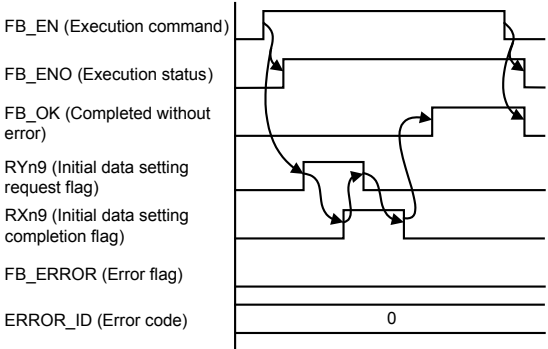
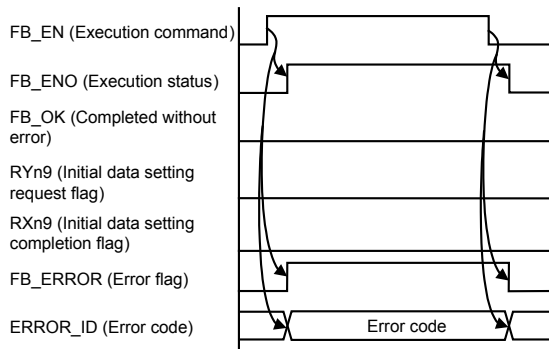
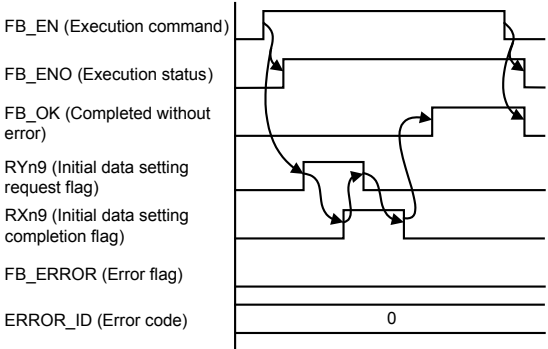
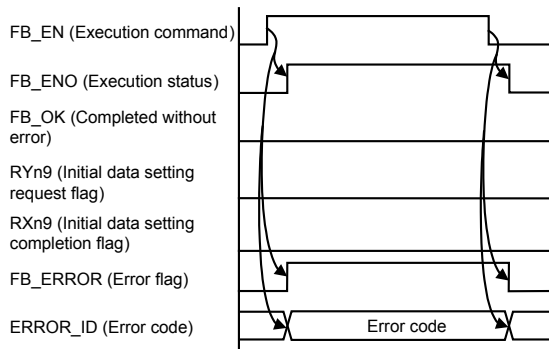
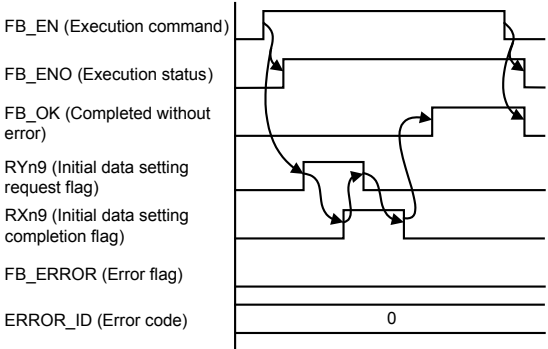
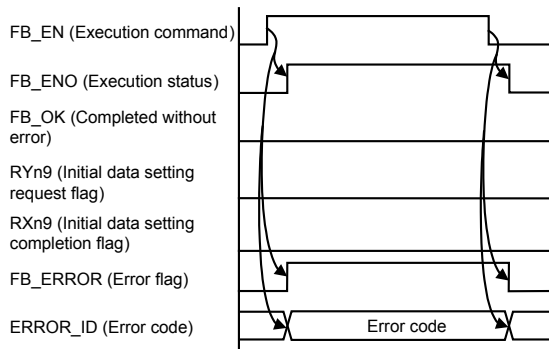
FB Name

M+NZ2GFCE60DA_SetInitData

Function Overview

| Item | Description | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|--|---------------------------|------------------|--------------------|------------------------|-----------------|------------------------|------------------------------|-------------------------|-------------------------------|------------------------|-------------------------|------------------------|------------------|--------------|------------|--|--|--------------|------------|
| Function overview | Configures the initial data setting. | | | | | | | | | | | | | | | | | | | | |
| Symbol | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center;">M+NZ2GFCE60DA_SetInitData</th> </tr> </thead> <tbody> <tr> <td style="text-align: right;">Execution command</td> <td>B : FB_EN</td> <td>FB_ENO : B</td> <td>Execution status</td> </tr> <tr> <td style="text-align: right;">Module start XY address</td> <td>W : i_Start_IO_No</td> <td>FB_OK : B</td> <td>Completed without error</td> </tr> <tr> <td style="text-align: right;">Station No.</td> <td>W : i_Station_No</td> <td>FB_ERROR : B</td> <td>Error flag</td> </tr> <tr> <td></td> <td></td> <td>ERROR_ID : W</td> <td>Error code</td> </tr> </tbody> </table> | | M+NZ2GFCE60DA_SetInitData | | | Execution command | B : FB_EN | FB_ENO : B | Execution status | Module start XY address | W : i_Start_IO_No | FB_OK : B | Completed without error | Station No. | W : i_Station_No | FB_ERROR : B | Error flag | | | ERROR_ID : W | Error code |
| M+NZ2GFCE60DA_SetInitData | | | | | | | | | | | | | | | | | | | | | |
| Execution command | B : FB_EN | FB_ENO : B | Execution status | | | | | | | | | | | | | | | | | | |
| Module start XY address | W : i_Start_IO_No | FB_OK : B | Completed without error | | | | | | | | | | | | | | | | | | |
| Station No. | W : i_Station_No | FB_ERROR : B | Error flag | | | | | | | | | | | | | | | | | | |
| | | ERROR_ID : W | Error code | | | | | | | | | | | | | | | | | | |
| Applicable hardware and software | CC-Link IE Field Network digital-analog converter module | NZ2GFCE-60DAV8, NZ2GFCE-60DAI8 | | | | | | | | | | | | | | | | | | | |
| | CC-Link IE Field Network module | CC-Link IE Field Network master/local module *1 *1 The first five digits of the serial number are "14102" or later. | | | | | | | | | | | | | | | | | | | |
| | CPU module | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Series</th> <th style="width: 50%;">Model</th> </tr> </thead> <tbody> <tr> <td>MELSEC-Q Series *1</td> <td>Universal model *2</td> </tr> <tr> <td>MELSEC-L Series</td> <td>LCPU *3</td> </tr> </tbody> </table> <p>*1 Not applicable to QCPU (A mode) *2 The first five digits of the serial number are "12012" or later. *3 The first five digits of the serial number are "13012" or later.</p> | Series | Model | MELSEC-Q Series *1 | Universal model *2 | MELSEC-L Series | LCPU *3 | | | | | | | | | | | | | |
| Series | Model | | | | | | | | | | | | | | | | | | | | |
| MELSEC-Q Series *1 | Universal model *2 | | | | | | | | | | | | | | | | | | | | |
| MELSEC-L Series | LCPU *3 | | | | | | | | | | | | | | | | | | | | |
| Engineering software | GX Works2 *1 | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Language</th> <th style="width: 50%;">Software version</th> </tr> </thead> <tbody> <tr> <td>Japanese version</td> <td>Version 1.86Q or later</td> </tr> <tr> <td>English version</td> <td>Version 1.24A or later</td> </tr> <tr> <td>Chinese (Simplified) version</td> <td>Version 1.49B or later</td> </tr> <tr> <td>Chinese (Traditional) version</td> <td>Version 1.49B or later</td> </tr> <tr> <td>Korean version</td> <td>Version 1.49B or later</td> </tr> </tbody> </table> <p>*1 For software versions applicable to the modules used, refer to "Relevant manuals".</p> | Language | Software version | Japanese version | Version 1.86Q or later | English version | Version 1.24A or later | Chinese (Simplified) version | Version 1.49B or later | Chinese (Traditional) version | Version 1.49B or later | Korean version | Version 1.49B or later | | | | | | | |
| Language | Software version | | | | | | | | | | | | | | | | | | | | |
| Japanese version | Version 1.86Q or later | | | | | | | | | | | | | | | | | | | | |
| English version | Version 1.24A or later | | | | | | | | | | | | | | | | | | | | |
| Chinese (Simplified) version | Version 1.49B or later | | | | | | | | | | | | | | | | | | | | |
| Chinese (Traditional) version | Version 1.49B or later | | | | | | | | | | | | | | | | | | | | |
| Korean version | Version 1.49B or later | | | | | | | | | | | | | | | | | | | | |
| Programming language | Ladder | | | | | | | | | | | | | | | | | | | | |

| Item | Description |
|----------------------|---|
| Number of steps | 440 steps (for MELSEC-Q series universal model CPU) * The number of steps of the FB in a program depends on the CPU model that is used and input and output definition. |
| Function description | <ol style="list-style-type: none"> 1) By turning ON FB_EN (Execution command), the operating condition of the target module is set. 2) FB operation is one-shot only, triggered by the FB_EN signal. 3) After FB_EN (Execution command) is turned ON, the FB is completed in multiple scans. 4) When the network configuration setting of the station number specified by i_Station_No (Station No.) is incorrect, FB_ERROR (Error flag) is turned ON and the processing is interrupted, and the error code 50 (decimal) is stored in ERROR_ID (Error code). Refer to the error code explanation section for details. 5) When the setting value of i_Station_No (Station No.) is out of range, the FB_ERROR output turns ON, processing is interrupted, and the error code 60 (Decimal) is stored in ERROR_ID (Error code). Refer to the error code explanation section for details. |
| Compiling method | Macro type |

| Item | Description | | |
|---|---|---|---|
| Restrictions and precautions | <ol style="list-style-type: none"> 1) The FB does not include error recovery processing. Program the error recovery processing separately in accordance with the required system operation. 2) The FB cannot be used in an interrupt program. 3) Please ensure that the FB_EN signal is capable of being turned OFF by the program. Do not use this FB in programs that are only executed once such as a subroutine, FOR-NEXT loop because it is impossible to turn OFF. 4) This FB uses index registers Z8 and Z9. Please do not use these index registers in an interrupt program. 5) A duplicated coil warning may occur during compile operation due to the RY signal being operated by index modification in the FB. However this is not a problem and the FB will operate without error. 6) Every input must be provided with a value for proper FB operation. 7) This FB uses the cyclic transmission. Therefore, an interlock program for the cyclic transmission is required. For the interlock program, refer to "1.6.1 Cyclic Transmission Program". 8) Set the refresh device of the network parameter setting according to "1.4 Setting the CC-Link IE Field Network Master/Local Module". 9) Set the global label setting according to "1.5 Setting Global Labels". 10) Only one master/local module can be controlled by the CC-Link IE Field system FB. To control 2 or more master/local modules by the FB, refer to "Appendix 1. When Using the FB for 2 or More Master/Local Modules". 11) If processing of the FB is not completed, check if the station number of CC-Link IE Field matches with the network station number. | | |
| FB operation type | Pulsed execution (multiple scan execution type) | | |
| Application example | Refer to "Appendix 2. FB Library Application Examples". | | |
| Timing chart | <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top; padding-right: 20px;"> <p data-bbox="375 1411 885 1444">[When operation completes without error]</p>  <p data-bbox="454 1825 853 1859">n: The address assigned to the master module in the station number setting</p> </td> <td style="width: 50%; vertical-align: top;"> <p data-bbox="949 1411 1236 1444">[When an error occurs]</p>  <p data-bbox="1029 1825 1428 1859">n: The address assigned to the master module in the station number setting</p> </td> </tr> </table> | <p data-bbox="375 1411 885 1444">[When operation completes without error]</p>  <p data-bbox="454 1825 853 1859">n: The address assigned to the master module in the station number setting</p> | <p data-bbox="949 1411 1236 1444">[When an error occurs]</p>  <p data-bbox="1029 1825 1428 1859">n: The address assigned to the master module in the station number setting</p> |
| <p data-bbox="375 1411 885 1444">[When operation completes without error]</p>  <p data-bbox="454 1825 853 1859">n: The address assigned to the master module in the station number setting</p> | <p data-bbox="949 1411 1236 1444">[When an error occurs]</p>  <p data-bbox="1029 1825 1428 1859">n: The address assigned to the master module in the station number setting</p> | | |

| Item | Description |
|------------------|---|
| Relevant manuals | <ul style="list-style-type: none"> • CC-Link IE Field Network Digital-Analog Converter Module User's Manual • MELSEC-Q CC-Link IE Field Network Master/Local Module User's Manual • MELSEC-L CC-Link IE Field Network Master/Local Module User's Manual • QCPU User's Manual (Hardware Design, Maintenance and Inspection) • MELSEC-L CPU Module User's Manual (Hardware Design, Maintenance and Inspection) • GX Works2 Version 1 Operating Manual (Common) • GX Works2 Version 1 Operating Manual (Simple Project, Function Block) |

Error codes

●Error code list

| Error code | Description | Action |
|--------------|--|--|
| 50 (Decimal) | The network configuration setting of the station number specified by i_Station_No is incorrect. | Review the following setting. <ul style="list-style-type: none"> • Network configuration setting Refer to (2) of 1.4 Setting the CC-Link IE Field Network Master/Local Module. • The value entered in i_Station_No |
| 60 (Decimal) | The specified station number is not valid. The station number is not within the range of 1 to 120. | Please try again after confirming the setting. |

Labels

●Input labels

| Name (Comment) | Label name | Data type | Setting range | Description |
|-------------------------|---------------|-----------|--|--|
| Execution command | FB_EN | Bit | ON, OFF | ON: The FB is activated. OFF: The FB is not activated. |
| Module start XY address | i_Start_IO_No | Word | Depends on the I/O point range of the CPU. For details, refer to the CPU user's manual. | Specify the starting XY address (in hexadecimal) where the CC-Link IE Field Network master/local module is mounted or connected. (For example, enter H10 for X10.) |
| Station No. | i_Station_No | Word | 1 to 120 | Specify the station number of the target station. |

●Output labels

| Name (Comment) | Label name | Data type | Initial value | Description |
|-------------------------|------------|-----------|---------------|---|
| Execution status | FB_ENO | Bit | OFF | ON: Execution command is ON. OFF: Execution command is OFF. |
| Completed without error | FB_OK | Bit | OFF | When ON, it indicates that the initial data setting is completed. |
| Error flag | FB_ERROR | Bit | OFF | When ON, it indicates that an error has occurred. |
| Error code | ERROR_ID | Word | 0 | FB error code output. |

FB Version Upgrade History

| Version | Date | Description |
|---------|---------|---------------|
| 1.00A | 2017/01 | First edition |

Note

This chapter includes information related to the function block.

It does not include information on restrictions of use such as combination with modules or programmable controller CPUs.

Please make sure to read user's manuals for the corresponding products before using the products.

2.2. M+NZ2GFCE60DA_ErrorOperation (Error operation)

FB Name

M+NZ2GFCE60DA_ErrorOperation

Function Overview

| Item | Description | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|--|--|---------------------------|-----------|--------------------|--------------------|-------------------------|-------------------|-----------|---------------------------|-------------|------------------|------------------|------------------------|---------------------|------------------|---------------------|-------------------|----------------------------|---------------------|--------------------|---------------------------|--|--|---------------------|----------------------|--|--|--------------|------------|--|--|--------------|------------|
| Function overview | Monitors the error status and the warning status and clears an error and an alert output. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Symbol | <div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: fit-content;"> <p style="text-align: center; margin: 0;">M+NZ2GFCE60DA_ErrorOperation</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; border: none;">Execution command</td> <td style="width: 30%; border: none;">B : FB_EN</td> <td style="width: 30%; border: none;">FB_ENO : B</td> <td style="width: 10%; border: none;">Execution status</td> </tr> <tr> <td style="border: none;">Module start XY address</td> <td style="border: none;">W : i_Start_IO_No</td> <td style="border: none;">FB_OK : B</td> <td style="border: none;">Completed w without error</td> </tr> <tr> <td style="border: none;">Station No.</td> <td style="border: none;">W : i_Station_No</td> <td style="border: none;">o_UNIT_ERROR : B</td> <td style="border: none;">Module error detection</td> </tr> <tr> <td style="border: none;">Error clear request</td> <td style="border: none;">B : i_ErrorReset</td> <td style="border: none;">o_UNIT_ERR_CODE : W</td> <td style="border: none;">Module error code</td> </tr> <tr> <td style="border: none;">Alert output clear request</td> <td style="border: none;">B : i_AlertOutClear</td> <td style="border: none;">o_UNIT_WARNING : B</td> <td style="border: none;">Module w arning detection</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;"></td> <td style="border: none;">o_UNIT_WAR_CODE : W</td> <td style="border: none;">Module w arning code</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;"></td> <td style="border: none;">FB_ERROR : B</td> <td style="border: none;">Error flag</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;"></td> <td style="border: none;">ERROR_ID : W</td> <td style="border: none;">Error code</td> </tr> </table> </div> | | Execution command | B : FB_EN | FB_ENO : B | Execution status | Module start XY address | W : i_Start_IO_No | FB_OK : B | Completed w without error | Station No. | W : i_Station_No | o_UNIT_ERROR : B | Module error detection | Error clear request | B : i_ErrorReset | o_UNIT_ERR_CODE : W | Module error code | Alert output clear request | B : i_AlertOutClear | o_UNIT_WARNING : B | Module w arning detection | | | o_UNIT_WAR_CODE : W | Module w arning code | | | FB_ERROR : B | Error flag | | | ERROR_ID : W | Error code |
| Execution command | B : FB_EN | FB_ENO : B | Execution status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Module start XY address | W : i_Start_IO_No | FB_OK : B | Completed w without error | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Station No. | W : i_Station_No | o_UNIT_ERROR : B | Module error detection | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Error clear request | B : i_ErrorReset | o_UNIT_ERR_CODE : W | Module error code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alert output clear request | B : i_AlertOutClear | o_UNIT_WARNING : B | Module w arning detection | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | o_UNIT_WAR_CODE : W | Module w arning code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | FB_ERROR : B | Error flag | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | ERROR_ID : W | Error code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Applicable hardware and software | CC-Link IE Field Network digital-analog converter module | NZ2GFCE-60DAV8, NZ2GFCE-60DAI8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CC-Link IE Field Network module | CC-Link IE Field Network master/local module *1 *1 The first five digits of the serial number are "14102" or later. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CPU module | <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th style="width: 50%;">Series</th> <th style="width: 50%;">Model</th> </tr> </thead> <tbody> <tr> <td>MELSEC-Q Series *1</td> <td>Universal model *2</td> </tr> <tr> <td>MELSEC-L Series</td> <td>LCPU *3</td> </tr> </tbody> </table> <p>*1 Not applicable to QCPU (A mode) *2 The first five digits of the serial number are "12012" or later. *3 The first five digits of the serial number are "13012" or later.</p> | Series | Model | MELSEC-Q Series *1 | Universal model *2 | MELSEC-L Series | LCPU *3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Series | Model | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MELSEC-Q Series *1 | Universal model *2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MELSEC-L Series | LCPU *3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Item | Description | | | | | | | | | | | | | |
|-------------------------------|--|--|----------|------------------|------------------|-----------------------|-----------------|-----------------------|------------------------------|-----------------------|-------------------------------|-----------------------|----------------|-----------------------|
| | Engineering software | GX Works2 *1 <table border="1" data-bbox="691 248 1497 544"> <thead> <tr> <th data-bbox="691 248 1098 297">Language</th> <th data-bbox="1098 248 1497 297">Software version</th> </tr> </thead> <tbody> <tr> <td data-bbox="691 297 1098 347">Japanese version</td> <td data-bbox="1098 297 1497 347">Version1.86Q or later</td> </tr> <tr> <td data-bbox="691 347 1098 396">English version</td> <td data-bbox="1098 347 1497 396">Version1.24A or later</td> </tr> <tr> <td data-bbox="691 396 1098 445">Chinese (Simplified) version</td> <td data-bbox="1098 396 1497 445">Version1.49B or later</td> </tr> <tr> <td data-bbox="691 445 1098 495">Chinese (Traditional) version</td> <td data-bbox="1098 445 1497 495">Version1.49B or later</td> </tr> <tr> <td data-bbox="691 495 1098 544">Korean version</td> <td data-bbox="1098 495 1497 544">Version1.49B or later</td> </tr> </tbody> </table> <p data-bbox="691 555 1497 640">*1 For software versions applicable to the modules used, refer to "Relevant manuals".</p> | Language | Software version | Japanese version | Version1.86Q or later | English version | Version1.24A or later | Chinese (Simplified) version | Version1.49B or later | Chinese (Traditional) version | Version1.49B or later | Korean version | Version1.49B or later |
| Language | Software version | | | | | | | | | | | | | |
| Japanese version | Version1.86Q or later | | | | | | | | | | | | | |
| English version | Version1.24A or later | | | | | | | | | | | | | |
| Chinese (Simplified) version | Version1.49B or later | | | | | | | | | | | | | |
| Chinese (Traditional) version | Version1.49B or later | | | | | | | | | | | | | |
| Korean version | Version1.49B or later | | | | | | | | | | | | | |
| Programming language | Ladder | | | | | | | | | | | | | |
| Number of steps | 749 steps (for MELSEC-Q series universal model CPU) * The number of steps of the FB in a program depends on the CPU model that is used and input and output definition. | | | | | | | | | | | | | |
| Function description | <ol style="list-style-type: none"> <li data-bbox="371 891 1506 976">1) When FB_EN (Execution command) is turned ON, the error status and the warning status of the target module are monitored. <li data-bbox="371 987 1506 1072">2) o_UNIT_ERROR (Module error detection) is turned ON and an error code is stored in o_UNIT_ERR_CODE (Module error code) when an error occurs. <li data-bbox="371 1084 1506 1169">3) o_UNIT_WARNING (Module warning detection) is turned ON and a warning code is stored in o_UNIT_WAR_CODE (Module warning code) when a warning occurs. <li data-bbox="371 1180 1506 1310">4) An alarm code is stored in o_UNIT_WAR_CODE (Module warning code) when an alarm occurs, and o_UNIT_WARNING (Module warning detection) is turned ON when an alarm (a check code is generated) occurs. <li data-bbox="371 1321 1506 1597">5) After FB_EN (Execution command) is turned ON, an error is cleared when i_ErrorReset (Error clear request) is turned ON during error occurrence. A warning that has occurred is automatically cleared five seconds after the cause of the minor error in the module is eliminated. By turning ON i_AlertOutClear (Alert output clear request) during alarm (alert output) occurrence, an alert output is cleared. <li data-bbox="371 1608 1506 1787">6) When the network configuration setting of the station number specified by i_Station_No (Station No.) is incorrect, FB_ERROR (Error flag) is turned ON and the processing is interrupted, and the error code 50 (decimal) is stored in ERROR_ID (Error code). Refer to the error code explanation section for details. <li data-bbox="371 1798 1506 1980">7) When the setting value of i_Station_No (Station No.) is out of range, the FB_ERROR output turns ON, processing is interrupted, and the error code 60 (Decimal) is stored in ERROR_ID (Error code). Refer to the error code explanation section for details. | | | | | | | | | | | | | |

| Item | Description |
|------------------------------|--|
| Compiling method | Macro type |
| Restrictions and precautions | <ol style="list-style-type: none"> 1) The FB does not include error recovery processing. Program the error recovery processing separately in accordance with the required system operation. 2) The FB cannot be used in an interrupt program. 3) Please ensure that the FB_EN signal is capable of being turned OFF by the program. Do not use this FB in programs that are only executed once such as a subroutine, FOR-NEXT loop because it is impossible to turn OFF. 4) This FB uses index registers Z7 to Z9. Please do not use these index registers in an interrupt program. 5) A duplicated coil warning may occur during compile operation due to the RY signal being operated by index modification in the FB. However this is not a problem and the FB will operate without error. 6) Every input must be provided with a value for proper FB operation. 7) This FB uses the cyclic transmission. Therefore, an interlock program for the cyclic transmission is required. For the interlock program, refer to "1.6.1 Cyclic Transmission Program". 8) Set the refresh device of the network parameter setting according to "1.4 Setting the CC-Link IE Field Network Master/Local Module". 9) Set the global label setting according to "1.5 Setting Global Labels". 10) Only one master/local module can be controlled by the CC-Link IE Field system FB. To control 2 or more master/local modules by the FB, refer to "Appendix 1. When Using the FB for 2 or More Master/Local Modules". 11) If processing of the FB is not completed, check if the station number of CC-Link IE Field matches with the network station number. Check that the causes of errors, warnings, and alarms are all eliminated. |
| FB operation type | Real-time execution |
| Application example | Refer to "Appendix 2. FB Library Application Examples". |

| Item | Description | |
|------------------|---|-------------------------------|
| Timing chart | <p>[When operation completes without error]</p> | <p>[When an error occurs]</p> |
| Relevant manuals | <ul style="list-style-type: none"> • CC-Link IE Field Network Digital-Analog Converter Module User's Manual • MELSEC-Q CC-Link IE Field Network Master/Local Module User's Manual • MELSEC-L CC-Link IE Field Network Master/Local Module User's Manual • QCPU User's Manual (Hardware Design, Maintenance and Inspection) • MELSEC-L CPU Module User's Manual (Hardware Design, Maintenance and Inspection) • GX Works2 Version 1 Operating Manual (Common) • GX Works2 Version 1 Operating Manual (Simple Project, Function Block) | |

Error codes

●Error code list

| Error code | Description | Action |
|--------------|--|--|
| 50 (Decimal) | The network configuration setting of the station number specified by i_Station_No is incorrect. | Review the following setting. <ul style="list-style-type: none"> • Network configuration setting Refer to (2) of 1.4 Setting the CC-Link IE Field Network Master/Local Module. • The value entered in i_Station_No |
| 60 (Decimal) | The specified station number is not valid. The station number is not within the range of 1 to 120. | Please try again after confirming the setting. |

Labels

● Input labels

| Name (Comment) | Label name | Data type | Setting range | Description |
|----------------------------|-----------------|-----------|--|--|
| Execution command | FB_EN | Bit | ON, OFF | ON: The FB is activated. OFF: The FB is not activated. |
| Module start XY address | i_Start_IO_No | Word | Depends on the I/O point range of the CPU. For details, refer to the CPU user's manual. | Specify the starting XY address (in hexadecimal) where the CC-Link IE Field Network master/local module is mounted or connected. (For example, enter H10 for X10.) |
| Station No. | i_Station_No | Word | 1 to 120 | Specify the station number of the target station. |
| Error clear request | i_ErrorReset | Bit | ON, OFF | Turn ON for the error clear. Turn OFF after Completed without error (FB_OK) is turned ON. |
| Alert output clear request | i_AlertOutClear | Bit | ON, OFF | Turn ON for the alert output clear. Turn OFF after Completed without error (FB_OK) is turned ON. |

●Output labels

| Name (Comment) | Label name | Data type | Initial value | Description |
|--------------------------|-----------------|-----------|---------------|---|
| Execution status | FB_ENO | Bit | OFF | ON: Execution command is ON. OFF: Execution command is OFF. |
| Completed without error | FB_OK | Bit | OFF | When ON, it indicates that clearing the error or the alert output is completed. |
| Module error detection | o_UNIT_ERROR | Bit | OFF | When ON, it indicates that an error has occurred. |
| Module error code | o_UNIT_ERR_CODE | Word | 0 | Module error code output. |
| Module warning detection | o_UNIT_WARNING | Bit | OFF | When ON, it indicates that a warning has occurred. |
| Module warning code | o_UNIT_WAR_CODE | Word | 0 | Module warning code output. |
| Error flag | FB_ERROR | Bit | OFF | When ON, it indicates that an error has occurred. |
| Error code | ERROR_ID | Word | 0 | FB error code output. |

FB Version Upgrade History

| Version | Date | Description |
|---------|---------|---------------|
| 1.00A | 2017/01 | First edition |

Note

This chapter includes information related to the function block.

It does not include information on restrictions of use such as combination with modules or programmable controller CPUs.

Please make sure to read user's manuals for the corresponding products before using the products.

Appendix 1. When Using the FB for 2 or More Master/Local Modules

To use 2 or more CC-Link IE field master/local modules and to use an FB for the second and subsequent CC-Link IE field master/local modules, it is necessary to create an FB for the second and subsequent modules from the MELSOFT Library CC-Link IE field master/local module FB using the following procedure.

The following four steps are required to create the FB for the second and subsequent modules.

- (1) Enter network parameters
- (2) Set global labels
- (3) Copy MELSOFT Library to create the FB for the second module
- (4) Replace devices to create the FB for the second module

Appendix 1.1. Entering Network Parameters

(1) Enter the network parameters for the second module.

| Item | Description |
|---------------|--|
| Network Type | Select "CC IE Field (Master Station)". |
| Start I/O No. | Set the start I/O number of the master/local module in increments of 16 points. Set "0020". |
| Network No. | Set the network number of the master/local module. Set "2". |

*Select this checkbox.



Set network configuration setting in CC IE Field configuration window

| | Module 1 | Module 2 |
|----------------|---|---|
| Network Type | CC IE Field (Master Station) ▼ | CC IE Field (Master Station) ▼ |
| Start I/O No. | 0000 | 0020 |
| Network No. | 1 | 2 |
| Total Stations | 1 | 1 |
| Group No. | | |
| Station No. | 0 | 0 |
| Mode | Online (Normal Mode) ▼ | Online (Normal Mode) ▼ |
| | CC IE Field Configuration Setting | CC IE Field Configuration Setting |
| | Network Operation Settings | Network Operation Settings |
| | Refresh Parameters | Refresh Parameters |
| | Interrupt Settings | Interrupt Settings |
| | Specify Station No. by Parameter ▼ | Specify Station No. by Parameter ▼ |
| | | |
| | | |
| | | |

(2) Set the CC IE Field configuration setting for the second module.

| Item | Description |
|-----------------|---|
| Station No. | Set the station number of the remote device stations connected to the master station. Set "1". |
| Station Type | Set the station type of the remote device stations connected to the master station. Set "Remote Device Station". |
| RX/RV Setting | Set assignment for RX/RV for the remote device station connected to the master station. (a) Start Set "0000". (b) End Set "001F". |
| RWw/RWr Setting | Set assignment for RWw/RWr for the remote device station connected to the master station. (a) Start Set "0000". (b) End Set "0017". |

[When using NZ2GFCE-60DAV8]

| | No. | Model Name | STA# | Station Type | RX/RV Setting | | | RWw/RWr Setting | | |
|---|-----|----------------|------|-----------------------|---------------|-------|------|-----------------|-------|------|
| | | | | | Points | Start | End | Points | Start | End |
|  | 0 | Host Station | 0 | Master Station | | | | | | |
|  | 1 | NZ2GFCE-60DAV8 | 1 | Remote Device Station | 32 | 0000 | 001F | 24 | 0000 | 0017 |

*Set the module to be used according to the environment.

(3) Enter the network parameters for the second module.

| Item | Description | Setting value |
|-------------|--|---|
| Transfer SB | Select the link refresh range of SB device. | <ul style="list-style-type: none"> • "Link Side Points" : 512 • "Link Side Start" : 0000 • "PLC Side Dev. Name": SB • "PLC Side Start" : 0200 |
| Transfer SW | Select the link refresh range of SW device. | <ul style="list-style-type: none"> • "Link Side Points" : 512 • "Link Side Start" : 0000 • "PLC Side Dev. Name": SW • "PLC Side Start" : 0200 |
| Transfer 1 | Select the link refresh range of RX device. | <ul style="list-style-type: none"> • "Link Side Dev. Name": RX • "Link Side Points" : 32 • "Link Side Start" : 0000 • "PLC Side Dev. Name": M • "PLC Side Start" : 1056 |
| Transfer 2 | Select the link refresh range of RY device. | <ul style="list-style-type: none"> • "Link Side Dev. Name": RY • "Link Side Points" : 32 • "Link Side Start" : 0000 • "PLC Side Dev. Name": M • "PLC Side Start" : 2080 |
| Transfer 3 | Select the link refresh range of RWr device. | <ul style="list-style-type: none"> • "Link Side Dev. Name": RWr • "Link Side Points" : 24 • "Link Side Start" : 0000 • "PLC Side Dev. Name": W • "PLC Side Start" : 1018 |
| Transfer 4 | Select the link refresh range of RWw device. | <ul style="list-style-type: none"> • "Link Side Dev. Name": RWw • "Link Side Points" : 24 • "Link Side Start" : 0000 • "PLC Side Dev. Name": W • "PLC Side Start" : 1118 |

* Change the Points of Link Side and Dev. Name and Start of PLC Side according to the system.

Assignment Method

- Points/Start
- Start/End

| | Link Side | | | | | PLC Side | | | |
|-------------|-----------|--------|-------|------|---|-----------|--------|--------|--------|
| | Dev. Name | Points | Start | End | | Dev. Name | Points | Start | End |
| Transfer SB | SB | 512 | 0000 | 01FF | ↕ | SB | 512 | 0200 | 03FF |
| Transfer SW | SW | 512 | 0000 | 01FF | ↕ | SW | 512 | 0200 | 03FF |
| Transfer 1 | RX | 32 | 0000 | 001F | ↕ | M | 32 | 1056 | 1087 |
| Transfer 2 | RY | 32 | 0000 | 001F | ↕ | M | 32 | 2080 | 2111 |
| Transfer 3 | RWr | 24 | 0000 | 0017 | ↕ | W | 24 | 001018 | 00102F |
| Transfer 4 | RWw | 24 | 0000 | 0017 | ↕ | W | 24 | 001118 | 00112F |
| Transfer 5 | | | | | ↕ | | | | |
| Transfer 6 | | | | | ↕ | | | | |
| Transfer 7 | | | | | ↕ | | | | |
| Transfer 8 | | | | | ↕ | | | | |

Default Check End Cancel

Appendix 1.2. Entering Global Labels

Enter the global labels for the second module.

Specify label names for the second module. The names must be different from the label names for the first module.

The following explains how to set the global label for the second module.

(1) M_F_RX2 Set remote input (RX).

| Item | Description |
|------------|--|
| Class | Select "VAR_GLOBAL". |
| Label Name | Enter "M_F_RX2". |
| Data Type | Select "Bit". |
| Device | Enter the refresh device set for the refresh parameter with a "Z9" prefix. |

(2) M_F_RY2 Set remote output (RY).

| Item | Description |
|------------|--|
| Class | Select "VAR_GLOBAL". |
| Label Name | Enter "M_F_RY2". |
| Data Type | Select "Bit". |
| Device | Enter the refresh device set for the refresh parameter with a "Z8" prefix. |

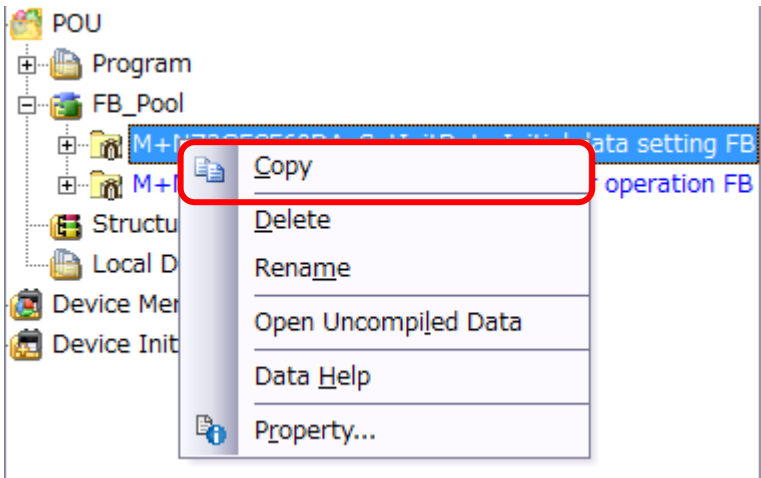
(3) M_F_RWr2 Set remote output (RWr).

| Item | Description |
|------------|--|
| Class | Select "VAR_GLOBAL". |
| Label Name | Enter "M_F_RWr2". |
| Data Type | Select "Word[Signed]". |
| Device | Enter the refresh device set for the refresh parameter with a "Z7" prefix. |

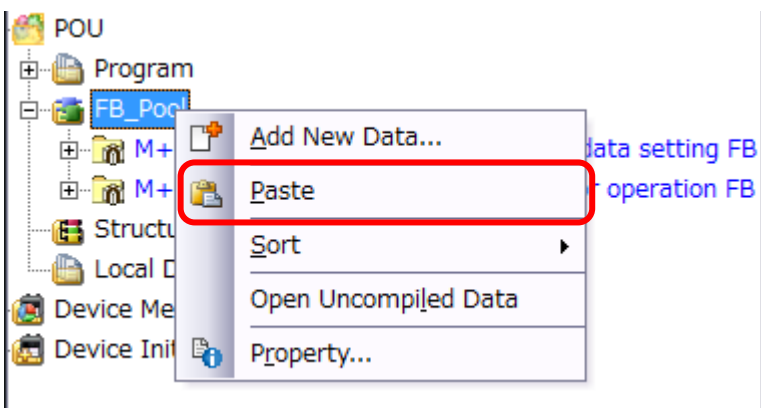
| | Class | Label Name | Data Type | Constant | Device | Comment |
|---|------------|------------|--------------|----------|----------|--------------------|
| 1 | VAR_GLOBAL | M_F_RX | Bit | ... | M1 024Z9 | RX refresh device |
| 2 | VAR_GLOBAL | M_F_RY | Bit | ... | M2048Z8 | RY refresh device |
| 3 | VAR_GLOBAL | M_F_RWr | Word[Signed] | ... | W1 000Z7 | RWr refresh device |
| 4 | VAR_GLOBAL | M_F_RX2 | Bit | ... | M1 056Z9 | RX refresh device |
| 5 | VAR_GLOBAL | M_F_RY2 | Bit | ... | M2080Z8 | RY refresh device |
| 6 | VAR_GLOBAL | M_F_RWr2 | Word[Signed] | ... | W1 018Z7 | RWr refresh device |
| 7 | | | | ... | | |
| 8 | | | | ... | | |

Appendix 1.3. Copying MELSOFT Library to Create an FB for the Second module

(1) Select an FB necessary for the second module from the Project tab of the Navigation window. Execute the Copy command.



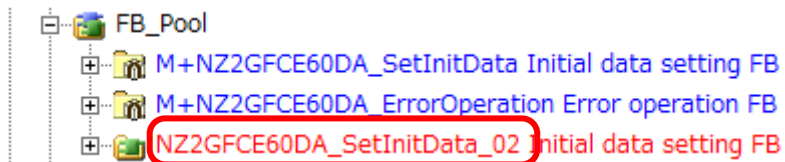
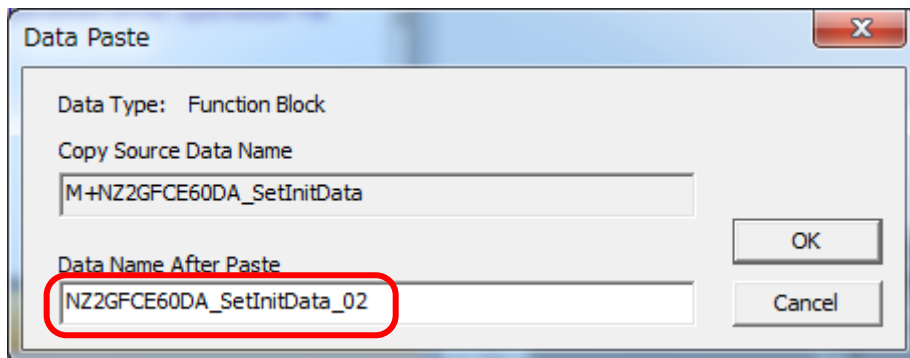
(2) Paste the copied FB to "FB_Pool" on the Project tab of the Navigation window.



(3) After selecting the paste command, a window appears to enter an FB name. Enter an FB name after paste.

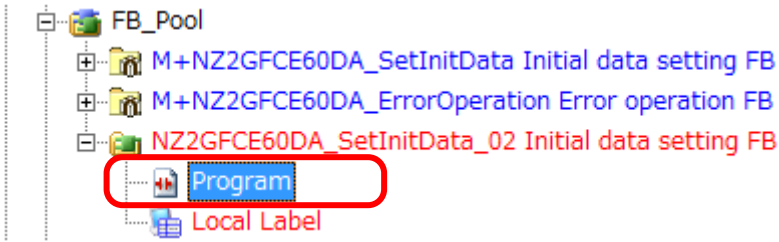
(Example: NZ2GFCE60DA_SetInitData_02)

[Note] The character string "+" of M+... cannot be entered.

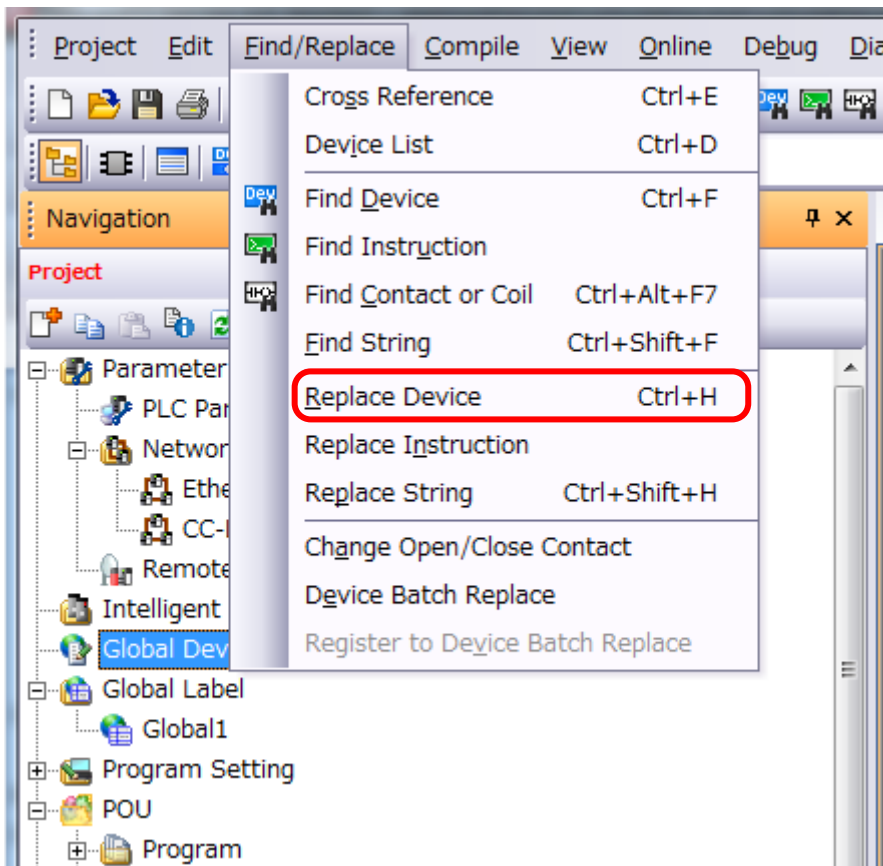


Appendix 1.4. Replacing Devices to Create the FB for the Second Module

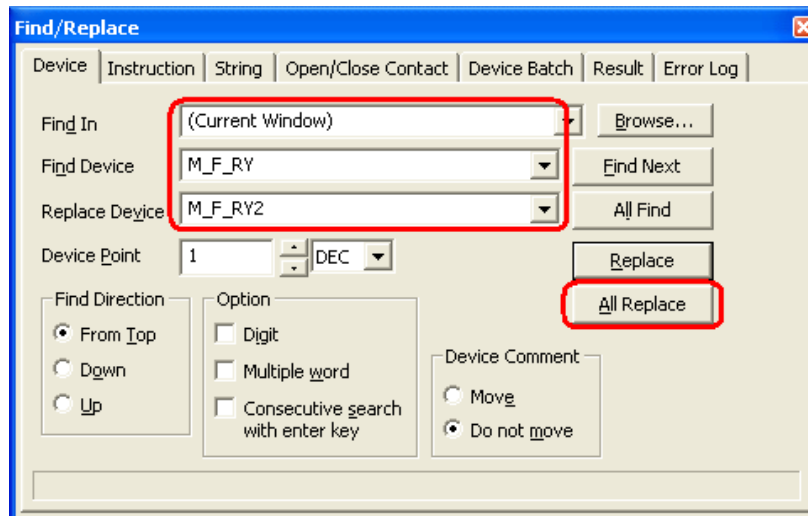
(1) Open "Program" of the added FB.



(2) Select "Find/Replace" menu and then select "Replace Device". "Find/Replace" window appears.



- (3) Select "Current Window" from Find In, "M_F_RY" from Find Device, and "M_F_RY2" from Replace Device. Then replace all devices. In the same way, replace "M_F_RX" and "M_F_RWr".



By performing the steps above, the CC-Link IE field master/local FB can be used for the second module.

[Point]

- (1) To use multiple FBs for the second CC-Link IE field master/local module, repeat the steps in Appendix 1. When Using the FB for 2 or More Master/Local Modules.
- (2) To use an FB for third or subsequent CC-Link IE field master/local modules, make sure that the preset "Global label name", "Data Name After Paste" that was set when pasting FB data and "Replace Device" that was set when replacing devices are not duplicated for the first and second modules.

[Note]

If MELSOFT Library is upgraded, MELSOFT Library FBs can be upgraded by importing them again. However, the FBs that were created by following these procedures for the second and subsequent modules are not upgraded even if the FBs are imported again.

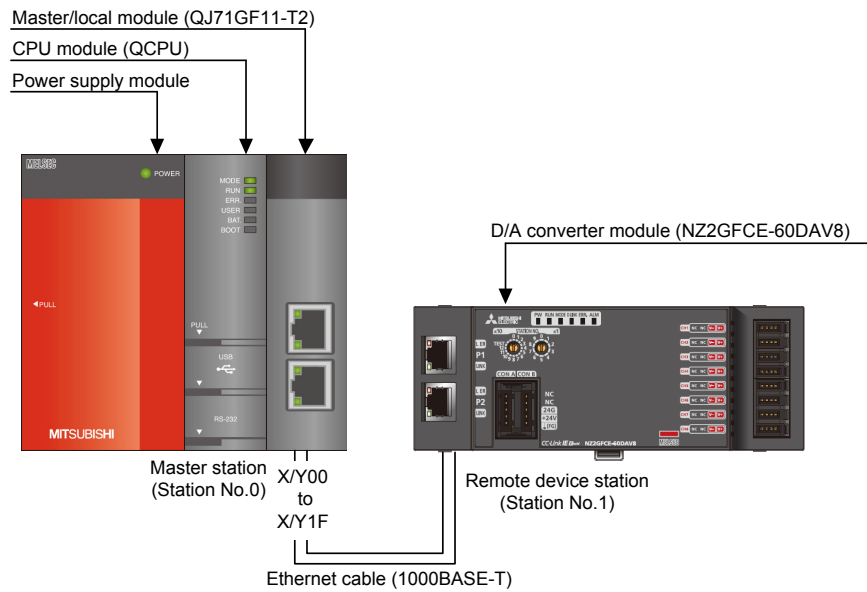
Therefore, to upgrade FBs that were created by following these procedures, after upgrading MELSOFT Library, follow these procedures again.

Appendix 2. FB Library Application Examples

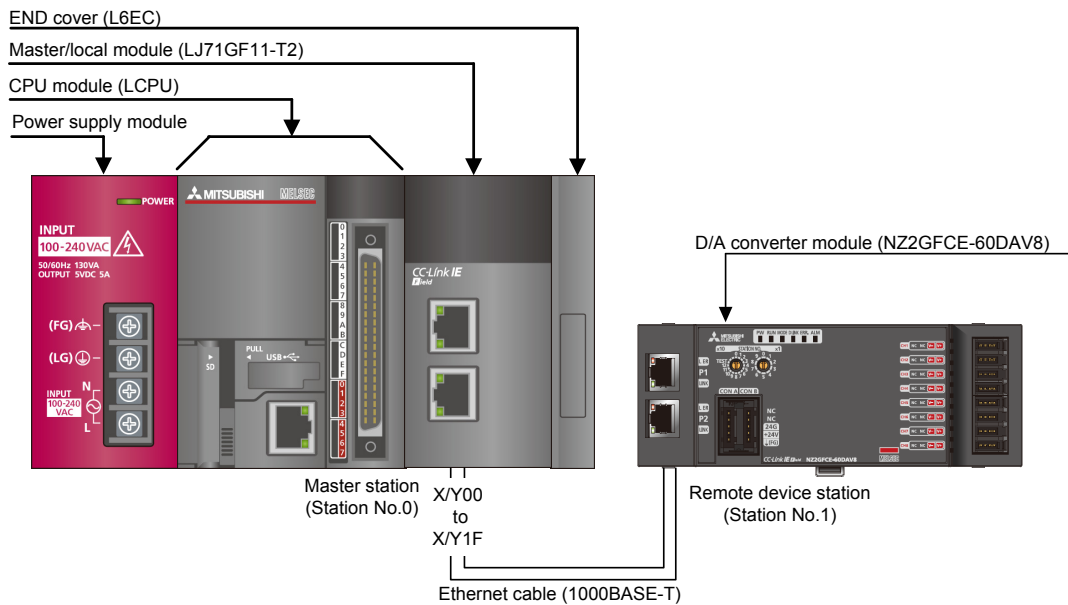
CC-Link IE Field Network digital-analog converter module FB application examples are as follows.

1) System configuration

(1) Q-series system configuration



(2) L-series system configuration

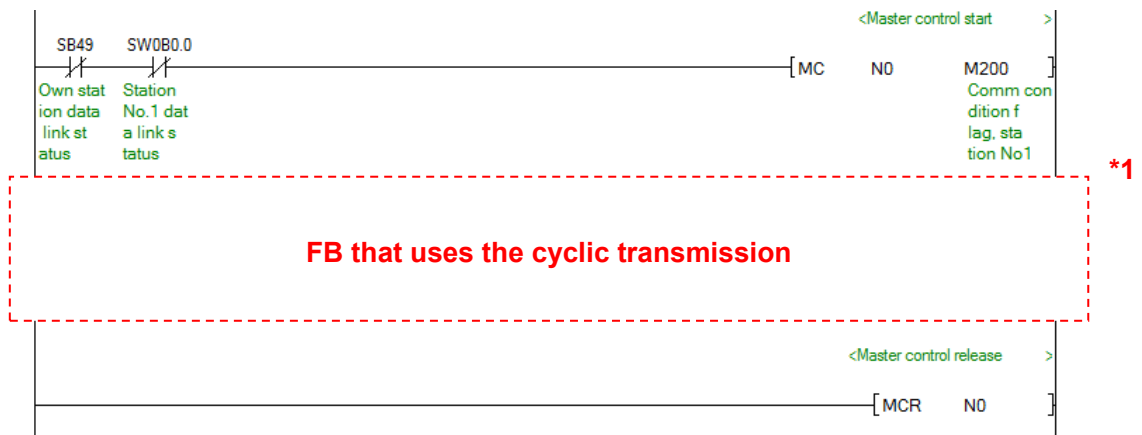


Reminder

- Every input must be provided with a value for proper FB operation.
If not set, the values will be unspecified.
- Abbreviations may be used in the label comments due to the limitation on the number of the characters to display in GX Works2.

Interlock program

* The following is an example of an interlock program.



*1 All the FBs in this manual use the cyclic transmission.

2) List of devices

a) External input (commands)

| Device | FB name | Application (ON details) |
|--------|------------------------------|------------------------------|
| M0 | M+NZ2GFCE60DA_SetInitData | Initial data setting request |
| M10 | M+NZ2GFCE60DA_ErrorOperation | Error operation request |
| M11 | | Error clear request |
| M12 | | Alert output clear request |

b) External output (checks)

| Device | FB name | Application (ON details) |
|--------|------------------------------|----------------------------------|
| M1 | M+NZ2GFCE60DA_SetInitData | Initial data setting FB ready |
| M2 | | Initial data setting FB comp. |
| F0 | | Initial data setting FB error |
| D0 | | Initial data setting FB err code |
| M13 | M+NZ2GFCE60DA_ErrorOperation | Error operation FB ready |
| M14 | | Error operation FB completed |
| M15 | | Module error detection |
| D10 | | Module error code |
| M16 | | Module warning detection |
| D11 | | Module warning code |
| F5 | | Error operation FB error |
| D12 | | Error operation FB error code |

3) Global label setting

a) Common setting

| Class | Label name | Data type | Device |
|------------|------------|---------------|---------|
| VAR_GLOBAL | M_F_RX | Bit | M1024Z9 |
| VAR_GLOBAL | M_F_RY | Bit | M2048Z8 |
| VAR_GLOBAL | M_F_RWr | Word [signed] | W1000Z7 |

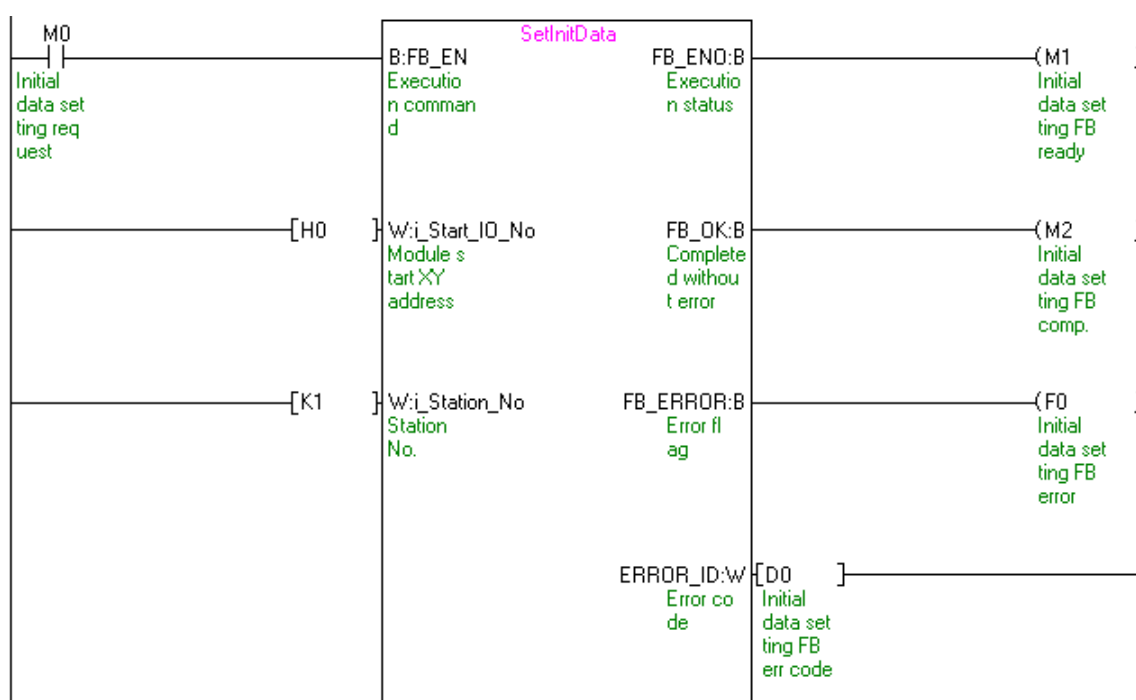
4) Programs

M+NZ2GFCE60DA_SetInitData (Initial data setting)

The following shows the example program with the conditions described in the table below.

| Label name | Setting value | Description |
|---------------|---------------|---|
| i_Start_IO_No | H0 | Set the starting XY address where the CC-Link IE Field Network master/local module is mounted or connected to 0H. |
| i_Station_No | K1 | Set the target station number to 1. |

By turning ON M0, the operating condition of the module is set.



M+NZ2GFCE60DA_ErrorOperation (Error operation)

The following shows the example program with the conditions described in the table below.

| Label name | Setting value | Description |
|-----------------|---------------|---|
| i_Start_IO_No | H0 | Set the starting XY address where the CC-Link IE Field Network master/local module is mounted or connected to 0H. |
| i_Station_No | K1 | Set the target station number to 1. |
| i_ErrorReset | ON/OFF | Turn ON for the error clear. |
| i_AlertOutClear | ON/OFF | Turn ON for the alert output clear. |

By turning ON M10, occurrence of error and warning is monitored.

By turning ON M11 after turning ON M10, the error is cleared. By turning ON M12, the alert output is cleared.

