

[Issue No.] HIME-T-P-0171A

[Title] Precautions for connecting MELSEC iQ-F Series FX5U CPU module and FX3U-4AD/
FX3U-4DA

[Date of Issue] August 2016

[Relevant Models] FX5U/FX5UC, FX5-CNV-BUS, and FX5-CNV-BUSC

Thank you for your support of the Mitsubishi programmable controllers MELSEC iQ-F Series and MELSEC-F Series.

Precautions for connecting the bus conversion module (FX5-CNV-BUS or FX5-CNV-BUSC) to the iQ-F Series, and using FX3U-4AD/FX3U-4DA are given below.

Please refer to this document and the related manuals when using this product. The latest manual is downloadable from our website.

Note

When FX3U-4AD/FX3U-4DA is connected to FX5U/FX5UC, some functions of FX3U-4AD/FX3U-4DA are not supported. Details of the functions that are not supported are as follows.

1. FX3U-4AD type analog input block

■ Convenient function setting (BFM#22)

- Do not use the peak value automatic transfer function (BFM#22 b4) and status automatic transfer function (BFM#22 b5 to b8) which are included in the convenient function.

Each status data should be read by the sequence program.

→Refer to the “FX3S/FX3G/FX3GC/FX3U/FX3UC Series User’s Manual - Analog Control Edition” for the convenient functions.

2. FX3U-4DA type analog output block

■ Data table transfer command (BFM#99)

- Do not use the data table transfer command.

The data table should be set by the sequence program.

→Refer to the “FX3S/FX3G/FX3GC/FX3U/FX3UC Series User’s Manual - Analog Control Edition” for the data table transfer command.

■ Status automatic transfer function (BFM#60)

- Do not use the status automatic transfer function.

Each status data should be read by the sequence program.

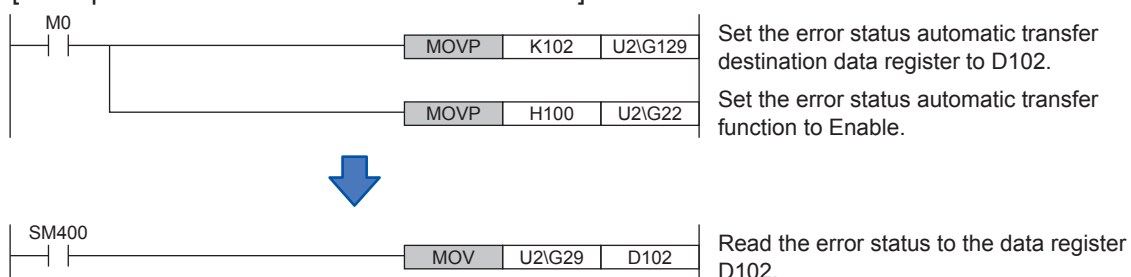
→Refer to the “FX3S/FX3G/FX3GC/FX3U/FX3UC Series User’s Manual - Analog Control Edition” for the status automatic transfer function.

3. Program example

Refer to the following program example, and create the appropriate program.

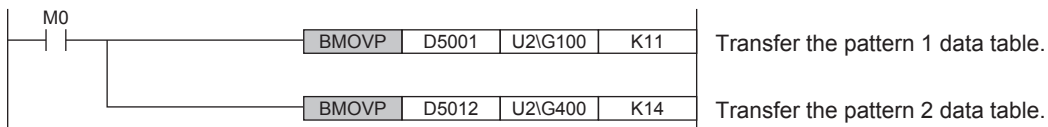
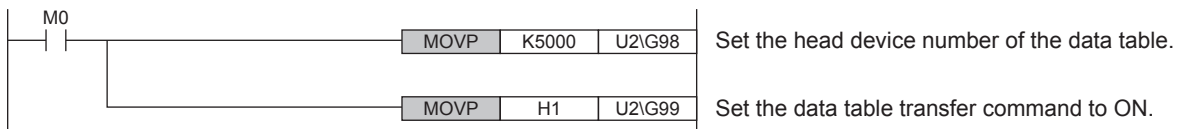
- When replacing the error status automatic transfer function with ladder program in FX3U-4AD

[Example: To transfer the error status to D102]

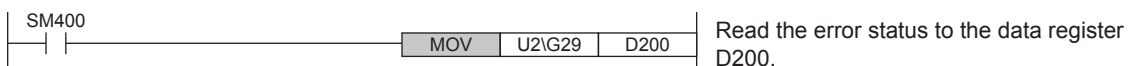
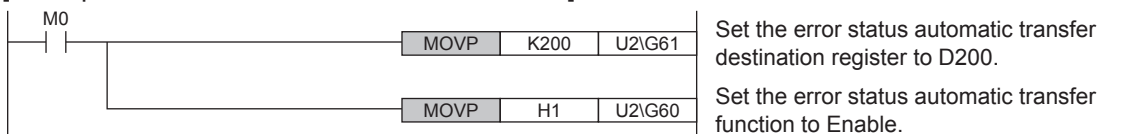


- When replacing the data table transfer with ladder program in FX3U-4DA
[Example: To transfer two patterns of data table from D5000]

Data register	Set value	Description	
D5000	K2	Number of patterns	2 patterns
D5001	K3	Number of points in pattern 1	3 points
D5002	K0	Setting of condition after output at final point in pattern 1	Holding of value output at final point
D5003	K3000	Point 1	Data to be output at point 1 in pattern 1
D5004	K18		Output update time at point 1 in pattern 1
D5005	H0021		Output update time unit at point 1 in pattern 1 Point-to-point interpolation method
D5006	K8000	Point 2	Data to be output at point 2 in pattern 1
D5007	K26		Output update time at point 2 in pattern 1
D5008	H0011		Output update time unit at point 2 in pattern 1 Point-to-point interpolation method
D5009	K5000	Point 3	Data to be output at point 3 in pattern 1
D5010	K5		Output update time at point 3 in pattern 1
D5011	H0011		Output update time unit at point 3 in pattern 1 Point-to-point interpolation method
D5012	K4	Number of points in pattern 2	4 points
D5013	K1	Setting of condition after output at final point in pattern 2	Output of offset value
D5014	K2000	Point 1	Data to be output at point 1 in pattern 2
D5015	K6		Output update time at point 1 in pattern 2
D5016	H0022		Output update time unit at point 1 in pattern 2 Point-to-point interpolation method
D5017	K10000	Point 2	Data to be output at point 2 in pattern 2
D5018	K15		Output update time at point 2 in pattern 2
D5019	H0002		Output update time unit at point 2 in pattern 2 Point-to-point interpolation method
D5020	K500	Point 3	Data to be output at point 3 in pattern 2
D5021	K45		Output update time at point 3 in pattern 2
D5022	H0021		Output update time unit at point 3 in pattern 2 Point-to-point interpolation method
D5023	K4000	Point 4	Data to be output at point 4 in pattern 2
D5024	K9		Output update time at point 4 in pattern 2
D5025	H0012		Output update time unit at point 4 in pattern 2 Point-to-point interpolation method



- When replacing the error status automatic transfer function with ladder program in FX3U-4DA
[Example: To transfer the error status to D200]



Revised History

Revision	Date	Description
A	August 2016	First Edition

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