# MPE720 Ver.7.86 version upgrade information

## ${\bf 1.}\, Function\, addition/improvement\, items$

### 1.1 Ver.7.86 version upgrade information

The following are the items to add or improve MPE720 Ver.7.85  $\rightarrow$  Ver.7.86 functions.

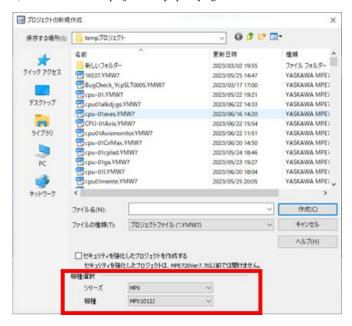
No.	Function items	Classification
1	AMPX series-controller MPX1012J was added.	New Function
2	The menu bar configuration has been changed.	New Function
3	The multi-scan function is supported.  New Function	
4	Enabled IO offset-setting for EtherNet/IP modules in MPX controllers.  New Function	
5	Fixed a bug that prevented FTP configuration on CPU-203 controllers.  Improving	
6	Fixed a bug that prevented the "Display all registers" of the G register from being displayed in the comment list on a specific model.	Improving
7	Fixed a malfunction in English and Chinese (simplified characters) that caused the error message to be lettered when creating new table data.	Improving
8	Fixed a bug where character string data was garbled when importing table data.  Improving	
9	Fixed a problem that caused incorrect position monitor values in $\Sigma$ -XS.	Improving
10	Fixed a problem in YRM-X controllers where the selection of the replacement target for projects is up to 32 axes.	Improving

#### 2. Description

#### No. 1 MPX series-controller MPX1012J was added.

Added MPX1012J as a MPX series-controller.

1) You can create a project file by specifying the series name "MPX" and model "MPX1012J".



2) It can be engineered by connecting to a MPX1012J.

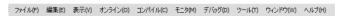
[Response Versions]

○Controller

Controller	Supported firmware versions
MPX	2.00

#### No. 2 Menu-bar configuration has been changed.

1)"Monitor" and "Tool" have been added to the menu bar items.



2)"Test operation" was added to "Online" in the menu bar item. 'X1012JEco [MPX1012J]



3)"Navigation" was added to "Display" of the menu bar item.



### No. 3 Multi-scan function is supported.

The following functions are available for multi-scan compatible models.

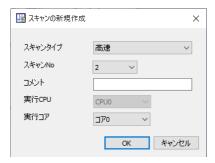
[Multi-scan compatible model]

Series	Controller
MPX	MPX1012J

1)The navigation window was added.



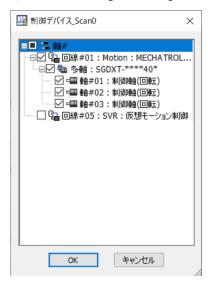
2)Scans can be newly created and deleted.



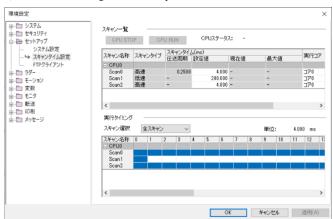
3)Register assignment can be set for scanning.



4)Control device settings for scanning are available.



5) The scan time setting screen is compatible with the multi-scan function.



6) With a newly added scan, you can create P drawings as ladder drawings.



### No.4 Enabled IO offset setting of the adapter for the built-in functional module EtherNet/IP of MPX controller.

In EhterNet/IP of functional modules with built-in controllers, a function to set conversion rules to adjust byte-by-word data in EtherNet/IP communication packet data was added.

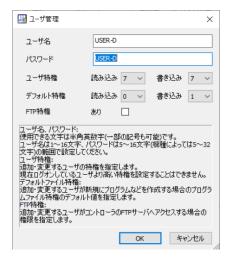


#### [Compatible controller]

Controller	Supported firmware versions
MPX::MPX1012J	2.00

### No.5 Fixed a bug that prevented FTP setting in the user control window in CPU-203 project.

1)You can set FTP privilege on the user control window of the target controllers.



2)On the target controllers, the checking process was added so that the number of users with FTP privilege is 5.

3)Fixed a bug that could be registered when a number, ".", or "-" was used as the start character of the user name in the target controller.

#### [Compatible controller]

#### ○Controller

Controller	Supported firmware versions
CPU-203	1.50 Following
CPU-203F	1.50 Following
NSC-833	1.50 Following
NSC-834	1.62 Following

#### No.6 Fixed a bug that prevented YRM-X controllers from displaying comment lists properly.

For YRM-X controllers, an error message "Not enough memory" was displayed when "Display all registers" of G register is selected in the comment list. This has been corrected.

#### [Compatible controller]

#### OController

Controller	Supported firmware versions
YRM-X	It does not depend on the controller version.

### No. 7 improved error messages when compiling tables in English and Chinese environments.

In the English and Chinese (simplified type) environment, there was a problem in which the error message when data was stored without being input when the table data was newly created became corrugated. This was corrected.

#### No.8 Improved the bug where character string data is garbled when importing table data.

In the import of table data, there was a bug where character string data is garbled. This has been corrected.

#### No.9 Improved the problem of incorrect position monitor when $\Sigma$ -XS is assigned.

When the  $\Sigma$ -XS was assigned, there was a problem in which the position monitor reading was displayed as "-", so we corrected this.

#### No.10 Improved the problem that the max. number of axes for in-project replacement is 32 in YRM-X controller.

In the project for YRM-X controllers, there was a problem in which the selection of the axis number when the type "AXI" S was selected was up to 32 axes when the within-project replacement was executed. Thus, we have corrected this so that up to 64 axes can be selected.



## **Appendix A:**

## **[About compile of the parallel circuit]**

In the Ladder program of MPE720 Ver7 before MPE720 Ver7.23, when the parallel circuit is used, the following phenomena may occur.

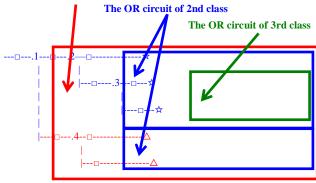
#### <Phenomena>

When the circuit containing the following pattern was created, there was a phenomenon of operating without receiving the condition that the circuit below the OR circuit of 1st class must operate essentially in response to the conditional instruction before the OR circuit of 1st class.

#### <Measures>

When a phenomenon occurs, please carry out re-compile about the Ladder program in MPE720 Ver7 after MPE720 Ver7.24. Or please carry out again "Compile All Programs" of "Compile" menu.

#### The OR circuit of 1st class



The OR circuit of 1st class: The OR circuit branched from the bus-bar of langue.

The OR circuit of 2nd class: The OR circuit branched out of the OR circuit of 1st class.

The OR circuit of 3rd class : The OR circuit branched out of the OR circuit of 2nd class.

 $\square (Conditional\ instruction): NO\ Contact,\ NC\ Contact,\ Coil,\ instruction (==,\ !=,\ >,<),\ power\ line\ (------)\ etc.$ 

 $\bigstar(Output\ instruction): Coil, Block\ instruction(Expression, STORE, COPYW)\ etc$ 

XHowever, when all  $\Leftrightarrow$  is coil commands, a phenomenon does not occur.

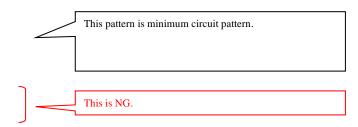
 $\Delta$ (Output instruction) : Coil, Block instruction(Expression, STORE, COPYW)etc

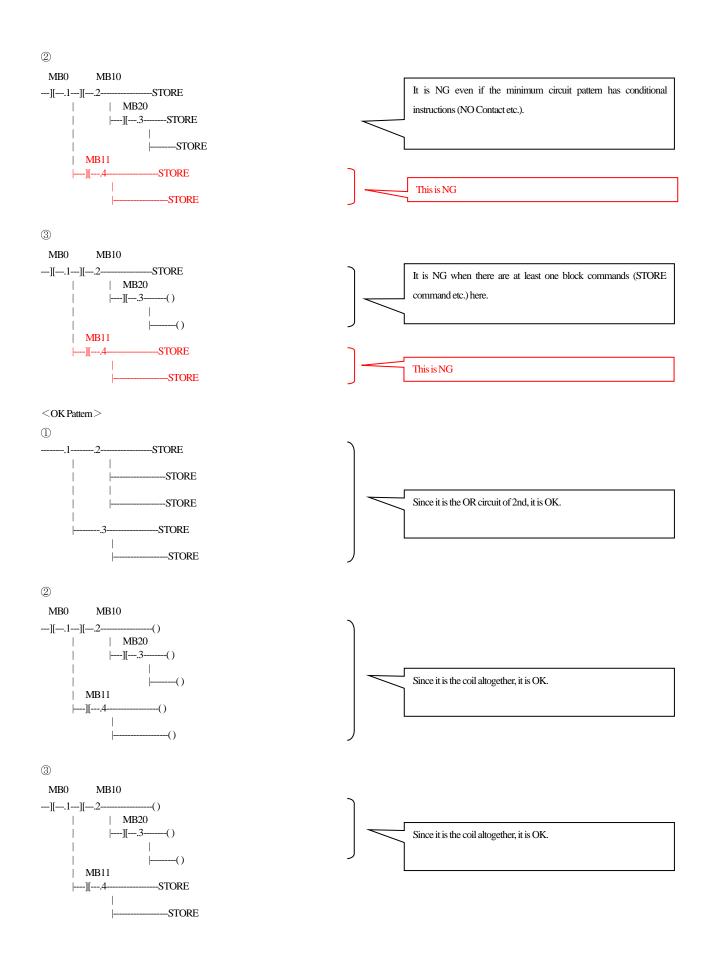
#### <Pattern>

Symbol	Instruction
][	NO Contact
STORE	STORE instruction
()	Coil

### < NG Pattern >







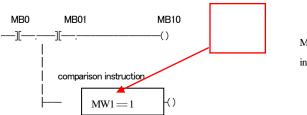
## Appendix B:

## [About compile with a comparison instruction in branch]

In the Ladder program of MPE720 Ver7 before MPE720 Ver7.63, when a comparison instruction is used in branch, the following phenomena may occur.

#### < Phenomena>

When the circuit containing the following pattern was created, the value of the register set in the upper OR circuit must be reflected to the comparison instructions in the lower OR circuit in the same scan. However, there was a phenomenon that it was reflected in the next scan.



MB000010 (MW00001) is referred in the comparison instruction of the next OR circuit.

#### <Measures>

When a phenomenon occurs, please carry out re-compile about the Ladder program in MPE720 Ver7 after MPE720 Ver7.64. Or please carry out again "Compile All Programs" of "Compile" menu. Also, about these programs that include circuits with this pattern, the number of internal steps will change in Ver7.64 or later, so when cross-reference is performed in a project created in an earlier version, there is a possibility of jumping to an unintended location. In this case, please recompile too.

## Appendix C:

## **About high DPI setting**

When MPE720 Ver.7 is started on a computer that supports high DPI such as a 4K display, part of MPE720 screen may not be displayed depending on the resolution and scale settings. From MPE720 Ver.7.67, the high DPI setting of MPE720's property is set to disable. This avoids phenomena such as the screen being cut off. If you want to use the high DPI setting, please change the MPE720 Ver.7's property setting.