Upgrade Information of MPE720 Version 7.43 Lite

1. Added and Improved Functions

1.1 Version 7.43 Lite Upgrade Information

Items added and features improved from MPE720 version 7.42 Lite to version 7.43 Lite are as follows.

No.	Feature	Classification
1	Chinese language was supported.	New Function
2	Supported multiple register comment function.	New Function
3	Supported visual compare function.	New Function
4	Supported Easy Operation Wizard function.	New Function
5	Supported a base project package and a configuration definition package in the library function.	Functional Enhancement
6	The library function was improved.	Functional Enhancement
7	Supported monitor screen of maintenance monitor function.	Functional Enhancement
8	Display switch function in auto-complete list was supported.	Functional Enhancement
9	Supported the function that make auto-complete list transparent.	Functional Enhancement
10	Improved the display of auto-complete list which is at the time of register input.	Functional Enhancement
11	Improved so that Read Again can be performed during trace execution.	Functional Enhancement
12	Sampling and trigger setting screen were improved.	Improvement
13	Improved the contents of the error message when switching trace enable/disable.	Improvement
14	Improved selecting the target axis of sampling and trigger setting.	Improvement
15	Improved the switching operation of "Real time display" mode.	Improvement
16	Improved the transfer processing of remote connecting.	Improvement
17	Improved comment out processing of motion program.	Improvement
18	Improved displaying current value of Expression instruction.	Improvement
19	The Compile Programs Being Edited function was added.	Improvement
20	Lock displayed positions of registers function was added to the watch function.	Improvement
21	Improved the processing at the time of copy operation of watch function.	Improvement
22	Improved the password input display.	Improvement

1.2 Past Upgrade Information

No.	Upgrade Information	Remarks
1	MPE720 version 7.42 Lite upgrade information	version 7.41 \rightarrow version 7.42

2. Description

No. 1 Chinese language was supported.

MPE720 Ver.7 supports Chinese language. (Simplified, China)

You can select Chinese from Language page of Environment Setting.

- System	Language
Communication Setting Controller Type Slave Type Language Development environment	Display English (United States) V SystemSetting Japanese (Japan) English (United States) Chinese (Smplified, China)

When choosing Chinese in WindowsPC of Chinese OS, a language is switched over to Chinese after MPE720Ver.7 restart. When choosing Chinese in WindowsPC besides Chinese OS, there is a possibility that garble forms.

[Support Version]

Controller	Support Firmware Version
Σ-7C	It is not dependent on the version.
MP2400	It is not dependent on the version.

No. 2 Supported multiple register comment function.

"Expansion comment" of 3 (total of 4) as well as the register comment could be established now. It's possible to display/edit expansion comment same as "standard comment".

(1) 4 comments could be edited now by a comment list.

Register M Display mo All Regist	B000000 V Pro ode ter	gram		View	F Save
Register	Standard Com	Extended Co	Extended Co	Extended Comment 3	
MB000000	Servo on start	Servo on start	伺服起动	サーボオン開始	

It's possible to display/edit expansion comment by MPE720 Ver.7's setting language (Japanese, English and Chinese) besides the OS language.

When displaying a comment (example for rudder program), there is a possibility that a language besides the OS language turns into garble.

(2) Added the item from which the current comment is chosen in the page of "variable" - "general" of Environment Setting.



(3) Added the item setting which comment is transferred to the transfer/compare dialog.

(In case of both of a local register comment and global register comments, Only the comment chosen is transferred.)

Transfer Program - Write to Controller						
Target Controller : CPU-201 (Ethernet[1]	IP192.168.1.1)					
Start	0%					
Batch Reindividual						
Image: System Configuration ✓ Program ● Update local register comments. ○ Do not leave local register comments in controller. □ Register □ Global register comment Transfer option Standard Comment 1 ↓ Write the parame ↓ Standard Comment 1 ↓ Visite the parame ↓ Save to flash afte ↓ Extended Comment 3	The following files will be transferred. System Definition Scan Time Definition FTP Client definition Module Configuration Data Trace Data Logging Maintennec Monitor Setting Ladder Program (High-speed/Low-speed/Start/ Interrupt/Function) Motion Program (Main/Sub) Sequence Program (Main/Sub) Clanguage program Local Comment (D Renister / # Register / X Register / Y Options Close					

(4) Added the function that import/export four kinds of commnet together.

👪 Save As				×
← → × ↑ 📘	> USB Drive (G:) >	lite v Ö	Search lite	م
Organize 💌 N	ew folder			BE • 😗
Videos Vin10 Eng (G Local Disk (D OS (E:) USB Drive (G USB Drive (G:) ECO-Pict Itte	C:) Name	∧ No items matc	Date modif	ied Type
MPE720 Ver.7 Ver.7.44開発 File name:	7才 関∲ 			`
Save as type:	Variables/(Standard+6	Extended) Comments File(*.	txt)	Ý
A Hide Folders			Save	Cancel

[Support Version]

Controller	Support Firmware Version
Σ-7C	It is not dependent on the version.
MP2400	It is not dependent on the version.

No. 3 Supported visual compare function.

When the compare function of "transfer" was executed, and there was differences in a program, compare windows is displayed when a result of comparison was double-clicked.

(1)Compare windows which line up source program and destination program can be displayed. Different point could be indicated with the color.

* Adding and changing: light blue (default).

* Deleting: red (default).

oLadder Program Comparison Window.



OMotion Program Comparison Window.

Sou	rce			Dest	tination of co	mpare p	roject file : CPU-201	(Ver 743For	ECOCompareB.Y	MW7)
	LINE BL	OCK			LINE B	LOCK				
	1		VAR: ^		1		VAR:			^
	2		// TODO : Add the variable he		2		// TODO :	Add the	variable	ə he
	3				3					
	- 4		END_VAR;		4		END_VAR			
	5		// TODO : Add the program her		5		// TODO :	Add the	program	hei
	6				6					
	7	8	mw000 = 0;		7	8	mw000 = 0	:		
	8	1	mw001 = 0;		8	1	mw001 = 0	;		
	9	2	mw002 = 0;		9	2	mw002 = 0	;		
	10	3	mw003 = 0;		10	3	mw003 = 0	;		
	11	- 4	mw000 = 0;		11	4	mw004 = 0	;		
	12	- 5	mw001 = 0;		12	5				
	13	ó	mw002 = 0;		13	6	mw001 = 0	;		
	14	7	mw003 = 0;		14	7	mw003 - 0	;		_
	15	8	END;		15	8	mw004 = 0	;		
					16		END;			

(2)When a compare window was opened, the following operations are possible.

1. Simultaneous scrolling (F9 key) Scroll the source and the destination at the same time.

2. Maximization of the main window (F5 key)

It's possible to maximize a main window in the mainframe and see a result of comparison widely.

3. Justification (F11 key) Display the line of the other side program next to the line of the operation side program.

(3) When a compare window was opened, source program can be edited.

Destination program can't be edited.

(4) The compare difference color can be changed by Environment Setting in a page of "transfer"- "compare".



[Support Version]

Controller	Support Firmware Version
Σ-7C	It is not dependent on the version.
MP2400	It is not dependent on the version.

No. 4 Supported Easy Operation Wizard function.

Supported Easy operation wizard function to navigate device setup. The Easy operation wizard function is a function assuming to use a dedicated sample project. Assist the setup of the device by displaying the PDF included in the dedicated sample project in conjunction.

(1) The necessary work for setup is shown in the flowchart. Pages are divided for each step of work so that manuals with necessary functions and operation methods are described in each step. Function call buttons and PDF buttons may or may not exist depending on the page.

Index 1 ^{Connected} 2 Transfer 3 ^{Parameter} 4 ^{Check} 5 ^{Program} 6 ^{Comple}	ete
3 Configure the machine specifications with the Axis Setup Wizard.	
Step1 Set the parameters related to the machine.	
Axis Setup Wizard Set the parameters required when setting up the SERVOPACK. Refer to the Manual PDF for instructions.	
The parameter information for the sample project is described in the Program PDF on the right. Check this information before operating the equipment.	
Back	vext

\circ Function call button

When it select the button, it can call up the corresponding function.



\circ Manual PDF button

Display the operation manual of the function that requires operation on the corresponding page. Note) PDF can only be opened in Japanese OS.



• Program PDF button

Information on dedicated sample projects is displayed. It can be opened only when a dedicated sample project is expanded.



(2) The Easy Operation Wizard function can be started in the following way.

• Start from project file

When it open the project file, "Easy Mode Startup Launcher" is displayed. When it select "Easy Mode", the Easy Operation Wizard function will be activated.

Note 1) "Easy Mode Startup Launcher" is not displayed when creating new project file or direct connection. Note 2) When "Default mode" is selected, the operation is the same as the normal startup.

Easy Mode Startup Launcher						
Starting the Default Mode	Starting the Easy Mode					
Default Mode This option starts MPE720 Ver.7 normally. After MPE720 Ver.7 has started, the My Tool Window will be displayed. Select the functions to use with the icons.	This option starts MPE720 Ver.7 in Easy Mode. After MPE720 Ver.7 has started, the Easy Operation Wizard will be displayed. The Easy Operation Wizard allows you to navigate the series of operations, from connecting to the controller to trial operation of the program.					
Do not display this message in the future. Always start in Default Mode.						

\circ Function call icon

Easy Operation Wizard function can be started by clicking "Easy Operation Wizard" icon from the My Tool screen.



(3) When using the Easy Operation Wizard function, it need to pay attention to the following points.

1. Please use a dedicated sample project. In the case of other project files, it is not possible to open the procedure manual or program PDF.

Note 1) Refer to the page of MPE720Ver.7 Lite of YASKAWA's e-mechatronics site for the method of obtaining exclusive sample project.

Note 2) The dedicated sample project is only available in Japanese. For languages other than Japanese, we plan to respond in the future.

2. Manual PDF is only available in Japanese. If the language of MPE720Ver.7 is other than Japanese, PDF will not be displayed. Note) For languages other than Japanese, we plan to respond in the future.

[Support Version]

oController

Controller	Support Firmware Version
Σ-7C	It is not dependent on the version.
MP2400	It is not dependent on the version.

No. 5 Supported a base project package and a configuration definition package in the library function.

(1) The following 2 kinds were added to the package of the library function.

oBase project package

Create Template Library	\times
Select the type of template library to create.	
Base project package	~
This will create a project package that can be used as the base project for creating projects in which a configuration definition and other template librarie are combined.	i ~ s
OK Can	cel

When a base project package is chosen, make target project to a library so that even other ones can use as a template.

°Configuration definition package

Create Template Library	\times
Select the type of template library to create.	
Configuration definition package	~
This will create a package in which multiple axes controlled by MECHATROLINK communications are formed into units, and these units are grouped by Motion Module. When this package is combined with a base project, you can create a project that serves as the base configuration of a machine.	< >
OK Cancel	

When a configuration definition package is chosen, using module assignment information in the target project, arbitrary servo module assignment is modularized and a library is made.

(2) Base project package and configuration definition package can be selected in a library select window of a library catalog.

•Base project package

Home View Import Export Register Unregister Operation Catalog Group Display Group: All BaseAllStation Ver.00.00 Create Project Applied Packages Type Delete				\$
Library Catalog Group Data Project Base Project Configuration Definition Library Detailed information Display Group : All Ver.00.00 Ver.00.00 BaseAllStation BaseNonStation Ver.00.00 Ver.00.00 Ver.00.00 Ver.00.00	Home View Import Export Register	Unregister Operation	Refresh Create	
Charge State Detailed information Display Group : All O Uncategorized (2) BaseAllStation BaseNonStation Ver.00.00 Ver.00.00	Library Cat	alog Group	Data Project	
Create Project Applied Packages Type Delete	Library list Displey Group : All Oncategorized (2) BaseAllStation BaseN Ver:00.00 Ver	onStation :00.00	Detailed infor	mation
	Create Project	Туре		

°Configuration definition package

Home View Werververververververververververververve	elect Library						
Base Project Detailed information Display Group : All • Uncategorized (8) UncitgSVB Wcr,00.00 Wcr,00.00 Wcr,00.00 Wcr,00.00 Wcr,00.00 Uncate Project Delete 	Home View Import Export Library	Register Unregister Catalog	Operation Group	Refresh Data P	ireate roject		
Detailed information Display Group : All Uncategorized (8) MCfgSV8 MCfgSV8-01 MCfgSV8-02 Ver.00.00 Ver.00.	Base Project Co	nfiguration Definition		Library			
Uncategorized (8) MCfgSVB MCfgSVB-01 MCfgSVB-02 Ver.00.00 Ve	Library list Display Group :	All		2	Detailed in	nformation	
Create Project Applied Packages Type Delete	MCfgSVB Ver.00.00	MCfgSVB-01 Ver.00.00	MCfgSVB-02 Ver.00.00	~			
	Create Project Applied Packag	es i	Гуре	▲ ▼ Delete			

(3) Supported the function which can create a project file with doing the following operation in a library select window of a library catalog.

[Procedure]

- 1. 1 base project package is chosen and it's added to the project creating area by drag and drop.
- 2. Some configuration definition packages are chosen and it's added to the project creating area by drag and drop.
- 3. The "Create" on the home menu of the library select window is chosen.
- 4. Project creating Wizards starts, so axis information on a configuration definition is assigned to an axis of a base project.
- 5. A project file is created.

OCreate Project



OCreate Project Wizard



[Support Version]

Controller	Support Firmware Version
Σ-7C	It is not dependent on the version.
MP2400	It is not dependent on the version.

No. 6 The library function was improved.

Improved the following 3 functions in the library function.

(1) It became possible to choose display format in a registration Library from an icon and detail.

unction Program Mea Putching Program Mea Putchinge	chatro Inction Program	Name Registration date order Sort	GLAscending order	Style of view	
ase Project Configu	aration Definition	Ubrary	Detailed information		
Sistlay Group : AL			L -Ubra	v Property	
Name • () (Uncategorized () TheeuDoary MeanLibrary NewLibrary PleanLibrary ust of this Ibrary add	Version Kind of 3) 00.00 Functs View • Group • bon information,	httrary	e e		
		Icon view V Detail view	R		

(2) Library image of a chosen library is also displayed in detail definition area besides property informations.

ielect Library			0.0.0a		
Home View Function Program Me Function Program Me Functore Rese Project Configu	Chatro Mechatro Inction Program Inter Inter Inter	stration e order date order Sort	Ascending GLDescending	ander BEtonn i ander EEDetal	
Library list			Detailed inform	stion	
Name	Version Kind of Ibrary 3) 00.00 Function Packa 00.00 Program Packa 00.00 Program Packa		NewLibrary Ver.00.00	Program) Ledder Program Ledder Kind chld program count H-7 L-4 Mation Program Group Count:1 Program count group Group1:6 [Aoss] [01.01]Unknown motion module-SGDV (AC Expan:Linder1SkV) [01.02]Unknown motion module-SGDV (AC Expan:Linder1SkV) [01.01]Unknown motion module-SGDV	
List of the library add	lan internation,				Close

(3)It became possible to choose a library image from images of a system offer.

sic Information	Set the basic information for the library. When you use the library in an Japanese environment, also set the Japanese tab items.	
is	English Japanese Chinese	Library Im
gister Mapping	Date: 2017/10/10 10	
and A. Donarda	Author: yaskav Choose a library image	No Image
iort a irroperty	Version: 00.00	
	Library image file:	
	Guidance File:	[]
	Menual File:	6
	Included Files:	10
	Set the Library image file Choose from files OK Cancel	
	Use the default password	

[Support Version]

Controller	Support Firmware Version
Σ-7C	It is not dependent on the version.
MP2400	It is not dependent on the version.

No. 7 Supported monitor screen of maintenance monitor function.

After assigned the monitor function informations of servo pac to system registers, the screen can monitor the information.



Maintenance Monitor Setting	Time Unit Selection Display Method Selection Displayed Monitors Selection Displayed Axes Selection
Total operation time	Power consumption per unit time
Total operation time(serve) [100ms] Ass0101(5127946) 078916655,9594 [100ms]	Accumulated power consumption [Wh] [Seconds] Accumulated power consumption [Wh]
	[36000000007.039] [vm] [Seconds]
Utetime	Installation environment
Built in fan lifetrine (%) ▲ Axis0101(SW28014) ■ Bush current prevention circuit lifetrine [%] ■ Rush current prevention circuit lifetrine [%] ■	SERVORACX installation environment (%)
rit (1991)97. _[N]	Motor installation environment (%)

Supported visual display like a chart and an indicator as well as digital numeric display.



[Support Version]

Controller	Support Firmware Version
Σ-7C	Ver.1.00 or later.
MP2400	MP2000 series is not applicable.

No. 8 Display switch function in auto-complete list was supported.

1. "Edit" menu, "Display the Autocomplete list for variables and registers."

🔢 мре	720	Ver.7 -	Sample	e - Ver74	3ForECO	Compare	eb [CPU-	201]
: File	Edit	View	Online	Program	Compile	Debug	Window	Help
	ŝ	Undo						Ctrl+Z
ι 🕞 τ	ы	Redo						Ctrl+Y
: : →= «	፠	Cut						Ctrl+X
	Ę,	Сору						Ctrl+C
	ê	Paste						Ctrl+V
Setu Ladde		Delete						Delete
Motion	\mathbf{X}	Automa	tic Switch	to IME				
•	7	Display	the Autoc	omplete list	for variabl	es and re	gisters	Ctrl+Alt+-
		Select A	1					Ctrl+A
	ΔĤ	Find						Ctrl+F
	ĄЪ	Replace						Ctrl+H
	ίΩ)	Search i	n Project					
		Replace	in Projec	t				

2. Short-cut Key "Ctrl + Alt + -"

3. Icon of a standard tool bar

	MP	E720	Ver.7 -	Sample	e - Ver74	3ForECC	Compare
1	File	Edit	View	Online	Program	Compile	Debug
-		ටී සි	89	ل & ا	Þ 6 🔢	2 🖬	1 0 QI
	6	ण ए		<u>ү</u> 🚏	▼ 🖄	10 /0)-0- <mark>2</mark>
	→= <	$\equiv I_i$	XI	20 di		ti ș	

4. Tool bar of a Expression editor

Bxpression Editor	_	×
Version7.00 🔹 🕹 🗄 🖨 🗠 🗙		

5. Of a pop-up menu of an Expression editor, "Display the Autocomplete list for variables and registers."

Expression	Edito	pr	X
Version7.00		- X 🗟 🖨 🗠 🗠 🔚 🖥 …	
I			
		Compilation version	
	Ж	Cut	Ctrl+X
	E,	Сору	Ctrl+C
	ß	Paste	Ctrl+V
	ю	Undo	Ctrl+Z
	ы	Redo	Ctrl+Y
	=	Display the Autocomplete list for variables and registers	Ctrl+Alt+-
	~	Semicolon Automatic Input	15
		Go to	
		Press [Ctr] + [Enter] to fix.
•			4
1/1			H.

[Support Version]

°Controller

Controller	Support Firmware Version
Σ-7C	It is not dependent on the version.
MP2400	It is not dependent on the version.

No. 9 Supported the function that make auto-complete list transparent.

When a "Ctrl" key was pushed down when variable/register auto-complete list was displayed, the function makes the list transparent.

The list can be made transparent in operand input of a rudder device and expression editor.

oat the time of "Ctrl" key non-push down.



oat the time of "Ctrl" key push down.

Expression Editor	×	N	
Version7.00 🔹 👗 🖏 📾 🖼 🔚			•
if mw00000 >= 10; mw00000 = 0; iend:		<u>e</u>	
cpu		8.4	
mw100.f=rc0;2bitLowerErrorCode : SW00050	Variable:CPU.Error.32 bi	1000	Core
MM101LEFrc1 ; ate : SW00071			
mw1U2 = 2; 102 Erropay : SW00070		loce (Low)	
mw103 = 3, mw104 Erc4 ecception : SB000413			E
mw105.5=5;ailure : SB000410		B4.	
mw106.l==6;anAlarm : SB00041E		art	
mw107.=rc7;our : SW00072			
B CPU.Error.IOError : SB000419			
B CPU.Error.M3RestrictionError : SB00041D	Press [Citri] + [Enter] to fiv		
U.Error.Millisecond : SW00075	· · · · ·		
4/12			

[Support Version]

Controller	Support Firmware Version
Σ-7C	It is not dependent on the version.
MP2400	It is not dependent on the version.

No. 10 Improved the display of auto-complete list which is at the time of register input.

When a register was input in a variable/register auto-complete, added the item of 50 addresses (50 bits) of context.

Ex. 1) MB100 was input.

a. MB000100 is chosen.



b. MB00006E-MB000132 is registered with a list.



Ex. 2) MW100 was input. a. MW00100 is chosen.



b. MW00050-MW00150 is registered with a list.





No. 11 Improved so that Trace Again can be performed during trace execution.

It is able to push down a Read Again button in real time trace or XY trace execution.

It's possible to check the contents of the trace data with executing Read Again.

* When the Read Again is executed in the trace execution, a real time display mode becomes automatic off.

[Support Version]

 \circ Controller

Controller	Support Firmware Version
Σ-7C	It is not dependent on the version.
MP2400	It is not dependent on the version.

No. 12 Sampling and trigger setting screen were improved.

The "No. of Delays" value of real time trace and XY trace wasn't sometimes restored correct. So, it was improved so that the "No. of Delays" value might be restored just as it is.

[Support Version]

Controller	Support Firmware Version
Σ-7C	It is not dependent on the version.
MP2400	It is not dependent on the version.

No. 13 Improved the contents of the error message when switching trace enable/disable.

When enabling trace definition at the following condition, error message couldn't present the information which leads to its error cause. So, we improved.

[Conditions]

- * A local register of the program which doesn't exist is included in trace setting.
- * Trace definition disable state.



When enabling trace definition at the previously described conditions, it was improved that error message present the information which leads to its error cause.



[Support Version]

Controller	Support Firmware Version
Σ-7C	It is not dependent on the version.
MP2400	It is not dependent on the version.

No. 14 Improved selecting the target axis of sampling and trigger setting.

OK button was disable when no axis was selected in select target axis screen.

So, we improved so that OK button is enable when no axis was selected in select target axis screen.



[Support Version]

 \circ Controller

Controller	Support Firmware Version
Σ-7C	It is not dependent on the version.
MP2400	It is not dependent on the version.

No. 15 Improved the switching operation of "Real time display" mode.

When real time trace or XY trace was opened during trace manager screen indication, "Real time display" mode couldn't be changed.

So, we improved so that real time trace or XY trace was opened during trace manager screen indication, "Real time display" mode can be changed.

[Support Version]

Controller	Support Firmware Version
Σ-7C	It is not dependent on the version.
MP2400	It is not dependent on the version.

No. 16 Improved the transfer processing of remote connecting.

There was a phenomenon that fails in transfer when a global register comment was written in at the time of a remote connection. So, we improved the transfer processing of remote connecting.



[Support Version]

○Controller

Controller	Support Firmware Version	
Σ-7C	It is not dependent on the version.	
MP2400	It is not dependent on the version.	

No. 17 Improved comment out processing of motion program.

There was a phenomenon that the comment was not released using in a case with "Release Comment on Range" button in a motion program. So, we improved.

o"Release Comment on Range" button



•Executed compile after comment out.



•Executed compile after using "Release Comment on Range" button.

i 🔟 🕲 😚 🖳 🕻	Version 7.00
LINE BLOCK	
1 2	VAR; // TODO : Add
3	FND VAR.
5	// TODO : Add
6 7 0	mb0=0;
8 1	mb0=0;
10 11	mb0=0; mb0=0:
12	FND .
13 Z	LIND,

So, we improved that comment is released after using "Release Comment on Range" button.

•Executed compile after using "Release Comment on Range" button.

🔲 🕲 🖌 🖸	Version7.00
LINE BLOCK	
1	VAR;
2	// TODO : Add
3	END VAD.
4 5	ZAD_VAR,
6	
7 0	mb0=0;
8 1	mb0=0;
9	10.01
10 2	mbU=U;
11 3	, u=0
13	
14 4	END;
< III	

[Support Version]

 \circ Controller

Controller	Support Firmware Version	
Σ-7C	It is not dependent on the version.	
MP2400	It is not dependent on the version.	

No. 18 Improved displaying current value of Expression instruction.

(1) In case of the following condition in a Expression instruction of the rudder program, there was an error which can't confirm the current value because it's displayed "!" with the reversed numerical value.

[Conditions]

- •Online connection.
- •When expression of logical negation (!) was used.

EXPRESSION			₽
'DB000000'=!'DB00 DB000000=!DB00000	DOOO1' D1;		
1=!1			

(2) In case of the following condition, there was an error which current value was displayed outside of "()". (It should be displayed inside)

[The condition]

•Online connection.

• Using the condition with "!" in Expression instruction.

EXPRESSION	E ₽
if !('MB000000'==true) if !(MB000000==true); if O!(==true) 'MB000000'=0 MB000000=0; 0=0 iend;	

We improved (1), (2) above as follows.

Improved so that the current value can be confirmed also under the previous described conditions in a Expression instruction of the ladder program.



Improved so that the current value of the register is displayed normally also under the previous described conditions.

EXPRESSION	₽₽
if !('MB000000'==true) if !(MB000000==true); if !(0==true) 'MB000000'=0 MB000000=0; 0=0 iend;	

[Support Version]

 Controller 	
Controller	Support Firmware Version
Σ-7C	It is not dependent on the version.
MP2400	It is not dependent on the version.

No. 19 The Compile Programs Being Edited function was added.

"Compile Programs Being Edited" function was added to the menu.

"Shift + F4" was assigned as a Short-cut Key.

This function is the off-line limitation function.



[Support Version]

○Controller	
Controller	Support Firmware Version
Σ-7C	It is not dependent on the version.
MP2400	It is not dependent on the version.

No. 20 Lock displayed positions of registers function was added to the watch function.

The menu "Lock displayed positions of registers" was added to the pop-up menu of a watch screen.

When this setting was effective, the location of the variable and register can't be changed by drag and drop on the watch.



[Support Version]

 \circ Controller

Controller	Support Firmware Version	
Σ-7C	It is not dependent on the version.	
MP2400	It is not dependent on the version.	

No. 21 Improved the processing at the time of copy operation of watch function.

When drag and drop or copy and paste was executed in different watch, in the same watch, and in automatic watch, display style couldn't be inherited. So, we improved so that can be inherited the display style when drag and drop or copy and paste was executed in different watch, in the same watch, and in automatic watch.

【Support Version】 ○Controller	
Controller	Support Firmware Version
Σ-7C	It is not dependent on the version.
MP2400	It is not dependent on the version.

No. 22 Improved the password input display.

There was no information of the number and the name of the program in password input screen. So, we improved so that the number and the name of the program might be shown in password input screen.

Program Password - H01:SubProgram		
Program Password		
Program Password: The password is set in the input the password to ope The character, which can only a normal-width alphar	e specified program. It is necessary to en the program. be used for the program password is numeric character.	
	OK Cancel	

[Support Version]

Controller	Support Firmware Version
Σ-7C	It is not dependent on the version.
MP2400	It is not dependent on the version.