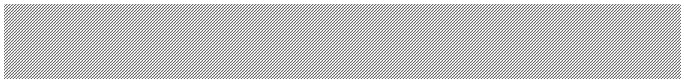
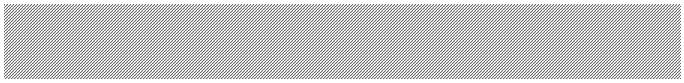
SCREEN CREATOR 5
User's Manual



Vol. 4
STANDARD PARTS CATALOG



KOMATSU

Electronic System & Component Dept.
Electronics Div.

Contents

CHAPTER 13 SPECIAL PARTS

CHAPTER 14 HOST COMMAND COMMUNICATION PARTS

SUPPLEMENT ISO7000 TEXTURE

A guide to use this manual

This Screen Creator 5 facilitates you to create screens by arranging parts such as lamps, switches, numeral displays, etc.
The Screen Creator 5 prepares a variety of standard parts. This manual describes those parts.

It is recommended to refer to the following manuals, as well when using this equipment.

Vol. 1 Screen Creator 5 Manual (Introduction)
This manual describes the basic operation methods of the Screen Creator 5.

Vol. 2 Screen Creator 5 Manual (Operation)
This manual describes details of each operation of the Screen Creator 5.

Vol. 3 Screen Creator 5 Manual (Connection to a PLC/External Devices)
This manual describes how to communicate with an PLC and a host computer and how to connect this equipment to external devices.

Vol. 4 Screen Creator 5 Manual (Standard Parts Catalog)
This manual explains functions of the standard parts supplied by Koyo.

Vol. 5 Screen Creator 5 Manual (Control Reference)
This is a reference manual for controls used for creating parts.

Vol. 6 Screen Creator 5 Manual (K-Basic Program Description)
This manual explains how to describe operation programs for creating screens, as well as necessary commands for the purpose.

Vol. 7 Screen Creator 5 Manual (Troubleshooting and List of Error Codes)
This manual describes restrictions for creating screens on the Screen Creator 5, how to process troubles, and explains error codes.

Safety Precautions

Be sure to follow the safety precautions listed below in order to use this equipment safely. Koyo cannot be held liable for any damages incurred if these safety precautions are not followed.

⚠ WARNING

- **Design your system so that there are sufficient countermeasures for personnel accidents and major equipment accidents. The system should have an external protection and safety circuit, so that even if the OIP should malfunction or even if there is a defect in the program the safety of the system is assured.**
- **Do not use the touch panel of the OIP to make switches that are related to safety or people or major damages (emergency safety switches, etc.). Be sure that the system is designed so that it can cope with any errors or malfunctions in the touch panel.**
- **Be sure that type 3 grounding is used for the protective-grounding terminal. There is a possibility of electrical shock if the unit is not grounded.**
- **If the OIP should malfunction, immediately turn off the power and leave it alone.**
- **If there is direct output to external output device such as PLCs, direct output will be driven regardless of the ladder circuit interlock. Output may be used to drive motors and the like, so avoid using direct output because it is dangerous.**

⚠ CAUTION

- **Use and store the OIP in the environment described in the specifications (regarding vibration, shock, temperature, humidity, etc.).**
- **Do not use the OIP where it is subjected to inflammable or explosive gas, or steam.**
- **Before turning on the power, be sure that the power voltage rating of the OIP and the voltage rating power supply match. Using a mistaken power supply can damage the unit.**
- **Do not disassemble or modify the OIP. Doing so can cause malfunctions and lead to other problems.**
- **The OIP touch panel is made of glass. Striking it with hard objects or pressing hard on it may break the glass.**
- **Do not push down on the OIP touch panel with mechanical pencils, screwdrivers, or other sharp objects. Doing so can damage the touch panel or cause malfunctions.**

Notations Used In This Manual

This manual uses the following symbol marks for you to use this system comfortably.

WARNING	Describes a peril that may cause operator's death or serious injury in neglecting the WARNING item(s).
Caution	Describes a peril that may cause bodily injury or serious device damage in neglecting the CAUTION items(s).
	Describes general note(s) in use.
Note)	Explanations and supplements.

Glossaries used in this manual are as follows.

OIP	Stands for Advanced Intelligent Panel.
PLC	Stands for programmable controller. It is also called a sequence controller.
Link unit	A link unit is a communication equipment which connects this equipment and the PLC. The nomenclature of the communication equipment is different from each manufacture and the equipment is called a link unit in general.
Device	A device is such equipment that an input/output relay, internal relay, timer, counter, or resister in the PLC.

Notice

We have used our best efforts in preparing this manual. We make no warranties with respect to the accuracy, or completeness of the contents of this manual and purpose. We shall not be liable any loss of profit or any other commercial damages, applying this manual directly and indirectly.

1) All rights reserved. No part of this book may be reproduced in any form or by any means, without permission in writing from Koyo Ltd.

2) Contents of this manual shall be subject to change without notice.

3) While every precaution has been taken in the preparation of this manual, if the reader notice any errors or has any advice on the contents of this manual, please contact our customer support in Sales Division of Koyo Ltd.

4) We shall have no liability to any loss or damage caused or alleged to be caused directly or indirectly by the statements contained in this manual or by the computer software and hardware products described in it.

5) Koyo Ltd. may have patents or pending patent applications, copyrights, or other intellectual property rights covering subject matter in this manual. The furnishing of this manual does not give you any license to these patents or other intellectual property rights. And we do not have any responsibility on troubles involved in the patents and other intellectual rights caused by the use of this manual.

6) Contact us at the following place concerning other unclear points in this manual.

Overseas Division

Koyo Electronics Industries Co,Ltd.

Address: 1-171 Tenjin-cho,Kodaira, Tokyo 187 Japan
Telephone: 81-42-341-7711
Facsimile : 81-42-342-6871

Version Up

Komatsu Ltd. has upgraded Screen Creator 5 for adding new functions, operationability and so forth. Below will be introduced the updated functions.

1. Version 2.10

- Supporting middle size systems (GC53) of GC5X Series
- Adding the uploading editing function

  To make this function effective, attach all screen data and K-Basic programs used in the project and download them to the panel. Then download the uploaded entities from the panel and restore them. Then you can edit the data and programs. Note that the data with the project attached increase their size.

- The following PLCs have been added.

Koyo	Koyo KOSTAC SA/SR
Omron	SYSMAC α
Fuji Dennki	FLEX-PC NJ-T/NS-T
Fuji Dennki	Computer-link protocol
Fuji Dennki	Loader command protocol
Toyota Koki	PC1
Toyota Koki	PC3
Matsushita Electric Industry	Panadac 7000

- Standard components, centered on the parts used for middle size systems (GC53) in the GC5X Series have drastically been added.

1. USING STANDARD PARTS

The Screen Creator 5 prepares a variety of standard parts including lamps, switches, etc.
Please read this manual thoroughly before using any of those standard parts.

1-1. Classification of Parts

		Pareto chart	9-6

1. Using Standard Parts

Before searching any part of the Screen Creator 5 in this manual, make the "Screen Creator 5" parts selection menu match with the parts categories in this manual.

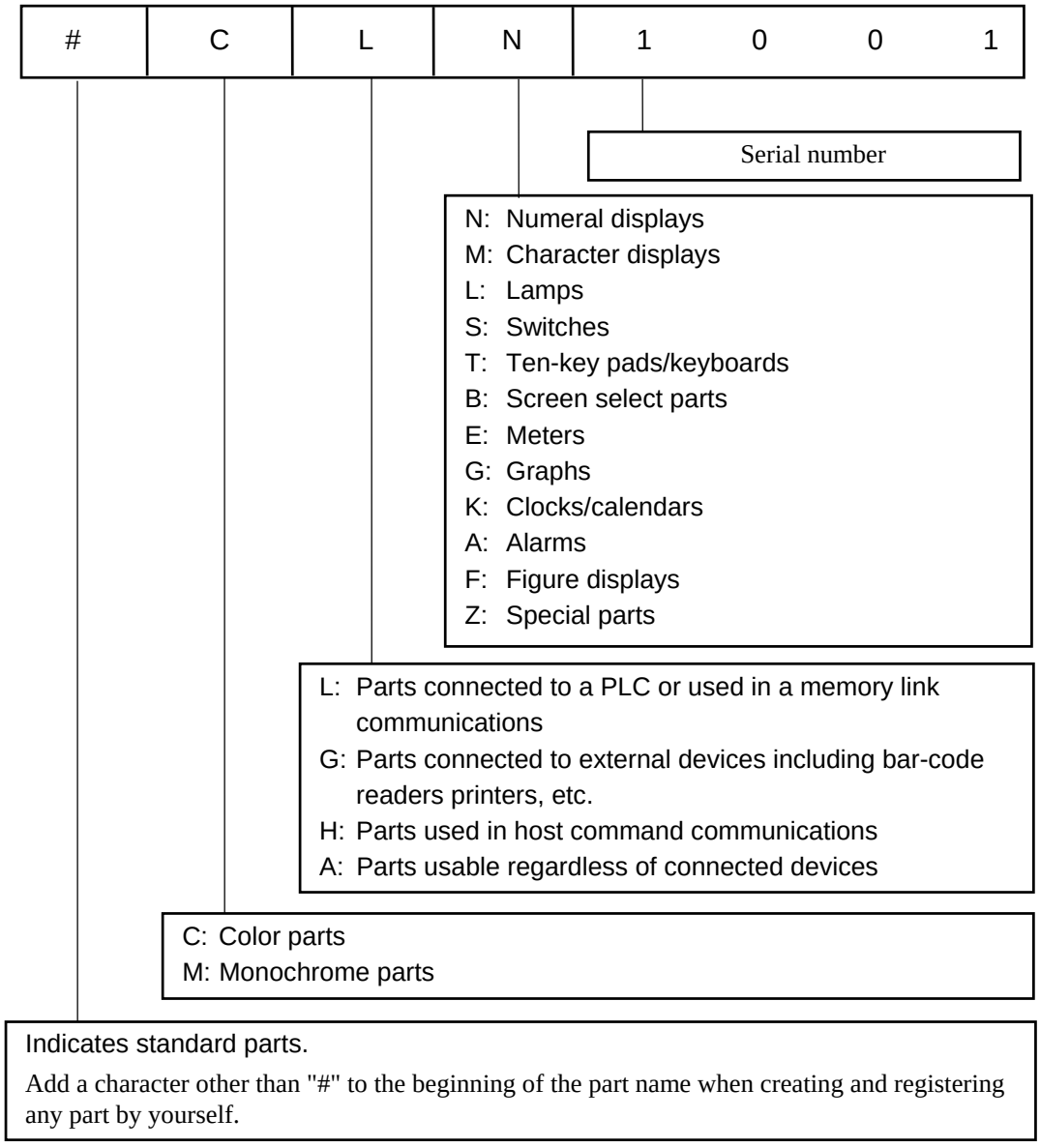
Example) "Screen Creator 5" parts selection menu

Example) A parts category in this manual

Switches Toggle/selector	Toggle Switch	D: About 690 bytes S: About 260 bytes

1-2. Names of Parts

The standard parts of the "Screen Creator 5" are named on the following rules.



1-3. Files and Management of Parts

The standard parts of the "Screen Creator 5" are stored in the following file.
The file name is "PART NAME.APT".

[For color parts] "¥LIB¥APT" in the folder in which the "Screen Creator 5" is installed.
[For monochrome parts] "¥LIB¥APTM" in the folder in which the "Screen Creator 5" is installed.

A parts management file has been added in and after "Screen Creator 5".

The file stores information indicating the parts groups to which user-created parts are belonging.
This management information is stored in the following file.

[For color parts] "¥LIB¥BCLIB.PLB" in the folder in which the "Screen Creator 5" is installed.
[For monochrome parts] "¥LIB¥BMLIB.PLB" in the folder in which the "Screen Creator 5" is installed.

[Note]
Do not change the file name nor edit the contents in the file unnecessarily.

1-4. Operation Parameters of Parts

■ Operation parameters must be set for almost all parts when those parts are arranged on a screen. Read this manual carefully to specify those parameters.

[Note]
As shown above, one part may have two or more operation parameter windows ("bar graph" and "break line graph") in some cases. Be careful not to forget entry of necessary parameters.

■ Operation parameters are classified into "control" parameters and "program (K-Basic)" parameters. A "program" parameter is referred to as a "template" and the portion enclosed by [ ] in a program is assumed as the "template".

[Note]
If nothing is described in a "template", it is regarded that the program includes no "template" line.

■ A "filter" may exist as a control parameter. This parameter is specified to display a corrected value of the connected device.
Assume the value of a connected device as "X" to describe each expression using "+, -. *, /, and ( )".

Example) "filter": (X+50)/2

■ The mark placed at the start of each "operation parameter" in this manual has the following meaning.

◎	Indicates that the parameter is mandatory, although it has no initial value. If not specified, an error occurs when in data creation.
O	Indicates that the parameter value should be changed as needed. (The default value may also be used as is, of course.)
△	Indicates that the parameter is omissible. The object part can work normally even when the parameter is omitted.

Example) "Bar graph" operation parameters

Parameter	Initial Value	Description
[Bar graph setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [device name]		Enter the name of the first device for which a graph is displayed.
○ [data type]	BIN	Enter the data type according to the connected device type.
○ [sampling time]	0	Fixed to "0".
△ [filter]		Set this parameter when displaying a corrected value of the connected device.

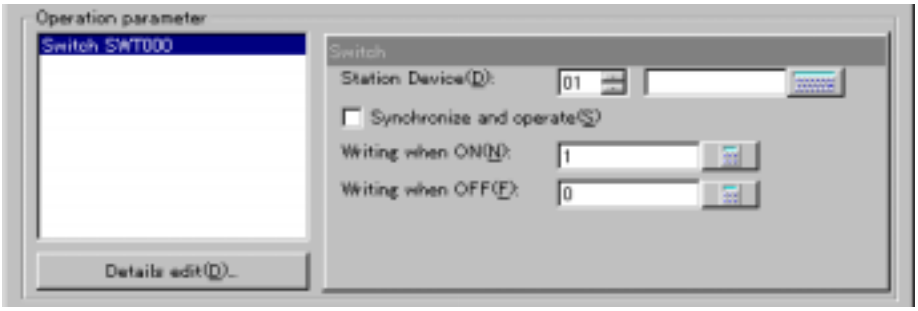
1-5. Changing Parts

■ The texture and color of each part can be changed easily by specifying "background texture" and "background color" in "Property of arrangement parts".

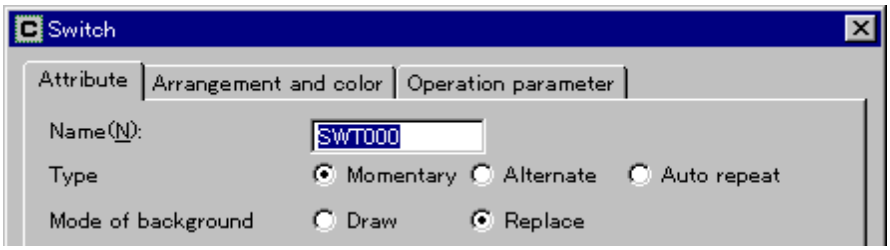
[Note]
Read this manual carefully when changing lamp parts and switch parts.

■ A simple control change of any part can be made with "Ditails edit" of "Operation Parameters". As such an example, the type of a switch part is changed from "momentary" to "alternate" here.

Example) 1. Select "mark switch" from "Switches" of the parts categories and arrange the mark switch on the screen.
2. Click "Ditails edit" of the switches from the "Property of arrangement parts".



3. Change the "TYPE" in the switch setup window to "Alternate".



4. Click "OK" in the switch setup window.

[Note]
Control setting cannot be changed for parts whose control is displayed with K-Basic.

1-6. Memories of Parts

■ This manual describes how much memory is used for each part.
The panel of this equipment has "data memory" and "system memory". This manual describes each memory used for each part arranged on a screen.

"D: About ??? bytes": Data memory space used per part.
"S: About ??? bytes": System memory space used per part.

Example) Memories used by an "LED" of "lamps".

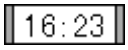
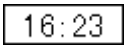
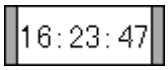
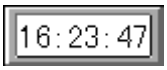
Lamps LED	**LED**	D: About 160 bytes S: About 110 bytes

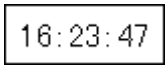
Data memory: Used by about 160 bytes.
System memory: Used by about 110 bytes.

[Notes]
- The memory consumption per part should be taken only as standard for reference.
- The memory consumption per part is calculated according to the initial value of the part in its "operation parameters".
- The memory consumption changes a little according to the PLC type and connected device.

10. CLOCKS AND CALENDARS

Clocks/calendars Clock	**Clock**	D: About 160 bytes S: About 140 bytes

#CAK1001	#CAK1002	#CAK1003	#CAK1004
#MAK1001	#MAK1002	#MAK1003	#MAK1004
			

#CAK1005	#CAK1101	#CAK1102	
#MAK1005	#MAK1101	#MAK1102	
			

■ Function
- This part displays the time.
- This part should preferably be arranged on a global screen. If this part is arranged by 16 or more on a local screen, it is regarded as an error.

Clocks/calendars Calendar	**Calendar**	D: About 500 bytes S: About 220 bytes

#CAK2001	#CAK2002	#CAK2003
#MAK2001	#MAK2002	#MAK2003
		

#CAK2004	#CAK2005	
#MAK2004	#MAK2005	
		

■ Function
- This part displays date items (year, month, and day (the day of the week)).
- A “calendar” part can correspond to years after 2000 and leap years.
  (The KDP5000 series is valid from “January 1, 1997 to December 31, 2096.)
- This part should preferably be arranged on a global screen. If this part is arranged by 16 or more on a local screen, it is regarded as an error.

Clocks/calendars Clock/calendar setup	**Clock/calendar setup**	D: About 5300 bytes S: About 1700 bytes

#CAK3001 #MAK3001	#CLK3002 #MLK3002
	(No texture is provided.)

■ Function

- This part displays date items and the time.

[#CAK3001/#MAK3001]

- Press the object item of the date. It can be set.

[Key operation]

[ENT]: Used to write the set “date” in the panel.
[ESC]: Used to stop setting. (When the part is a movable one, it is closed.)
[CLR]: Used to clear the currently set values.
[SKIP]: Used to move the cursor when the “date items” are to be set continuously.

[#CLK3002/#MLK3002]

- This part must be opened when arranged on a first screen.

■ Operation parameters

[#CAK3001/#MAK3001]

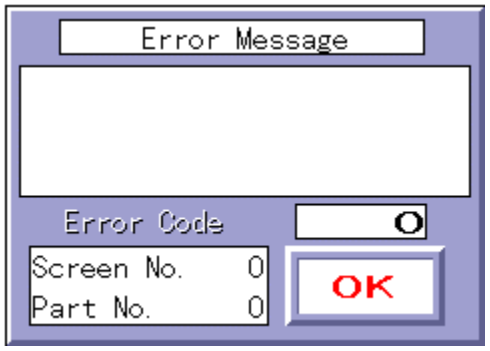
Operation Parameter	Initial Value	Description
[Template setup]		
△ [screen name having calendar]		Specify this parameter to notify the “calendar” part of the set “date items”.
△ [calendar part name]		

[#CLK3002/#MLK3002]

Operation Parameter	Initial Value	Description
[Template setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [first device name]		Enter the name of the device which a date and time is to be read.
△ [screen name having calendar]		Specify this parameter to notify the “calendar” part of the set “date items”.
△ [calendar part name]		

11. ALARMS

Alarms Error display (ERRPTS)	**Error display (ERRPTS)**	D: About 3100 bytes S: About 590 bytes

#CAA1002
#MAA1002
Errors display（ERRPTS）


■ Function

- This part displays errors generated while the panel is operating.
- This part should be named as “ERRPTS” and closed when arranged on a global screen.
- This part is arranged as standard on a global screen created automatically.
- For error contents, refer to the “Troubleshooting and List of Error Codes”.

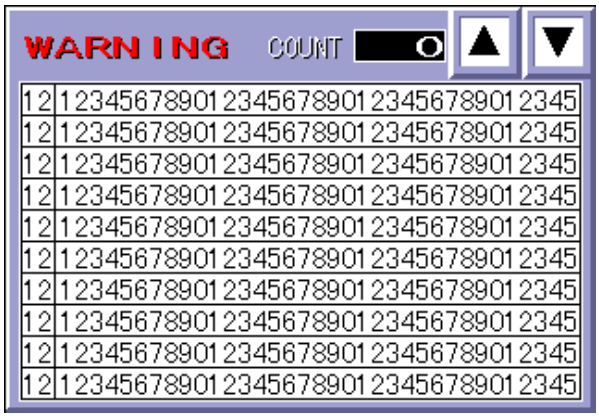
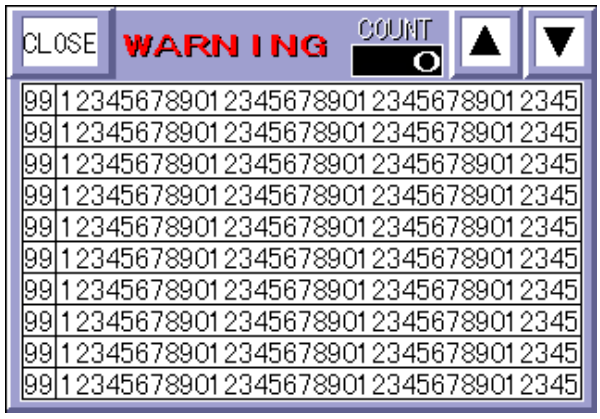
■ Operation parameters

Operation Parameter	Initial Value	Description
[Template setup]		
○ [clock error mask]	1	“0”: Detects errors. “1”: Not detect errors.
○ [battery voltage drop error mask]	1	“0”: Detects errors. “1”: Not detect errors.
○ [serial communication error mask]	0	“0”: Detects errors. “1”: Not detect errors.

■ Remark

- This part can also display errors that are usually displayed at the bottom of the panel screen when “Window Display” is specified for “Error Display Setup” on the system mode screen of the panel.

Alarms Warning display (bit devices)	**List type warning display (bit devices)**	D: About 4300 bytes S: About 2300 bytes

#CLA2000 / #CLA2001 #MLA2000 / #MLA2001 List type warning display	#CLA2002 / #CLA2003 #MLA2002 / #MLA2003 List type warning display (with CLOSE)
	

■ Function
- This part displays a list of registered texts corresponding to the ON bits of the connected bit devices (total number of warning bits).
- This part must be closed when arranged on a global screen.
- This part is opened automatically when the connected bit devices (total number of warning bits) are turned on and closed automatically when all the connected bit devices are turned off. (For a part provided with a CLOSE switch, the CLOSE switch can be used to close the part.)
- Offset from “first bit device name” + “first registered text No.” is assumed as the numbers of the registered texts to display.

■ Operation parameters

Operation Parameter	Initial Value	Description
[Template setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [first device name]		Enter the name of the first bit device for which a warning is to be displayed.
○ [total number of warning bits]	50	Enter the total number of bit devices for which warnings are to be displayed.
○ [first registered text No.]	1	Enter the number of the first registered text to be displayed as warning.

■ Remark
- Registered texts to display must be created and registered in advance.
- Specifying [total number of warning bits] too large degrades the performance of the panel itself.
  To avoid this, use “list type warning display (word devices)”.
- When the “display control function” is valid and nothing is displayed on the panel screen, this part can display nothing even when it is opened. To avoid this, use a “back light control part” together with this part.

Alarms Warning display (bit devices)	**Warning scroll display (bit devices)**	D: About 4100 bytes S: About 1600 bytes

#CLA2101	#CLA2102
#MLA2101	#MLA2102
Warning scroll display (40 characters)	Warning scroll display (80 characters)
1234567890123456789012345678901234567890	12345678901234567890123456789012345678901234567890123456789012345678901234567890

■ Function
- This part displays a horizontal line of registered texts corresponding to the ON bits of the connected bit devices (total number of warning bits).
- This part must be closed when arranged on a global screen.
- This part is opened automatically when the connected bit devices (total number of warning bits) are turned on and closed automatically when all the connected bit devices are turned off.
- Offset from “first bit device name” + “first registered text No.” is assumed as the numbers of the registered texts to display.

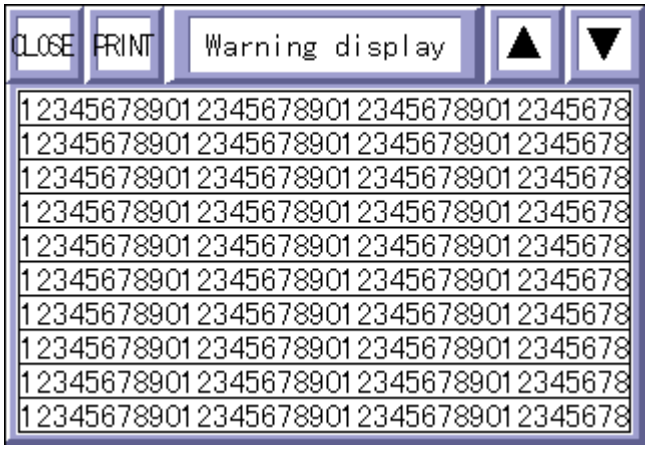
■ Operation parameters

Operation Parameter	Initial Value	Description
[Template setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [first device name]		Enter the name of the first bit device for which a warning is to be displayed.
○ [total number of warning bits]	50	Enter the total number of bit devices for which warnings are to be displayed.
○ [number of characters to display]	40 or 80	Enter the size of the character display in use.
○ [scrolling speed]	3	Specify the scrolling speed. The larger the value is set, the slower the speed becomes.
○ [number of characters to move]	2	Specify the number of characters to scroll at once.
○ [display type (0/1)]	0	Specify a processing to be executed when a bit is reset before scrolling. “0”: Displays no message. “1”: Displays a message certainly.
○ [first registered text No.]	1	Enter the number of the first registered text to be displayed as warning.

■ Remark
- The registered text to display must be created and registered in advance.
  The registered text must be within one line (80 characters or less).
  The registered text value must be greater than the value of “number of characters to move”.
- Specifying [total number of warning bits] too large degrades the performance of the panel itself.
  To avoid this, use “warning scroll display (word devices)”.
- When the scrolling speed is increased, the operations of other parts may become slower.
  To avoid this, make the “scrolling speed” lower and increase the value of “number of characters to move”.
- When the “display control function” is valid and nothing is displayed on the panel screen, this part can display nothing even when it is opened. To avoid this, use a “back light control part” together with this part.

Alarms Warning display (bit devices)	**Warning history display (bit devices)**	D: About 4800 bytes S: About 3000 bytes

#CLA2200 / #CLA2201
#MLA2200 / #MLA2201



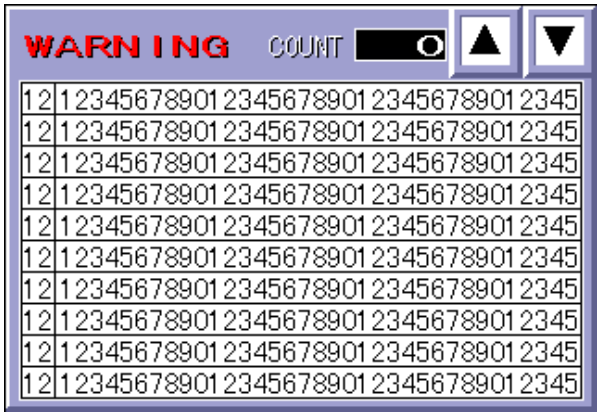
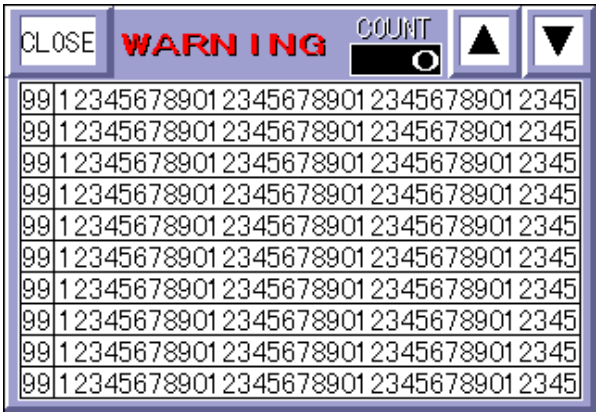
■ Function
- This part displays a list of registered texts, dates, and detected/reset status corresponding to the ON/OFF bits of the connected bit devices (total number of warning bits).
- This part must be closed when arranged on a global screen.
- This part is opened automatically when the connected bit devices (total number of warning bits) are turned on/off and closed by the CLOSE switch.
- If any connected device is turned on/off while “History being updated now” is displayed for the “display guide”, the message is changed to “The history has been updated” without updating the display.
  At this time, pressing “Display Guide” will display the warning history again.
- If “YES” is specified for “Auto Printing YES/NO”, data is printed out each time an alarm is detected/reset.
- Offset from “first bit device name” + “first registered text No.” is assumed as the numbers of the registered texts to display.

■ Operation parameters

Operation Parameter	Initial Value	Description
[Template setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [first bit device name]		Enter the name of the first bit device for which a warning is to be displayed.
○ [total number of warning bits]	50	Enter the total number of bit devices for which warnings are to be displayed.
○ [number of records]	20	Specify the number of historic records to store.
○ [first registered text No.]	1	Enter the number of the first registered text to be displayed as warning.
○ [auto printing (1:YES/0:NO]	0	Specify whether to print out warning each time it is detected/reset.

■ Remark
- Registered texts to display must be created and registered in advance.
- Connect a printer before printing out any warning.
- When the “display control function” is valid and nothing is displayed on the panel screen, this part can display nothing even when it is opened. To avoid this, use a “back light control part” together with this part.

Alarms Warning display (word devices)	**List type warning display (word devices)**	D: About 3700 bytes S: About 2100 bytes

#CLA3000 / #CLA3001	#CLA3002 / #CLA3003
#MLA3000 / #MLA3001	#MLA3002 / #MLA3003
List type warning display	List type warning display (with CLOSE)
	

■ Function

- This part displays a list of registered texts corresponding to the ON bits by regarding each of the connected word devices (total number of warning words) as a warning bit (total number of warning monitors).
- This part must be closed when arranged on a global screen.
- This part is opened automatically when the connected bit devices (total number of warning words) are turned on and closed automatically when all the connected bit devices are turned off. (For a part provided with a CLOSE switch, the CLOSE switch can be used to close the part.)
- Offset from “first word device name” + “first registered text No.” is assumed as the numbers of the registered texts to display. Word devices are counted as bit devices.

■ Operation parameters

Operation Parameter	Initial Value	Description
[Template setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [first word device name]		Enter the name of the first word device for which a warning is to be displayed.
○ [total number of warning words]	5	Enter the total number of word devices for which warnings are to be displayed.
○ [total number of monitors]	80	Specify this value as “total number of warning words” × 16.
○ [first registered text No.]	1	Enter the number of the first registered text to be displayed as warning.

■ Remark

- The registered text to display must be created and registered in advance.
- When the “display control function” is valid and nothing is displayed on the panel screen, this part can display nothing even when it is opened. To avoid this, use a “back light control part” together with this part.

Alarms Warning display (word devices)	**Warning scroll display (word devices)**	D: About 4500 bytes S: About 850 bytes

#CLA3101	#CLA3102
#MLA3101	#MLA3102
Warning scroll display (40 characters)	Warning scroll display (80 characters)
1234567890123456789012345678901234567890	1234567890123456789012345678901234567890123456789012345678901234567890

■ Function

- This part displays a horizontal line of registered texts corresponding to the ON bits by regarding each bit of the connected word devices (for the total number of warning words) as a warning bit (for the total number of warning monitors).
- This part must be closed when arranged on a global screen.
- This part is opened automatically when the connected word devices (for the total number of warning words) are turned on and closed automatically when all the connected word devices are turned off.
- Offset from "first word device name" + "first registered text No." is assumed as the numbers of the registered texts to display. Word devices are counted as bit devices.

■ Operation parameters

Operation Parameter	Initial Value	Description
[Template setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [first device name]		Enter the name of the first word device for which a warning is to be displayed.
○ [total number of warning words]	5	Enter the total number of word devices for which warnings are to be displayed.
△ [number of characters to display]	40 or 80	Enter the size of the character display in use.
○ [scrolling speed]	3	Specify the scrolling speed. The larger the value is set, the slower the speed becomes.
○ [number of characters to move]	2	Specify the number of characters to scroll at once.
○ [display type (0/1)]	0	Specify a processing to be executed when a bit is reset before scrolling. "0": Displays no message. "1": Displays a message certainly.
○ [first registered text No.]	1	Enter the number of the first registered text to be displayed as warning.
○ [total number of warning monitors]	80	Specify this value as "total number of warning words" × 16.

■ Remark

- The registered text to display must be created and registered in advance.
  The registered text must be within one line (80 characters or less).
  The registered text value must be greater than the value of "number of characters to move".
- When the scrolling speed is increased, the operations of other parts may become slower. To avoid this, make the "scrolling speed" lower and increase the value of "number of characters to move".
- When the "display control function" is valid and nothing is displayed on the panel screen, this part can display nothing even when it is opened. To avoid this, use a "back light control part" together with this part.

12. TEXTURE DISPLAYS

Texture displays	**Registered texture display**	D: About 100 bytes S: About 120 bytes

#CLF1001
#MLF1001
(No texture is provided.)

■ Function
- This part displays registered texture according to the value of the connected device.
- The value of “Connected device value” + “Head No. of texture.” is assumed as the number of the registered texture to display.
- This part setup differs between word device and bit device.

[For a word connected device]
- This part displays the registered texture of the number corresponding to the value of the connected device.

[For a bit connected device]
- This part displays the registered texture of the number corresponding to the position from the first turned-ON device of the “continuous device” started at the first connected device.

■ Operation parameters

Operation Parameter	Initial Value	Description
[Character display setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [device name]		Enter the name of the device that specifies the registered texture number.
○ [continuous device]	1	Word device: Enter “1”. Bit device: Enter the number of bit devices to use.
○ [data type]	BIN	Specify the type of the connected devices.
○ [head No. of texture.]	1	Enter the number of the first registered texture to display.

■ Remark
- The texture to display must be created and registered in advance.

13. SPECIAL PARTS

Special parts Screen print	**Screen print**	D: Refer to the table. S: Refer to the table.

#CAZ1001	#CLZ1001
#MAZ1001	#MLZ1001
Screen print switch	Screen print control
D: About 310 bytes S: About 140 bytes	D: About 190 bytes S: About 80 bytes
	(No texture is used.)

■ Function

[Screen print switch]

- This switch hard-copies screen data.

[Screen print control]

- This part hard-copies screen data when the connected device value is 1.

■ Operation parameters

[Screen print switch]

Operation Parameter	Initial Value	Description
[Template setup]		
○ [color No.] (color parts only)	8	Specify a color to become black with a pallet number when using a monochrome printer. This parameter is invalid when in color printing.

[Screen print control]

Operation Parameter	Initial Value	Description
[Template setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [connected device name]		Enter the name of the device for which screen data is to be printed out.
○ [color No.] (color parts only)	8	Specify a color to become black with a pallet number when using a monochrome printer. This parameter is invalid when in color printing.

■ Remark

- Connect a printer before printing out screen data.

Special parts Parts control	**Parts control**	D: Refer to the table. S: Refer to the table.

#CAZ2001	#CLZ2001
#MAZ2001	#MLZ2001
Parts control switch (OPEN/CLOSE)	Parts control (OPEN/CLOSE)
D: About 320 bytes S: About 140 bytes	D: About 240 bytes S: About 80 bytes
	(No texture is used.)

■ Function

[Parts control switch (OPEN/CLOSE)]

- This switch is turned on to open the object part and turned off to close the part.

[Parts control (OPEN/CLOSE)]

- This switch opens the object part when the value of the connected device is 1 and closes the part when it is 0.

■ Operation parameters

[Parts control switch (OPEN/CLOSE)]

Operation Parameter	Initial Value	Description
[Template setup]		
△ [screen name having object part]		Enter the name of the global screen when the object part exists on the screen. Enter nothing if the object part exists on the self-screen.
◎ [object part name]		Enter the name of the object part to open/close.
△ [self-screen:1/global screen: none]	1	Enter “1” when the object part exists on the self-screen. Enter nothing if the object part exists on a global screen.

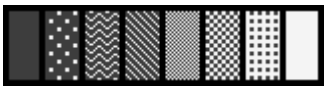
[Parts control (OPEN/CLOSE)]

Operation Parameter	Initial Value	Description
[Template setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [connected device name]		Enter the name of the device that controls parts.
△ [screen name having object part]		Enter the name of the global screen when the object part exists on the screen. Enter nothing if the object part exists on the self-screen.
◎ [object part name]		Enter the name of the object part to open/close.
△ [self-screen:1/global screen: none]	1	Enter “1” when the object part exists on the self-screen. Enter nothing if the object part exists on a global screen.

■ Remark

- Specify “enable movement” for the object part. Otherwise, the part cannot be closed.

Special parts Brightness adjustment	**Brightness adjustment**	D: About 1600 bytes S: About 1100 bytes

#CAZ3001
#MAZ3001


■ Function
- This part adjusts the brightness of the panel screen in 8 steps.

■ Remark
- This part is the same as that arranged on the “system mode screen” of the panel.

Special parts Back-light control	**Back-light control**	D: Refer to the table. S: Refer to the table.

#CLZ4001	#CLZ4002
#MLZ4001	#MLZ4002
Back-light control	Back-light continuous ON
D: About 230 bytes S: About 80 bytes	D: About 260 bytes S: About 90 bytes
(No texture is used.)	(No texture is provided.)

■ Function

[Back-light control]

- This part turns off the back-light of the panel screen when the value of the connected device is 1 and turns it on when the value is 0.
- This part must be closed when arranged on a global screen.

[Back-light continuous ON]

- This part resets the panel display control time temporarily to keep the back-light on when the value of the connected device is 1.
  When the value is 0, this part restores the initial panel display control time.
- This part is valid only when the panel display control time is set.
- This part must be closed when arranged on a global screen.

■ Operation parameters

Operation Parameter	Initial Value	Description
[Template setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [connected device name]		Enter the name of the device that controls the back-light of the panel screen.

Special parts Interlock control	**Interlock control**	D: Refer to the table. S: Refer to the table.

#CAZ5001	#CAZ5002
#MAZ5001	#MAZ5002
Interlock control (2-point push)	Interlock control (reset time setting)
D: About 500 bytes S: About 230 bytes	D: About 480 bytes S: About 170 bytes
	

■ Function

- This part interlocks the screen not to go to the “system mode screen” when both “lower right” and “upper left of the panel screen are pressed concurrently.
- Arrangement of this part enables the screen to be interlocked just after the panel is started.

[Interlock control (2-point push)]

- This part resets an interlock when the right switch is pressed while the left switch is held down. (If the right switch is pressed while the left switch is held down, only the right switch makes a click sound.)

[Interlock control (reset time setting)]

- Pressing a switch in this part resets the interlock for a “wait time (sec)”. In the “wait time (sec), the screen is interlocked again.

■ Operation parameters

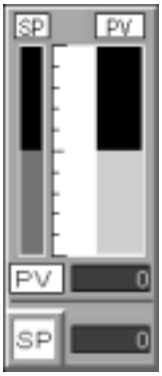
[Interlock control (reset time setting)]

Operation Parameter	Initial Value	Description
[Template setup]		
○ [wait time (sec)]	3	Specify the reset time to be kept until it is set.

■ Remark

- Be careful not to forget the place where the “interlock control” part is arranged. Otherwise, you will never return to the “system mode” screen.

Special parts Heat regulator	**Heat regulator**	D: About 2500 bytes S: About 430 bytes

#CLZ6001
#MLZ6001


■ Function
- This part sets up and displays a heat regulator.
- This part is combined with a “ten-key pad (for input numeral display)” for use.
- The “SP” numeral input function of this part is the same as that of the “input numeral display (word)” parts.
  For the operation parameters, refer to those of “input numeral display (word)” parts.
- Specify the same connected device in PV and SP.

■ Operation parameters
[Number indicator: NUM_PV]

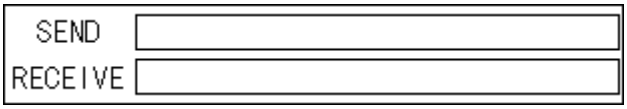
Operation Parameter	Initial Value	Description
[Number indicator setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [device name]		Enter the name of the device whose value is to be displayed as a numeral (PV).
○ [device type]	Word	Enter the number of words to display
○ [endian]	little	Valid when double words are specified. From bottom to top: The lower word comes first. From top to bottom: The upper word comes first.
○ [data type]	sign BIN	Specify the type of connected device.
△ [filter]		Specify this parameter to display a corrected value of the connected device.
○ [color]	1 or 11	Specify the color of the number.

[Bar : BAR_PV/BAR_SP]

Operation Parameter	Initial Value	Description
[Bar setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [device name]		Enter the name of the device whose value is to be displayed as (PV/SP).
○ [data type]	BIN	Specify the type of connected device.
○ [sampling time]	0	Fixed to “0”.
△ [filter]		Specify this parameter to display a corrected value of the connected device.
○ [number of bars]	1	Fixed to “1”.
○ [bar width]	30 or 15	Specify the number of dots as the width of the bar.

[Template]: Refer to the “input numeral display (word)” parts.

Special parts Non-protocol communication	**Non-protocol communication**	D: Refer to the table. S: Refer to the table.

#CGZ7001	#CGZ7002
#MGZ7001	#MGZ7002
Non-protocol communication	Non-protocol communication (DEBUG)
D: About 900 bytes S: About 380 bytes	D: About 1100 bytes S: About 520 bytes
(No texture is used.)	

■ Function

- The K-Basic, which is the basic part of non-protocol communications, is described in this part (sample program). Create non-protocol communication programs with reference to this part program.
- This sample program uses the "text mode" of non-protocol communications to set "&h0D" as a terminator code.
- Each "DEBUG" part displays send/receive data as characters.
- This sample program does not execute the "CLOSESIO" command. To change any screen, add the "CLOSESIO" command.

[Sample program protocol]

- This protocol is also used for the "C series" of "OMRON".

[Transmission format]

@	00 (serial No.)	RD (header code)	???? (CH No.)	0001 (read CH count)	FCS (checksum)	*↓ (terminator)

[Receive format]

@	00 (serial No.)	RD (header code)	00 (end No.)	???? (read data)	FCS (checksum)	*↓ (terminator)

■ Operation parameters

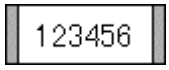
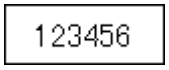
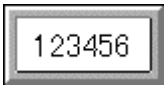
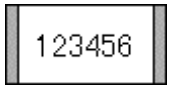
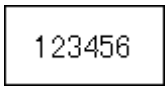
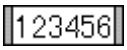
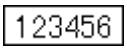
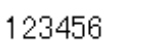
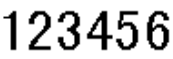
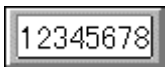
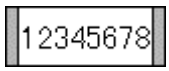
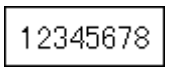
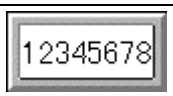
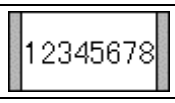
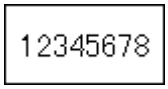
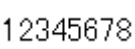
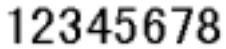
Operation Parameter	Initial Value	Description
[Template setup]		
○ [port No.]	1	Specify the port number of the panel used for non-protocol communications. "1": RS-232C CH1 "2": RS-232C CH2 "3": RS-485 (CH3)
○ [sampling time]	5	Specify the data transmission interval when the panel becomes a master station. Data is transmitted at intervals of "set value × 100 ms".

■ Remark

- Specify the communication type to "not used" for the non-protocol communication port and make the communication items including the communication rate match with those of the connected devices.
- Setting the "sampling time" faster will cause the operations of other parts to be slowed down.
- When using the RS-485 port as a half-duplex port, transmitted data is returned as receive data. Take this into consideration when creating non-protocol communication programs.

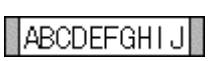
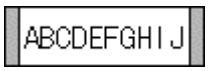
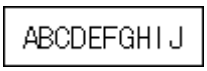
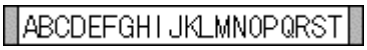
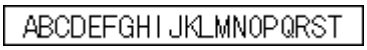
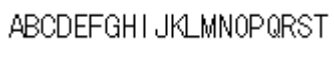
14. HOST COMMAND COMMUNICATION PARTS

Host command communication parts Numeral display (host command)	**Numeral display (host commands)**	D: About 280 bytes S: About 130 bytes

#CHN1001	#CHN1002	#CHN1003	#CHN1004	#CHN1005
#MHN1001	#MHN1002	#MHN1003	#MHN1004	#MHN1005
				
#CHN1006	#CHN1007	#CHN1008	#CHN1009	#CHN1010
#MHN1006	#MHN1007	#MHN1008	#MHN1009	#MHN1010
				
#CHN1011	#CHN1012	#CHN1013	#CHN1014	#CHN1015
#MHN1011	#MHN1012	#MHN1013	#MHN1014	#MHN1015
				
#CHN1016	#CHN1017	#CHN1018		
#MHN1016	#MHN1017	#MHN1018		
				

■ Function
- This part is used for host command communications.
- This part displays numerals sent through host command communications.

Host command communication parts Character display (host commands)	**Character display (host commands)**	D: About 280 bytes S: About 130 bytes

#CHM1001 #MHM1001	#CHM1002 #MHM1002	#CHM1003 #MHM1003
		
#CHM1004 #MHM1004	#CHM1005 #MHM1005	#CHM1006 #MHM1006
		
#CHM1007 #MHM1007	#CHM1008 #MHM1008	#CHM1009 #MHM1009
		
#CHM1010 #MHM1010	#CHM1011 #MHM1011	#CHM1012 #MHM1012
		

■ Function
- This part is used for host command communications.
- This part displays texts sent through host command communications.

Host command communication parts Lamp (host commands) LED	**LED (host commands)**	D: About 290 bytes S: About 110 bytes

#CHL1001 #MHL1001	#CHL1002	#CHL1003	#CHL1004 #MHL1004	#CHL1005	#CHL1006	#CHL1007 #MHL1007	#CHL1008
							
#CHL1009	#CHL1010 #MHL1010	#CHL1011	#CHL1012	#CHL1013 #MHL1013	#CHL1014	#CHL1015	#CHL1016 #MHL1016
							
#CHL1017	#CHL1018	#CHL1019	#CHL1020 #MHL1020	#CHL1021	#CHL1022	#CHL1023 #MHL1023	#CHL1024
							
#CHL1025	#CHL1026 #MHL1026	#CHL1027	#CHL1028	#CHL1029 #MHL1029	#CHL1030	#CHL1031	#CHL1032 #MHL1032
							
#CHL1033	#CHL1034	#CHL1035 #MHL1035	#CHL1036	#CHL1037			
							

- Function
  - This part is used for host command communications.
  - This part (lamp) comes on when the value sent through host command communications is 1 and goes off when the value is 0.

Host command communication parts Lamp (host commands) Mark lamp	**Mark lamp (host commands)**	D: About 290 bytes S: About 110 bytes

#CHL2001	#CHL2002	#CHL2003	#CHL2004	#CHL2005	#CHL2006	#CHL2007	#CHL2008
#MHL2001	#MHL2002	#MHL2003	#MHL2004	#MHL2005	#MHL2006	#MHL2007	#MHL2008
							

#CHL2009	#CHL2010	#CHL2011	#CHL2012	#CHL2013	#CHL2014	#CHL2015	#CHL2016
#MHL2009	#MHL2010	#MHL2011	#MHL2012	#MHL2013	#MHL2014	#MHL2015	#MHL2016
							

#CHL2017	#CHL2018	#CHL2019	#CHL2020	#CHL2021	#CHL2022	#CHL2023	#CHL2024
#MHL2017	#MHL2018	#MHL2019	#MHL2020	#MHL2021	#MHL2022	#MHL2023	#MHL2024
							

#CHL2025	#CHL2026	#CHL2027	#CHL2028	#CHL2029	#CHL2030	#CHL2031	#CHL2032
#MHL2025	#MHL2026	#MHL2027	#MHL2028	#MHL2029	#MHL2030	#MHL2031	#MHL2032
							

Host command communication parts Lamp (host commands) Name plate lamp	**Name plate lamp (host commands)**	D: About 310 bytes S: About 110 bytes

#CLL3001	#CLL3002	#CLL3003	#CLL3004	#CLL3005	#CLL3006	#CLL3007	#CLL3008
#MLL3001	#MLL3002	#MLL3003	#MLL3004	#MLL3005	#MLL3006	#MLL3007	#MLL3008
							

#CLL3009	#CLL3010	#CLL3011	#CLL3012	#CLL3013	#CLL3014	#CLL3015	#CLL3016
#MLL3009	#MLL3010	#MLL3011	#MLL3012	#MLL3013	#MLL3014	#MLL3015	#MLL3016

■ Function
- This part is used for host command communications.
- This part (lamp) comes on when the value sent through host command communications is 1 and goes off when the value is 0.

Host command communication parts Switch (host commands) Mark switch	**Mark switch (host commands)**	D: About 340 bytes S: About 150 bytes

#CHS1001	#CHS1002	#CHS1003	#CHS1004	#CHS1005	#CHS1006	#CHS1007	#CHS1008
#MHS1001		#MHS1003	#MHS1004	#MHS1005	#MHS1006	#MHS1007	#MHS1008
							
#CHS1009	#CHS1010	#CHS1011	#CHS1012	#CHS1013	#CHS1014	#CHS1015	#CHS1016
#MHS1009	#MHS1010	#MHS1011	#MHS1012	#MHS1013	#MHS1014	#MHS1015	#MHS1016
							
#CHS1017	#CHS1018	#CHS1019	#CHS1020				
#MHS1017	#MHS1018	#MHS1019	#MHS1020				
							

Host command communication parts Switch (host commands) Name plate switch	**Name plate switch (host commands)**	D: About 350 bytes S: About 150 bytes

#CHS2001	#CHS2002	#CHS2003	#CHS2004	#CHS2005	#CHS2006	#CHS2007	#CHS2008
#MHS2001	#MHS2002	#MHS2003	#MHS2004	#MHS2005	#MHS2006	#MHS2007	#MHS2008
							
#CHS2009	#CHS2010	#CHS2011	#CHS2012				
#MHS2009	#MHS2010	#MHS2011	#MHS2012				
							

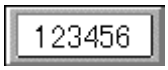
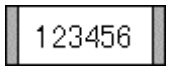
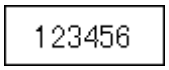
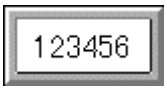
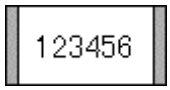
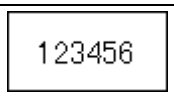
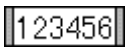
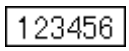
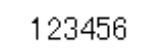
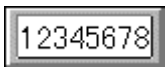
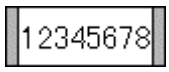
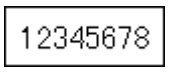
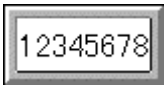
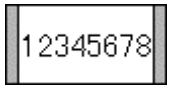
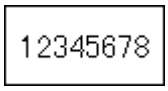
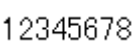
■ Function
- This part is used for host command communications.
- This part transmits its ON/OFF status to the host.

■ Operation parameters

Operation Parameter	Initial Value	Description
[Template setup]		
○ [transmit text]	“”	Enter the text to be sent to the host together with the ON/OFF status. Enter the text in “ “. When sending no text, delete the “ “ portion.

2. NUMERAL DISPLAYS

Numeral displays Numeral display	Numeral display	D: About 160 bytes S: About 130 bytes

#CLN1001	#CLN1002	#CLN1003	#CLN1004	#CLN1005
#MLN1001	#MLN1002	#MLN1003	#MLN1004	#MLN1005
				
#CLN1006	#CLN1007	#CLN1008	#CLN1009	#CLN1010
#MLN1006	#MLN1007	#MLN1008	#MLN1009	#MLN1010
				
#CLN1011	#CLN1012	#CLN1013	#CLN1014	#CLN1015
#MLN1011	#MLN1012	#MLN1013	#MLN1014	#MLN1015
				
#CLN1016	#CLN1017	#CLN1018		
#MLN1016	#MLN1017	#MLN1018		
				

■ Function

- This part displays the value of its connected device.

■ Operation parameters

Parameter	Initial Value	Description
[Number indicator setting]		
○ [station No.]	01	Enter the PLC station number.
◎ [device name]		Enter the name of the device whose value is to be displayed. For a double-word device, enter the name of the first device.
○ [device type]	word	Enter the number of words to display.
○ [endian]	little	Valid when double words are specified. Little: The lower word comes first. Big: The upper word comes first.
○ [data type]	sign BIN	Enter the type of the connected device.
△ [filter]		Specify this parameter when displaying a corrected value of the connected device.
○ [color]	1 or 11	Set the numeral color.

■ Remark

- The "endian" specification will be as shown below when "double words" is specified.
  Example) When "R2000" is specified for "device name"
  "little": "R2000" value "1", "R2001" value "0" → Numeral display "1"
  "big": "R2000" value "1", "R2001" value "0" → numeral display "65536"
- The decimal point can be put at any digit when "position of point" is specified for "Details edit" of the numeral displays. (This is valid only when "Fixed 2" is specified for "decimal point".)
  Example) When [position of point] = 2: Connected device value "1234" → display value "12.34"

Numeral displays Numeral display	Numeral display	D: About 160 bytes S: About 130 bytes

#CLN1051	#CLN1052	#CLN1053	#CLN1054	#CLN1055
#MLN1051	#MLN1052	#MLN1053	#MLN1054	#MLN1055
1	1	12	12	123
#CLN1056	#CLN1057	#CLN1058	#CLN1059	#CLN1060
#MLN1056	#MLN1057	#MLN1058	#MLN1059	#MLN1060
123	1234	1234	12345	12345

■ Function

- This numeral display displays the value of a connected device.

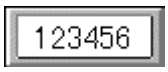
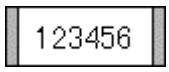
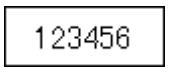
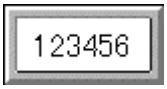
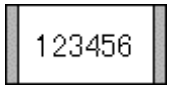
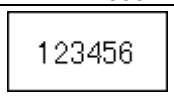
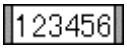
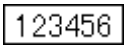
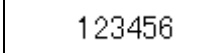
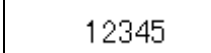
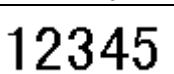
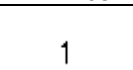
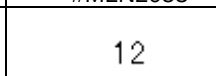
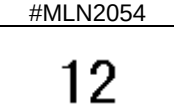
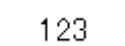
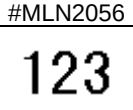
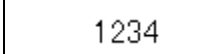
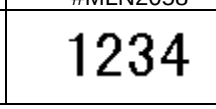
■ Operation parameters

Parameter	Initial Value	Description
[Number indicator setting]		
○ [station No.]	01	Enter the name of the PLC station number.
◎ [device name]		Enter the name of the device whose value is to be displayed. For a double-word device, enter the name of the first device.
○ [device type]	word	Specify the number of words to display.
○ [endian]	little	This parameter is valid when double words are specified. Little: The lower word comes first. Big: The upper word comes first.
○ [data type]	signed BIN	Specify the type of the connected device.
△ [filter]		Specify this parameter to display a corrected value of the connected device.
○ [color]	1 or 11	Specify the color used for numerals.

■ Remark

- The specifications of [endian] will be as shown below when [double words] is specified.
  Example) When "R2000" is specified for [device name]
  "Little": "R2000" value... "1", "R2001" value... "0" → displayed numeral... "1".
  "Big": "R2000" value... "1", "R2001" value... "0" → displayed numeral... "65536".
- If "position of point" is specified for "EDIT DETAILS" of numeral displays, the decimal point can be displayed at a given digit. (This is valid when "fixed 2" is specified for "decimal point".)
  Example) When [position of point]=2: Connected device value "1234" → displayed value "12.34".

Numeral display Input numeral display (word)	Input numeral display (Word)	D: About 1700 bytes S: About 210 bytes

#CLN2001	#CLN2002	#CLN2003	#CLN2004	#CLN2005
#MLN2001	#MLN2002	#MLN2003	#MLN2004	#MLN2005
				
#CLN2006	#CLN2007	#CLN2008	#CLN2009	#CLN2010
#MLN2006	#MLN2007	#MLN2008	#MLN2009	#MLN2010
				
#CLN2011		#CLN2051	#CLN2052	#CLN2053
#MLN2011		#MLN2051	#MLN2052	#MLN2053
				
#CLN2054	#CLN2055	#CLN2056	#CLN2057	#CLN2058
#MLN2054	#MLN2055	#MLN2056	#MLN2057	#MLN2058
				

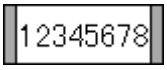
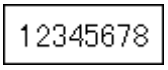
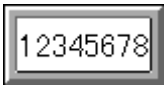
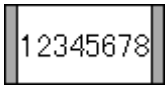
■ Function

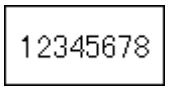
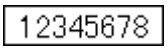
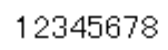
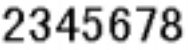
- This part is combined with a "ten-key pad (input)" for use.
- Pressing this part opens the ten-key pad. The data entered from the ten-key pad is written in a PLC and displayed as a value.
- The upper and lower limits of the value entered from the ten-key pad are checked. If the value is not within the preset limits, the value is not written in the PLC and retry of the value entry is requested.
- Specify [next part name]. The cursor goes to the next "input numeral display" part. This function is useful for setting values continuously.
- The decimal point can be set at any digit when [position of point] is specified.
  Example) When [position of point] = 2: Connected device value "1234" → display value "12.34"

■ Operation parameters

Parameter	Initial Value	Description
[Template setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [connected device name]		Enter the name of the device to which a value is to be written and displayed.
○ [position of point]	0	Specify the position where the decimal point is to be displayed.
○ [BIN:1, ±BIN:2/BCD:3]	2	Select the type of the connected device.
△ [next part name]		Enter the name of the part to which the cursor is to be moved. If no next part exists, enter nothing.
○ [input min. value]	0	Enter the lower limit value of input data.
○ [input max. value]	9 - 10000	Enter the upper limit value of input data.
△ [screen name having ten-key pad]		Enter the name of the global screen when the ten-key pad is on a global screen. Enter nothing if the ten-key pad is on the self-screen.
◎ [ten-key pad name]		Enter the name of the ten-key pad.
△ [self-screen:1/global screen: none]	1	Enter "1" when the ten-key pad is on the self-screen. Enter nothing when the ten-key pad is on a global screen.

Numeral displays Input numeral display (double words)	Input numeral display (double words)	D: About 2110 bytes S: About 240 bytes

#CLN3001	#CLN3002	#CLN3003	#CLN3004	#CLN3005
#MLN3001	#MLN3002	#MLN3003	#MLN3004	#MLN3005
				

#CLN3006	#CLN3007	#CLN3008	#CLN3009	
#MLN3006	#MLN3007	#MLN3008	#MLN3009	
				

■ Function

- This part is combined with a "ten-key pad (input numerals)" for use.
- Pressing this part opens the ten-key pad. The data entered from the ten-key pad is written in a PLC and displayed as a value.
- The upper and lower limits of the value entered from the ten-key pad are checked. If the value is not within the limits, the value is not written in the PLC and retry of the value entry is requested.
- Specify [next part name]. The cursor goes to the next "input display" part. This function is useful for setting values continuously.
- The decimal point can be set at any digit when [position of point] is specified.
  Example) When [position of point] = 2: Connected device value "1234" → display value "12.34"

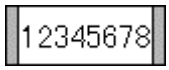
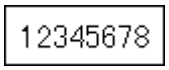
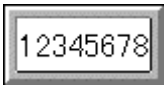
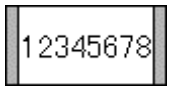
■ Operation parameters

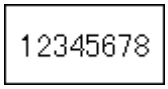
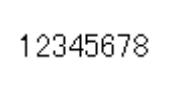
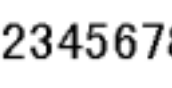
Operation Parameter	Initial Value	Description
[Template setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [connected device name]		Enter the name of the device to which a value is to be written and displayed.
○ [position of point]	0	Specify the position where the decimal point is to be displayed.
○ [data listing lower:1/upper:2]	1	Specify the first word of the double words.
○ [BIN:1, ±BIN:2/BCD:3]	2	Select the type of the connected device.
△ [next part name]		Enter the name of the part to which the cursor is to be moved. If no next part exists, enter nothing.
○ [input min. value]	0	Enter the lower limit value of input data.
○ [input max. value]	1000000	Enter the upper limit value of input data.
△ [screen name having ten-key pad]		Enter the name of the global screen when the ten-key part is on a global screen. Enter nothing if the ten-key pad is on the self-screen.
◎ [ten-key pad name]		Enter the name of the ten-key pad.
△ [self-screen:1/global screen: none]	1	Enter "1" when the ten-key pad is on the self-screen. Enter nothing when the ten-key pad is on a global screen.

■ Remark

- The [data listing lower/upper] specification is as shown below.
  Example) When "R2000" is specified for [connected device name]
  Lower: Entered value "123" → "R2000" value "123", "R2001" value "0"
  Upper: Entered value "123" → "R2000" value "0", "R2001" value "123"

Numeral displays Numeral display (4 bytes) dedicated to byte devices	Numeral display (4 bytes)	D: About 740 bytes S: About 170 bytes

#CLN4101	#CLN4102	#CLN4103	#CLN4104	#CLN4105
#MLN4101	#MLN4102	#MLN4103	#MLN4104	#MLN4105
				

#CLN4106	#CLN4107	#CLN4108		
#MLN4106	#MLN4107	#MLN4108		
				

■ Function

- This part is used only for a PLC having byte devices.
- This part displays values of the connected devices for 4 bytes (equal to double words).
- When displaying the values of the connected devices for 2 bytes (equal to a word), an ordinary "numeral display" part (#CLN1001/#MLN1001, etc.) can be used. At this time, [device type] of the part must be specified for "double words". (For a byte device, this function displays the data for a word.
- The decimal point can be displayed at any digit when [position of point] is specified.
  Example) When [position of point] = 2, connected device value "1234" → display value "12.34"

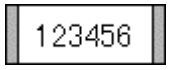
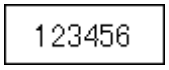
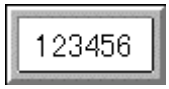
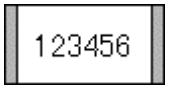
■ Operation parameters

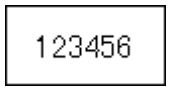
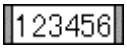
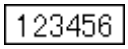
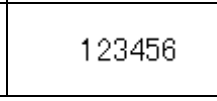
Operation Parameter	Initial Value	Description
[Template setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [connected device name]		Enter the name of the first device to which a value is to be displayed.
○ [position of point]	0	Specify the position where the decimal point is to be displayed.
○ [data listing lower:1/upper:2]	1	Specify the data of the first device of the four connected byte devices.
○ [±BIN:2/BCD:3]	2	Select the type of each connected device.

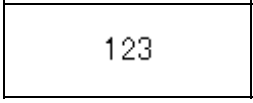
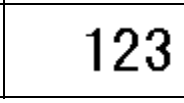
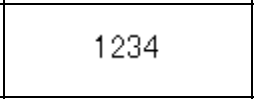
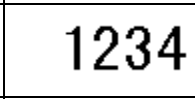
■ Remark

- The [data listing lower/upper] specification is as shown below.
  Example) When "E100" is specified for "device name"
  Lower: "E100" value "1", "E101" to "E103" values "0" → display value "1"
  Upper: "E100" value "1", "E101" to "E103" values "0" → display value "16777216"

Numeral displays Input numeral display (2 bytes) dedicated to byte devices	Input numeral display (2 bytes)	D: About 2300 bytes S: About 250 bytes

#CLN4201	#CLN4202	#CLN4203	#CLN4204	#CLN4205
#MLN4201	#MLN4202	#MLN4203	#MLN4204	#MLN4205
				

#CLN4206	#CLN4207	#CLN4208	#CLN4209	
#MLN4206	#MLN4207	#MLN4208	#MLN4209	
				

#CLN4251	#CLN4252	#CLN4253	#CLN4254	
#MLN4251	#MLN4252	#MLN4253	#MLN4254	
				

■ Function

- This part is used only for a PLC having byte devices.
- This part receives and displays a value of a 2-byte (equal to a word) connected device.
- This part is combined with a "ten-key pad (input numerals)" for use.
- Pressing this part opens the ten-key pad. The data entered from the ten-key pad is written in a PLC and displayed as a value.
- The upper and lower limits of the value entered from the ten-key pad are checked. If the value is not within the limits, the value is not written in the PLC and retry of the value entry is requested.
- Specify [next part name]. The cursor goes to the next "input numeral display" part. This function is useful for setting values continuously.
- The decimal point can be set at any digit when [position of point] is specified.
  Example) When [position of point] = 2: Connected device value "1234" → display value "12.34"

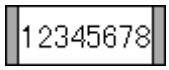
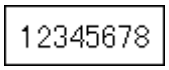
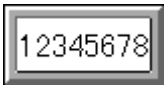
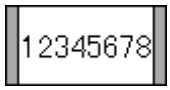
■ Operation parameters

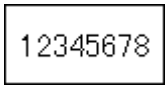
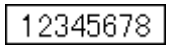
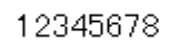
Operation Parameter	Initial Value	Description
[Template setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [connected device name]		Enter the name of the device to which a value is to be written and displayed.
○ [position of point]	0	Specify the position where the decimal point is to be displayed.
○ [data listing lower:1/upper:2]	1	Specify the data of the first device of the two connected byte devices.
○ [BIN:1, ±BIN:2/BCD:3]	2	Select the type of the connected device.
△ [next part name]		Enter the name of the part to which the cursor is to be moved. If no next part exists, enter nothing.
○ [input min. value]	0	Enter the lower limit value of input data.
○ [input max. value]	999 - 10000	Enter the upper limit value of input data.
△ [screen name having ten-key pad]		Enter the name of the global screen when the ten-key pad is on a global screen. Enter nothing if the ten-key pad is on the self-screen.
◎ [ten-key pad name]		Enter the name of the ten-key pad.
△ [self-screen:1/global screen: none]	1	Enter "1" when the ten-key pad is on the self-screen. Enter nothing when the ten-key pad is on a global screen.

■ Remark

- The [data listing lower/upper] specification is as shown below.
  Example) When "E100" is specified for [connected device name]
  Lower: Input value "123" → "E100" value "123", "E101" "0"
  Upper: Input value "123" → "E100" value "0", "E101" value "123"

Numeral displays Input numeral display (4 bytes) dedicated to byte devices	Input numeral display (4 bytes)	D: About 2800 bytes S: About 300 bytes

#CLN4301	#CLN4302	#CLN4303	#CLN4304	#CLN4305
#MLN4301	#MLN4302	#MLN4303	#MLN4304	#MLN4305
				

#CLN4306	#CLN4307	#CLN4308	#CLN4309	
#MLN4306	#MLN4307	#MLN4308	#MLN4309	
				

■ Function

- This part is used only for a PLC having byte devices.
- This part receives and displays a value of a 4-byte (equal to double words) connected device.
- This part is combined with a "ten-key pad (input numerals)" for use.
- Pressing this part opens the ten-key pad. The data entered from the ten-key pad is written in a PLC and displayed as a value.
- The upper and lower limits of the value entered from the ten-key pad are checked. If the value is not within the limits, the value is not written in the PLC and retry of the value entry is requested.
- Specify [next part name]. The cursor goes to the next "input numeral display" part. This function is useful for setting values continuously.
- The decimal point can be set at any digit when [position of point] is specified.
  Example) When [position of point] = 2: Connected device value "1234" → display value "12.34"

■ Operation parameters

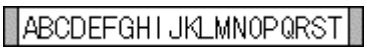
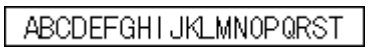
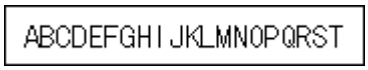
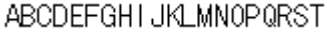
Operation Parameter	Initial Value	Description
[Template setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [connected device name]		Enter the name of the device to which a value is to be written and displayed.
○ [position of point]	0	Specify the position where the decimal point is to be displayed.
○ [data listing lower:1/upper:2]	1	Specify the data of the first device of the 4 connected byte devices.
○ [BIN:1, ±BIN:2/BCD:3]	2	Select the type of the connected device.
△ [next part name]		Enter the name of the part to which the cursor is to be moved. If no next part exists, enter nothing.
○ [input min. value]	0	Enter the lower limit value of input data.
○ [input max. value]	1000000	Enter the upper limit value of input data.
△ [screen name having ten-key pad]		Enter the name of the global screen when the ten-key pad is on a global screen. Enter nothing if the ten-key pad is on the self-screen.
◎ [ten-key pad name]		Enter the name of the ten-key pad.
△ [self-screen:1/global screen: none]	1	Enter "1" when the ten-key pad is on the self-screen. Enter nothing when the ten-key pad is on a global screen.

■ Remark

- The [data listing lower/upper] specification is as shown below.
  Example) When "E100" is specified for [connected device]
  Lower: Input value "123" → "E100" value "123", "E101" to "E103" values "0"
  Upper: Input value "123" → "E100" value "0", "E101" to "E102" values "0", "E103" value "123"

3. CHARACTER DISPLAYS

Character displays Registered text display	Registered text display	D: About 200 bytes S: About 140 bytes

#CLM1001	#CLM1002	#CLM1003
#MLM1001	#MLM1002	#MLM1003
		
#CLM1004	#CLM1005	#CLM1006
#MLM1004	#MLM1005	#MLM1006
		
#CLM1007	#CLM1008	#CLM1009
#MLM1007	#MLM1008	#MLM1009
		
#CLM1010	#CLM1011	#CLM1012
#MLM1010	#MLM1011	#MLM1012
		

■ Function

- This part displays registered text according to the value of the connected device.
- The number of the registered text to display is decided by "connected device value" + "head No. of text".
- This part setup differs between "word device" and "bit device" to be connected.
  [For word device]
  - Registered text is displayed according to the number corresponding to the value of the connected device.

  [For bit device]
  - Registered text is displayed according to the offset number from the first device turned on. The first device is selected from "consecutive devices" started at the first connected device.

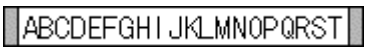
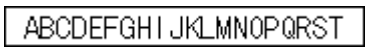
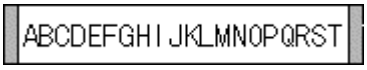
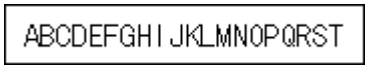
■ Operation parameters

Operation Parameter	Initial Value	Description
[Character indicator setup]		
○ [station No.]	01	Enter the name of the device that specifies the registered text number.
◎ [device name]		Enter the name of the device whose value is to be displayed. For a double-word device, enter the name of the first device.
○ [continuous device]	1	Word device: Enter 1. Bit device: Enter the number of bit devices to be used.
○ [data type]	BIN	Specify the type of each connected device.
○ [head No. of text]	1	Enter the number of the first registered text to display.
○ [color]	1 or 11	Specify the character color.

■ Remark

- The object text must be created and registered in advance.

Character displays ASCII text display	ASCII text display	D: About 520 bytes S: About 220 bytes

#CLM2001 #MLM2001	#CLM2002 #MLM2002	#CLM2003 #MLM2003
		
#CLM2004 #MLM2004	#CLM2005 #MLM2005	#CLM2006 #MLM2006
		
#CLM2007 #MLM2007	#CLM2008 #MLM2008	#CLM2009 #MLM2009
		
#CLM2010 #MLM2010	#CLM2011 #MLM2011	#CLM2012 #MLM2012
		

■ Function

- This part regards characters read from the first connected device as ASCII code ones and displays the text.

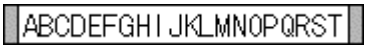
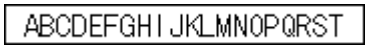
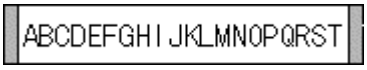
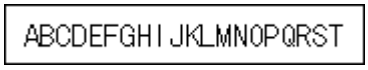
■ Operation parameters

Operation Parameter	Initial Value	Description
[Template setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [first device name]		Enter the name of the device from which characters are to be displayed.
○ [number of characters (full size)]	5 or 10	Specify the number of word devices from which characters are to be read.
○ [data listing lower:1/upper:2]	1	Specify the first character of the word device.

■ Remark

- Increase the number of characters to be controlled for display when it is more than the preset "number of characters read from PLC".
- The [data listing lower/upper] specification is as shown below.
  Lower: Connected device value "4142H" → character display "BA"
  Upper: Connected device value "4142H" → character display "AB"

Character displays Input text display	Input text display	D: About 1800 bytes S: About 330 bytes

#CLM3001	#CLM3002	#CLM3003
#MLM3001	#MLM3002	#MLM3003
		
#CLM3004	#CLM3005	#CLM3006
#MLM3004	#MLM3005	#MLM3006
		
#CLM3007	#CLM3008	#CLM3009
#MLM3007	#MLM3008	#MLM3009
		
#CLM3010	#CLM3011	#CLM3012
#MLM3010	#MLM3011	#MLM3012
		

■ Function

- This part regards characters read from the first connected device as ASCII code ones and displays the text.
- This part is combined with a "keyboard (input characters)" for use.
- Pressing this part opens the keyboard and the data entered from the keyboard is written in a PLC and displayed as characters.
- When "next part name" is specified, the cursor moves to the next input text part. This function is useful for specifying texts continuously.

■ Operation parameters

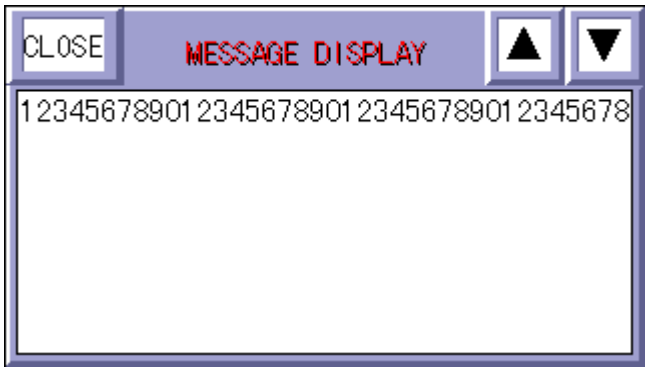
Operation Parameter	Initial Value	Description
[Template setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [first device name]		Enter the name of the first device from which characters are to be written and displayed.
○ [number of characters (full size)]	5 or 10	Specify the number of word devices from which characters are to be read.
○ [data listing lower:1/upper:2]	1	Specify the first character of the word device.
○ [display mode normal:1/fast: 2]	1	Specify the method for displaying the read bar-code text. "1": Displays a value after confirming that it is written in the PLC. "2": Displays a value before it is written in the PLC (fast display).
△ [next part name]		Specify the name of the part to which the cursor is to be moved. Enter nothing when no next part exists.
△ [screen name having keyboard]		Specify the name of the global screen when the keyboard is on a global screen. Enter nothing when the keyboard is on the self-screen.
◎ [keyboard name]		Specify the name of the keyboard.
△ [self screen:1/global screen: none]	1	Enter "1" when the keyboard is on the self-screen. Enter nothing when the keyboard is on a global screen.

■ Remark

- Increase the number of characters to be controlled for display when it is more than the preset "number of characters read from PLC".
- The [data listing lower/upper] specification is as shown below.
  Lower: Connected device value "4142H" → character display "BA"
  Upper: Connected device value "4142H" → character display "AB"

Character displays Registered text display with scroll	Registered text display with scroll	D: About 2700 bytes S: About 1080 bytes

#CAM4001
#MAM4001



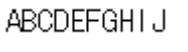
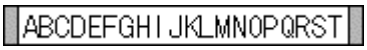
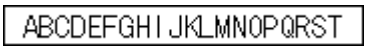
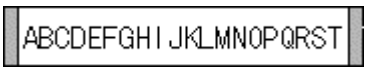
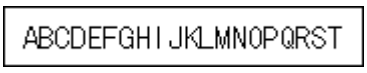
■ Function
- This part displays registered text corresponding to the data from another part.
- The number of the registered text to display is decided by "value sent to part" + "first registered text No.".
- Send data to this part using "PRINT" and "SEND" statements.
  Example) PRINT 1 SEND .B000.

■ Operation parameters

Operation Parameter	Initial Value	Description
[Template setup]		
○ [first registered text No.]	1	Specify the first number of the registered text to display.

■ Remark
- The object text must be created and registered in advance.

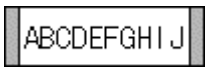
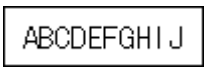
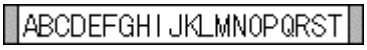
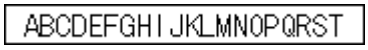
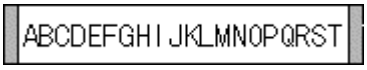
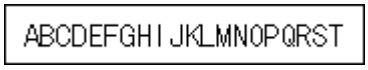
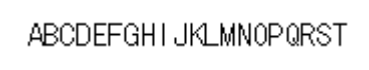
Character displays Bar-code display	Bar-code display	D: About 280 bytes S: About 130 bytes

#CGM5001 #MGM5001	#CGM5002 #MGM5002	#CGM5003 #MGM5003
		
#CGM5004 #MGM5004	#CGM5005 #MGM5005	#CGM5006 #MGM5006
		
#CGM5007 #MGM5007	#CGM5008 #MGM5008	#CGM5009 #MGM5009
		
#CGM5010 #MGM5010	#CGM5011 #MGM5011	#CGM5012 #MGM5012
		

■ Function

- This part displays the text read from a bar-code reader.

Character displays Input bar-code display	Input bar-code display	D: About 1500 bytes S: About 320 bytes

#CLM6301 #MLM6301	#CLM6302 #MLM6302	#CLM6303 #MLM6303
		
#CLM6304 #MLM6304	#CLM6305 #MLM6305	#CLM6306 #MLM6306
		
#CLM6307 #MLM6307	#CLM6308 #MLM6308	#CLM6309 #MLM6309
		
#CLM6310 #MLM6310	#CLM6311 #MLM6311	#CLM6312 #MLM6312
		

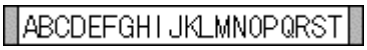
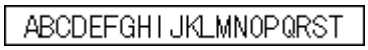
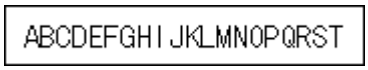
■ Function
- This character display displays a bar-code text and writes the text in a PLC as ASCII code data.
- Pressing the part enables bar-code data to be entered.

■ Operation parameters

Operation Parameter	Initial Value	Description
[Template setup]		
○ [station No.]	01	Enter the name of the PLC station number.
◎ [first device name]		Enter the name of the first device in which the text is to be written.
○ [number of characters (full size)]	5 or 10	Specify the number of byte devices in which data is to be written.
○ [data listing lower:1/upper:2]	1	Specify the first character of the word device.
○ [display mode normal:1/fast: 2]	1	Specify the method for displaying the read bar-code text. "1": Displays a value after confirming that it is written in the PLC. "2": Displays a value before it is written in the PLC (fast display).

■ Remark
- When the number of characters is more than the preset [number of characters], increase the number of characters for display controlling.
- The [data listing lower/upper] specification is as shown below.
  Lower: Connected device value "4142H" → character display "BA"
  Upper: Connected device value "4142H" → character display "AB"

Character displays ASCII text display (byte) dedicated to byte devices	ASCII text display (byte)	D: About 760 bytes S: About 260 bytes

#CLM6101 #MLM6101	#CLM6102 #MLM6102	#CLM6103 #MLM6103
		
#CLM6104 #MLM6104	#CLM6105 #MLM6105	#CLM6106 #MLM6106
		
#CLM6107 #MLM6107	#CLM6108 #MLM6108	#CLM6109 #MLM6109
		
#CLM6110 #MLM6110	#CLM6111 #MLM6111	#CLM6112 #MLM6112
		

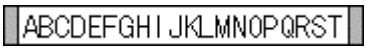
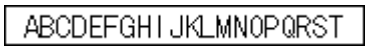
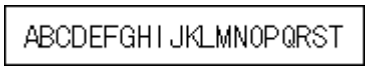
■ Function
- This part is used only for a PLC having byte devices.
- This part regards characters read from the first connected device as ASCII code ones and displays them as a text.

■ Operation parameters

Operation Parameter	Initial Value	Description
[Template setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [first device name]		Enter the name of the first device from which characters are to be displayed.
○ [number of characters]	10 or 20	Specify the number of byte devices from which characters are to be read.

■ Remark
- Increase the number of characters to be controlled for display when it is more than the preset "number of characters read from PLC".

Character displays Input text display (byte) dedicated to byte devices	Input text display (byte)	D: About 1800 bytes S: About 400 bytes

#CLM6201 #MLM6201	#CLM6202 #MLM6202	#CLM6203 #MLM6203
		
#CLM6204 #MLM6204	#CLM6205 #MLM6205	#CLM6206 #MLM6206
		ABCDEFGHIJ
#CLM6207 #MLM6207	#CLM6208 #MLM6208	#CLM6209 #MLM6209
		
#CLM6210 #MLM6210	#CLM6211 #MLM6211	#CLM6212 #MLM6212
		ABCDEFGHIJKLMNOPQRST

■ Function

- This part is used only for a PLC having byte devices.
- This part regards characters read from the first connected device as ASCII code ones and displays them as a text.
- This part is combined with a "keyboard (input characters)" for use.
- Pressing this part opens the keyboard and the data entered from the keyboard is written in a PLC and displayed as characters.
- When "next part name" is specified, the cursor moves to the next input text part. This function is useful for specifying texts continuously.

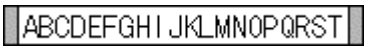
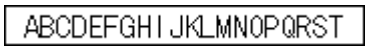
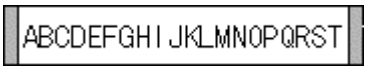
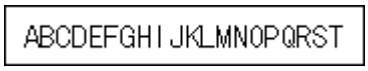
■ Operation parameters

Operation Parameter	Initial Value	Description
[Template setup]		
○ [station No.]	1	Enter the PLC station number.
◎ [first device name]		Enter the name of the first device from which characters are to be written and displayed.
○ [number of characters]	10 or 20	Specify the number of byte devices from which characters are to be read.
○ [display mode normal:1/fast: 2]	1	Specify the method for displaying the read bar-code text. "1": Displays a value after confirming that it is written in the PLC. "2": Displays a value before it is written in the PLC (fast display).
△ [next part name]		Specify the name of the part to which the cursor is to be moved. Enter nothing when no next part exists.
△ [screen name having keyboard]		Specify the name of the global screen when the keyboard is on a global screen. Enter nothing when the keyboard is on the self-screen.
◎ [keyboard name]		Specify the name of the keyboard.
△ [self screen:1/global screen: none]	1	Enter "1" when the keyboard is on the self-screen. Enter nothing when the keyboard is on a global screen.

■ Remark

- Increase the number of characters to be controlled for display when it is more than the preset "number of characters" read from the PLC.

Character displays Input bar-code display (byte) dedicated for byte devices	Input bar-code display (byte)	D: About 1500 bytes S: About 320 bytes

#CLM6301	#CLM6302	#CLM6303
#MLM6301	#MLM6302	#MLM6303
		
#CLM6304	#CLM6305	#CLM6306
#MLM6304	#MLM6305	#MLM6306
		
#CLM6307	#CLM6308	#CLM6309
#MLM6307	#MLM6308	#MLM6309
		
#CLM6310	#CLM6311	#CLM6312
#MLM6310	#MLM6311	#MLM6312
		

■ Function
- This character display is dedicated for an PLC having byte devices.
- This character display displays a bar-code text and writes the text in a PLC as ASCII code data.
- Pressing the part enables bar-code data to be entered.

■ Operation parameters

Operation Parameter	Initial Value	Description
[Template setup]		
○ [station No.]	01	Enter the name of the PLC station number.
◎ [first device name]		Enter the name of the first device in which the text is to be written.
○ [number of characters]	10 or 20	Specify the number of byte devices in which data is to be written.
○ [display mode normal:1/fast: 2]	1	Specify the method for displaying the read bar-code text. "1": Displays a value after confirming that it is written in the PLC. "2": Displays a value before it is written in the PLC (fast display).

■ Remark
- When the number of characters is more than the preset [number of characters], increase the number of characters for display controlling.

4. LAMPS

Lamps LED	**LED**	D: About 160 bytes S: About 110 bytes

#CLL1001	#CLL1002	#CLL1003	#CLL1004	#CLL1005	#CLL1006	#CLL1007	#CLL1008
#MLL1001			#MLL1004			#MLL1007	
							

#CLL1009	#CLL1010	#CLL1011	#CLL1012	#CLL1013	#CLL1014	#CLL1015	#CLL1016
	#MLL1010			#MLL1013			#MLL1016
							

#CLL1017	#CLL1018	#CLL1019	#CLL1020	#CLL1021	#CLL1022	#CLL1023	#CLL1024
			#MLL1020			#MLL1023	
							

#CLL1025	#CLL1026	#CLL1027	#CLL1028	#CLL1029	#CLL1030	#CLL1031	#CLL1032
	#MLL1026			#MLL1029			#MLL1032
							

#CLL1033	#CLL1034	#CLL1035	#CLL1036	#CLL1037			
		#MLL1035					
							

■ Function
- This part comes on when the connected device value is 1 and goes off when the value is 0.
- When this part is on, the “Color when OFF” in this part is changed to the “Color when ON”. (Color parts)

■ Operation parameters

Operation Parameter	Initial Value	Description
[Lamp setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [device name]		Enter the name of the device that turns on/off the lamp.
○ [data type]	BIN	Specify the type of the connected device.
○ [Color when ON]	-	Specify the ON time color of the lamp.
○ [Color when OFF]	-	Specify the OFF time color of the lamp. For a color part, change the color to be used in the part, as well.

■ Remark
- For a color part, the lamp does not come on unless the part is drawn with the same color as the “Color when OFF”.

Lamps Mark lamp	**Mark lamp**	D: About 170 bytes S: About 110 bytes

#CLL2001	#CLL2002	#CLL2003	#CLL2004	#CLL2005	#CLL2006	#CLL2007	#CLL2008
#MLL2001	#MLL2002	#MLL2003	#MLL2004	#MLL2005	#MLL2006	#MLL2007	#MLL2008
							

#CLL2009	#CLL2010	#CLL2011	#CLL2012	#CLL2013	#CLL2014	#CLL2015	#CLL2016
#MLL2009	#MLL2010	#MLL2011	#MLL2012	#MLL2013	#MLL2014	#MLL2015	#MLL2016
							

#CLL2017	#CLL2018	#CLL2019	#CLL2020	#CLL2021	#CLL2022	#CLL2023	#CLL2024
#MLL2017	#MLL2018	#MLL2019	#MLL2020	#MLL2021	#MLL2022	#MLL2023	#MLL2024
							

#CLL2025	#CLL2026	#CLL2027	#CLL2028	#CLL2029	#CLL2030	#CLL2031	#CLL2032
#MLL2025	#MLL2026	#MLL2027	#MLL2028	#MLL2029	#MLL2030	#MLL2031	#MLL2032
							

■ Function
- This part comes on when the connected device value is 1 and goes off when the value is 0.
- When this part is on, the “Color when OFF” in this part is changed to the “Color when ON”. (Color parts)

■ Operation parameters

Operation Parameter	Initial Value	Description
[Lamp setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [device name]		Enter the name of the device that turns on/off the lamp.
○ [data type]	BIN	Specify the type of the connected device.
○ [Color when ON]	-	Specify the ON time color of the lamp.
○ [Color when OFF]	-	Specify the OFF time color of the lamp. For a color part, change the color to be used in the part, as well.

■ Remark
- For a color part, the lamp does not come on unless the part is drawn with the same color as the “Color when OFF”.

Lamps Name plate Lamp	**Name plate Lamp**	D: About 190bytes S: About 110 bytes

#CLL3001	#CLL3002	#CLL3003	#CLL3004	#CLL3005	#CLL3006	#CLL3007	#CLL3008
#MLL3001	#MLL3002	#MLL3003	#MLL3004	#MLL3005	#MLL3006	#MLL3007	#MLL3008
	RUNNING	OPERA-TION	PROCESS-SING	STOP	STAND-BY	FORWARD	REVERSE
#CLL3009	#CLL3010	#CLL3011	#CLL3012	#CLL3013	#CLL3014	#CLL3015	#CLL3016
#MLL3009	#MLL3010	#MLL3011	#MLL3012	#MLL3013	#MLL3014	#MLL3015	#MLL3016
UP	DOWN	ROTATE	ACCELE-RATE	DEACCELE-RATE	ERROR	WARNING	CHECK
#CLL3017	#CLL3018	#CLL3019	#CLL3020	#CLL3021	#CLL3022	#CLL3023	#CLL3024
#MLL3017	#MLL3018	#MLL3019	#MLL3020	#MLL3021	#MLL3022	#MLL3023	#MLL3024
INSPECT	CARRY	STIR	STANDING	DIS-INFECT	WASH	DEHYD-RATE	MEASURE
#CLL3025	#CLL3026	#CLL3027	#CLL3028	#CLL3029	#CLL3030	#CLL3031	#CLL3032
#MLL3025	#MLL3026	#MLL3027	#MLL3028	#MLL3029	#MLL3030	#MLL3031	#MLL3032
READ	WRITE	VALID	INVALID	CARRY-IN	CARRY-OUT	CAUTION	DENGER
#CLL3033	#CLL3034	#CLL3035	#CLL3036	#CLL3037	#CLL3038	#CLL3039	#CLL3040
#MLL3033	#MLL3034	#MLL3035	#MLL3036	#MLL3037	#MLL3038	#MLL3039	#MLL3040
WARM	COOL	HUMIDIFY	DEHUMI-DIFY	HEAT	FREEZE	COM-PRESS	DECOM-PRESS

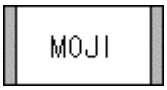
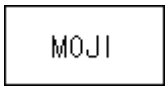
■ Function
- This part comes on when the connected device value is 1 and goes off when the value is 0.
- When this part is on, the “Color when OFF” in this part is changed to the “Color when ON”. (Color parts)

■ Operation parameters

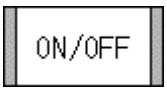
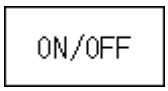
Operation Parameter	Initial Value	Description
[Lamp setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [device name]		Enter the name of the device that turns on/off the lamp.
○ [data type]	BIN	Specify the type of the connected device.
○ [Color when ON]	-	Specify the ON time color of the lamp.
○ [Color when OFF]	-	Specify the OFF time color of the lamp. For a color part, change the “background color” of the part, as well.

■ Remark
- For a color part, the lamp does not come on unless the same color is used for both “background color” and the “Color when OFF” set for “Property of arrangement part”.

Lamps Name plate setup lamp	**Name plate setup lamp**	D: About 310 bytes S: About 220 bytes

#CLL4001	#CLL4002	#CLL4003
#MLL4001	#MLL4002	#MLL4003
		

Lamps Name plate setup lamp	**Lamp with ON/OFF variable name plate**	D: About 310 bytes S: About 220 bytes

#CLL4004	#CLL4005	#CLL4005
#MLL4004	#MLL4005	#MLL4005
		

■ Function
- This part comes on when the connected device value is 1 and goes off when the value is 0.
- The name plate can be set up with “operation parameters”.
- When this part is on, the “Color when OFF” in this part is changed to the “Color when ON”. (Color parts)

■ Operation parameters

Operation Parameter	Initial Value	Description
[Lamp setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [device name]		Enter the name of the device that turns on/off the lamp.
○ [data type]	BIN	Specify the type of the connected device.
○ [Color when ON]	-	Specify the ON time color of the lamp.
○ [Color when OFF]	-	Specify the OFF time color of the lamp. For a color part, change the “background color” of the part, as well.

[Name plate setup lamp]

Operation Parameter	Initial Value	Description
[Template setup]		
○ [name plate character]	“Operate”	Enter the name plate characters to display.

[Lamp with ON/OFF variable name plate]

Operation Parameter	Initial Value	Description
[Template setup]		
○ [OFF time name plate character]	“OFF”	Enter the name plate characters to be displayed at OFF time.
○ [ON time name plate character]	“ON”	Enter the name plate characters to be displayed at ON time.

■ Remark
- For a color part, the lamp does not come on unless the same color is used for both the “background color” and the “Color when OFF” set for “Property of arrangement part”.

Lamps Piping lamp	**Piping lamp**	D: About 160 bytes S: About 130 bytes

#CLL5001	#CLL5002	#CLL5003	#CLL5004	#CLL5005	#CLL5006	#CLL5007	#CLL5008
#MLL5001	#MLL5002	#MLL5003	#MLL5004	#MLL5005	#MLL5006	#MLL5007	#MLL5008
							

#CLL5009	#CLL5010	#CLL5011					
#MLL5009	#MLL5010	#MLL5011					
							

■ Function
- This part comes on when the connected device value is 1 and goes off when the value is 0.

■ Operation parameters

Operation Parameter	Initial Value	Description
[Pipe setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [device name]		Enter the name of the device that turns on/off the pipe.
○ [device type]	Word	Fixed to “word” (also for bit devices).
○ [data type]	BIN	Specify the type of the connected device.

■ Remark
- When changing the frame color and the ON/OFF time color of a pipe, use “Details edit” of the pipes.

Lamps Piping lamp	**Piping lamp**	D: About 260 bytes S: About 110 bytes

#CLL5101	#CLL5102	#CLL5103	#CLL5104	#CLL5105	#CLL5106	#CLL5107	#CLL5108
#MLL5101	#MLL5102	#MLL5103	#MLL5104	#MLL5105	#MLL5106	#MLL5107	#MLL5108
							
#CLL5109	#CLL5110	#CLL5111	#CLL5112	#CLL5113	#CLL5114	#CLL5115	#CLL5116
#MLL5109	#MLL5110	#MLL5111	#MLL5112	#MLL5113	#MLL5114	#MLL5115	#MLL5116
							

■ Function
- This lamp (valve) comes on when the connected device value is 1 and goes off when the value is 0.
- When this lamp is turned on, the “Color when OFF” in the lamp is changed to the “Color when ON”. (Color parts)

■ Operation parameters

[Color parts]

Operation Parameter	Initial Value	Description
[Lamp setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [device name]		Enter the name of the device that turns on/off the lamp.
○ [data type]	BIN	Specify the type of the connected device.
○ [Color when ON]	-	Specify the ON time color.
○ [Color when OFF]	-	Specify the OFF time color. For a color part, change the color drawn in the part, as well.

[Monochrome parts]

Operation Parameter	Initial Value	Description
[Template setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [device name]		Enter the name of the device that turns on/off the lamp.

■ Remark
- For a color part, the part is not turned on unless the same color as the “Color when OFF” is used in the part.

Lamp For each bit of a word LED (for word)	**LED(for each bit of a word device)**	D: About 290 bytes S: About 110 bytes

#CLL6101	#CLL6102	#CLL6103	#CLL6104	#CLL6105	#CLL6106	#CLL6107	#CLL6108
#MLL6101			#MLL6104			#MLL6107	
							

#CLL6109	#CLL6110	#CLL6111	#CLL6112	#CLL6113	#CLL6114	#CLL6115	#CLL6116
	#MLL6110			#MLL6113			#MLL6116
							

#CLL6117	#CLL6118	#CLL6119	#CLL6120	#CLL6121	#CLL6122	#CLL6123	#CLL6124
			#MLL6120			#MLL6123	
							

#CLL6125	#CLL6126	#CLL6127	#CLL6128	#CLL6129	#CLL6130	#CLL6131	#CLL6132
	#MLL6126			#MLL6129			#MLL6132
							

#CLL6133	#CLL6134	#CLL6135	#CLL6136	#CLL6137			
		#MLL6135					
							

■ Function
- A LED lamp comes on for "1" and goes off for "0" set in a given bit of a connected word device respectively.
- When this LED lamp is turned on, the "Color when OFF" of "lamp control" in the part is changed to "Color when ON". (Color parts)

■ Operation parameters

Operation Parameter	Initial Value	Description
[Template setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [device name (word)]		Enter the name of the word device that turns ON/OFF the lamp.
○ [bit position]		Specify the position (0-15) of the monitoring bit in the word device.

■ Remark
- For a color part, the lamp does not come on unless the part uses the same color as "Color when OFF" of "lamp control".

Lamp For each bit of a word Mark lamp (for word)	**Mark lamp (for each bit of a word device)**	D: About 270 bytes S: About 110 bytes

#CLL6201	#CLL6202	#CLL6203	#CLL6204	#CLL6205	#CLL6206	#CLL6207	#CLL6208
#MLL6201	#MLL6202	#MLL6203	#MLL6204	#MLL6205	#MLL6206	#MLL6207	#MLL6208
							

#CLL6209	#CLL6210	#CLL6211	#CLL6212	#CLL6213	#CLL6214	#CLL6215	#CLL6216
#MLL6209	#MLL6210	#MLL6211	#MLL6212	#MLL6213	#MLL6214	#MLL6215	#MLL6216
							

#CLL6217	#CLL6218	#CLL6219	#CLL6220	#CLL6221	#CLL6222	#CLL6223	#CLL6224
#MLL6217	#MLL6218	#MLL6219	#MLL6220	#MLL6221	#MLL6222	#MLL6223	#MLL6224
							

#CLL6225	#CLL6226	#CLL6227	#CLL6228	#CLL6229	#CLL6230	#CLL6231	#CLL6232
#MLL6225	#MLL6226	#MLL6227	#MLL6228	#MLL6229	#MLL6230	#MLL6231	#MLL6232
							

■ Function
- This mark lamp comes on for "1" and goes off for "0" set in a given bit of a connected word device respectively.
- When this lamp is turned on, the "Color when OFF" of "lamp control" in the part is changed to "Color when ON". (Color parts)

■ Operation parameters

Operation Parameter	Initial Value	Description
[Template setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [device name (word)]		Enter the name of the word device that turns ON/OFF the lamp.
○ [bit position]		Specify the position (0~15) of the monitoring bit in the word device.

■ Remark
- For a color part, the lamp does not come on unless the part uses the same color as "Color when OFF" of "lamp control".

Lamp For each bit of a word Name plate lamp(for word)	**Name plate lamp (for each bit of a word device)**	D: About 400 bytes S: About 110 bytes

#CLL6301	#CLL6302	#CLL6303	#CLL6304	#CLL6305	#CLL6306	#CLL6307	#CLL6308
#MLL6301	#MLL6302	#MLL6303	#MLL6304	#MLL6305	#MLL6306	#MLL6307	#MLL6308
	RUNNING	OPERA-TION	PROCES-SING	STOP	STAND-BY	FORWARD	REVERSE
#CLL6309	#CLL6310	#CLL6311	#CLL6312	#CLL6313	#CLL6314	#CLL6315	#CLL6316
#MLL6309	#MLL6310	#MLL6311	#MLL6312	#MLL6313	#MLL6314	#MLL6315	#MLL6316
UP	DOWN	ROTATE	ACCELE-RATE	DEACCELE-RATE	ERROR	WARNING	CHECK
#CLL6317	#CLL6318	#CLL6319	#CLL6320	#CLL6321	#CLL6322	#CLL6323	#CLL6324
#MLL6317	#MLL6318	#MLL6319	#MLL6320	#MLL6321	#MLL6322	#MLL6323	#MLL6324
INSPECT	CARRY	STIR	STANDING	DIS-INFECT	WASH	DEHYD-RATE	MEASURE
#CLL6325	#CLL6326	#CLL6327	#CLL6328	#CLL6329	#CLL6330	#CLL6331	#CLL6332
#MLL6325	#MLL6326	#MLL6327	#MLL6328	#MLL6329	#MLL6330	#MLL6331	#MLL6332
READ	WRITE	VALID	INVALID	CARRY-IN	CARRY-OUT	CAUTION	DENGER
#CLL6333	#CLL6334	#CLL6335	#CLL6336	#CLL6337	#CLL6338	#CLL6339	#CLL6340
#MLL6333	#MLL6334	#MLL6335	#MLL6336	#MLL6337	#MLL6338	#MLL6339	#MLL6340
WARM	COOL	HUMIDIFY	DEHUMI-DIFY	HEAT	FREEZE	COM-PRESS	DECOM-PRESS

■ Function

- This lamp comes on for "1" and goes off for "0" set in a given bit of a connected word device respectively.
- When this part is turned on, the "Color when OFF" of "lamp control" in the part is changed to "Color when ON". (Color parts)

■ Operation parameters

Operation Parameter	Initial Value	Description
[Template setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [device name (word)]		Enter the name of the word device that turns ON/OFF the lamp.
○ [bit position]		Specify the position (0-15) of the monitoring bit in the word device.

■ Remark

- For a color part, the lamp does not come on unless the part uses the same color as "Color when OFF" of "lamp control".

5. SWITCHES

Switches Mark switch	**Mark switch**	D: About 210 bytes S: About 150 bytes

#CLS1001	#CLS1002	#CLS1003	#CLS1004	#CLS1005	#CLS1006	#CLS1007	#CLS1008
#MLS1001		#MLS1003	#MLS1004	#MLS1005	#MLS1006	#MLS1007	#MLS1008
							
#CLS1009	#CLS1010	#CLS1011	#CLS1012	#CLS1013	#CLS1014	#CLS1015	#CLS1016
#MLS1009	#MLS1010	#MLS1011	#MLS1012	#MLS1013	#MLS1014	#MLS1015	#MLS1016
							
#CLS1017	#CLS1018	#CLS1019	#CLS1020	#CLS1021	#CLS1022	#CLS1023	#CLS1024
#MLS1017	#MLS1018	#MLS1019	#MLS1020	#MLS1021	#MLS1022	#MLS1023	#MLS1024
							
#CLS1025	#CLS1026	#CLS1027	#CLS1028	#CLS1029	#CLS1030	#CLS1031	#CLS1032
#MLS1025	#MLS1026	#MLS1027	#MLS1028	#MLS1029	#MLS1030	#MLS1031	#MLS1032
							

■ Function
- This switch sends its ON/OFF status to the connected device.
- This switch is a momentary one. To change the switch type to an alternate one, change “TYPE” to “Alternate” in “Details edit” of the switches.

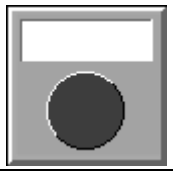
■ Operation parameters

Operation Parameter	Initial Value	Description
[Switch setting]		
○ [station No.]	01	Enter the PLC station number.
◎ [device name]		Enter the name of the device in which the switch ON/OFF status is to be written.
○ [synchronize and operate]	None	YES: Changes the display according to the switch ON/OFF status. NO: Changes the display by confirming that the PLC value is changed.
○ [Write when ON]	1	Enter the value to be written at ON time.
○ [Write when OFF]	0	Enter the value to be written at OFF time.

■ Remark
- To change the ON time display color, change “Background : Color when ON” with “Details edit” of the switches.
- To change the OFF time display color, change “Background : Color when OFF” with “Details edit” of the switches, then change the part color or the “background color” set in “Property of arrangement parts” to the same color.

Switches Mark switch	**Mark switch**	D: About 210 bytes S: About 150 bytes

#CLS1033	#CLS1034	#CLS1035	#CLS1036	#CLS1037	#CLS1038	#CLS1039	#CLS1040
#MLS1033	#MLS1034	#MLS1035	#MLS1036	#MLS1037	#MLS1038	#MLS1039	#MLS1040
							
#CLS1041	#CLS1042	#CLS1043	#CLS1044	#CLS1045	#CLS1046	#CLS1047	#CLS1048
#MLS1041	#MLS1042	#MLS1043	#MLS1044				
							

#CLS1049			
#MLS1049			
			

■ Function
- This switch sends its ON/OFF status to the connected device.
- This switch is a momentary one. To change the switch type to an alternate one, change “TYPE” to “Alternate” in “Details edit” of the switches.

■ Operation parameters

Operation Parameter	Initial Value	Description
[Switch setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [device name]		Enter the name of the device in which the switch ON/OFF status is to be written.
○ [synchronize and operate]	None	YES: Changes the display according to the switch ON/OFF status. NO: Changes the display by confirming that the PLC value is changed.
○ [Write when ON]	1	Enter the value to be written at ON time.
○ [Write when OFF]	0	Enter the value to be written at OFF time.

■ Remark
- To change the ON time display color, change “Background : Color when ON” with “Details edit” of the switches.
- To change the OFF time display color, change “Background : Color when OFF” with “Details edit” of the switches, then change the part color or the “background color” set in “Property of arrangement parts” to the same color.

Switches Mark switch with monitor	**Mark switch with monitor**	D: About 260 bytes S: About 180 bytes

#CLS2001	#CLS2002	#CLS2003	#CLS2004	#CLS2005	#CLS2006	#CLS2007	#CLS2008
#MLS2001		#MLS2003	#MLS2004	#MLS2005	#MLS2006	#MLS2007	#MLS2008
							

#CLS2009	#CLS2010	#CLS2011	#CLS2012	#CLS2013	#CLS2014	#CLS2015	#CLS2016
#MLS2009	#MLS2010	#MLS2011	#MLS2012	#MLS2013	#MLS2014	#MLS2015	#MLS2016
							

#CLS2017	#CLS2018	#CLS2019	#CLS2020	#CLS2021	#CLS2022	#CLS2023	#CLS2024
#MLS2017	#MLS2018	#MLS2019	#MLS2020	#MLS021	#MLS2022	#MLS2023	#MLS2024
							

#CLS2025	#CLS2026	#CLS2027	#CLS2028	#CLS2029	#CLS2030	#CLS2031	#CLS2032
#MLS2025	#MLS2026	#MLS2027	#MLS2028	#MLS2029	#MLS2030	#MLS2031	#MLS2032
							

■ Function

- This switch sends its ON/OFF status to the connected device and displays the ON/OFF status according to the status change of the lamp connected device.
- This switch is a momentary one. To change the switch type to an alternate one, change “TYPE” to “Alternate” with “Details edit” of the switches.

■ Operation parameters

Operation Parameter	Initial Value	Description
[Lamp setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [device name]		Enter the name of the device that turns ON/OFF the lamp display.
○ [data type]	BIN	Specify the type of the connected device.
○ [Color when ON]	-	Specify the ON time color.
○ [Color when OFF]	-	Specify the OFF time color. For a color part, change the part color, as well.

Operation Parameter	Initial Value	Description
[Switch setting]		
○ [station No.]	01	Enter the PLC station number.
◎ [device name]		Enter the name of the device in which the switch ON/OFF status is to be written.
○ [synchronize and operate]	None	Fixed to “NO”.
○ [Write when ON]	1	Enter the value to be written at ON time.
○ [Write when OFF]	-	Enter the value to be written at OFF time.

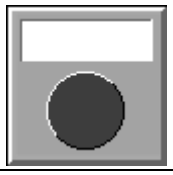
■ Remark

- For a color part, the part is not turned on unless the part is drawn with the same color as that of the “Color when OFF” set for “lamp setup”.

Switches Mark switch with monitor	**Mark switch with monitor**	D: About 260 bytes S: About 180 bytes

#CLS2033	#CLS2034	#CLS2035	#CLS2036	#CLS2037	#CLS2038	#CLS2039	#CLS2040
#MLS2033	#MLS2034	#MLS2035	#MLS2036	#MLS2037	#MLS2038	#MLS2039	#MLS2040
							

#CLS2041	#CLS2042	#CLS2043	#CLS2044	#CLS2045	#CLS2046	#CLS2047	#CLS2048
#MLS2041	#MLS2042	#MLS2043	#MLS2044				
							

#CLS2049	#CLS2050		
#MLS2049	#MLS2050		
			

■ Function

- This switch sends its ON/OFF status to the connected device and displays the ON/OFF status according to the status change of the lamp connected device.
- This switch is a momentary one. To change the switch type to an alternate one, change "TYPE" to "Alternate" with "Details edit" of the switches.

■ Operation parameters

Operation Parameter	Initial Value	Description
[Lamp setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [device name]		Enter the name of the device that turns ON/OFF the lamp display.
○ [data type]	BIN	Specify the type of the connected device.
○ [Color when ON]	-	Specify the ON time color.
○ [Color when OFF]	-	Specify the OFF time color. For a color part, change the part color, as well.

Operation Parameter	Initial Value	Description
[Switch setting]		
○ [station No.]	01	Enter the PLC station number.
◎ [device name]		Enter the name of the device in which the switch ON/OFF status is to be written.
○ [synchronize and operate]	None	Fixed to "NO".
○ [Write when ON]	1	Enter the value to be written at ON time.
○ [Write when OFF]	-	Enter the value to be written at OFF time.

■ Remark

- For a color part, the part is not turned on unless the part is drawn with the same color as that of the "Color when OFF" set for "lamp setup".

Switches Name plate switch	**Name plate switch**	D: About 220 bytes S: About 150 bytes

#CLS3001	#CLS3002	#CLS3003	#CLS3004	#CLS3005	#CLS3006	#CLS3007	#CLS3008
#MLS3001	#MLS3002	#MLS3003	#MLS3004	#MLS3005	#MLS3006	#MLS3007	#MLS3008
	SET	RESET	CLEAR	START	STOP	UP	DOWN
#CLS3009	#CLS3010	#CLS3011	#CLS3012	#CLS3013	#CLS3014	#CLS3015	#CLS3016
#MLS3009	#MLS3010	#MLS3011	#MLS3012	#MLS3013	#MLS3014	#MLS3015	#MLS3016
START	STOP	SETUP	END	MANUAL	AUTO	ORIGIN	ERROR
#CLS3017	#CLS3018	#CLS3019	#CLS3020	#CLS3021	#CLS3022	#CLS3023	#CLS3024
#MLS3017	#MLS3018	#MLS3019	#MLS3020	#MLS3021	#MLS3022	#MLS3023	#MLS3024
RUN	ROTATE	FORWARD	REVERSE	READ	WRITE	UP	DOWN

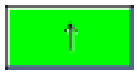
■ Function
- This switch sends its ON/OFF status to the connected device.
- This switch is a momentary one. To change the switch type to an alternate one, change “TYPE” to “Alternate” with “Details edit” of the switches.

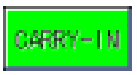
■ Operation parameters

Operation Parameter	Initial Value	Description
[Switch setting]		
○ [station No.]	01	Enter the PLC station number.
◎ [device name]		Enter the name of the device in which the switch ON/OFF status is to be written.
○ [synchronize and operate]	None	YES: Changes the display according to the switch ON/OFF status. NO: Changes the display by confirming that the PLC value is changed.
○ [Write when ON]	1	Enter the value to be written at ON time.
○ [Write when OFF]	0	Enter the value to be written at OFF time.

■ Remark
- To change the ON time display color, change “Background : Color when ON” with “Details edit” of the switches.
- To change the OFF time display color, change “Background : Color when OFF” with “Details edit” of the switches, then change the part color or the “background color” set for “Property of arrangement parts” to the same color.

Switches Name plate switch	**Name plate switch**	D: About 220 bytes S: About 150 bytes

#CLS3025	#CLS3026	#CLS3027	#CLS3028	#CLS3029	#CLS3030	#CLS3031	#CLS3032
#MLS3025	#MLS3026	#MLS3027	#MLS3028	#MLS3029	#MLS3030	#MLS3031	#MLS3032
							

#CLS3033	#CLS3034	#CLS3035	#CLS3036	#CLS3037	#CLS3038	#CLS3039	#CLS3040
#MLS3033	#MLS3034	#MLS3035	#MLS3036	#MLS3037	#MLS3038	#MLS3039	#MLS3040
							

#CLS3041	#CLS3042	#CLS3043	#CLS3044	#CLS3045	#CLS3046	#CLS3047	#CLS3048
#MLS3041	#MLS3042	#MLS3043	#MLS3044	#MLS3045	#MLS3046	#MLS3047	#MLS3048
							

■ Function

- This switch sends its ON/OFF status to the connected device.
- This switch is a momentary one. To change the switch type to an alternate one, change “TYPE” to “Alternate” with “Details edit” of the switches.

■ Operation parameters

Operation Parameter	Initial Value	Description
[Switch setting]		
○ [station No.]	01	Enter the PLC station number.
◎ [device name]		Enter the name of the device in which the switch ON/OFF status is to be written.
○ [synchronize and operate]	None	YES: Changes the display according to the switch ON/OFF status. NO: Changes the display by confirming that the PLC value is changed.
○ [Write when ON]	1	Enter the value to be written at ON time.
○ [Write when OFF]	0	Enter the value to be written at OFF time.

■ Remark

- To change the ON time display color, change “Background : Color when ON” with “Details edit” of the switches.
- To change the OFF time display color, change “Background : Color when OFF” with “Details edit” of the switches, then change the part color or the “background color” set for “Property of arrangement parts” to the same color.

Switches Name plate switch with monitor	**Name plate switch with monitor**	D: About 270 bytes S: About 180 bytes

#CLS4001	#CLS4002	#CLS4003	#CLS4004	#CLS4005	#CLS4006	#CLS4007	#CLS4008
#MLS4001	#MLS4002	#MLS4003	#MLS4004	#MLS4005	#MLS4006	#MLS4007	#MLS4008
	SET	RESET	CLEAR	START	STOP	UP	DOWN

#CLS4009	#CLS4010	#CLS4011	#CLS4012	#CLS4013	#CLS4014	#CLS4015	#CLS4016
#MLS4009	#MLS4010	#MLS4011	#MLS4012	#MLS4013	#MLS4014	#MLS4015	#MLS4016
START	STOP	SETUP	END	MANUAL	AUTO	ORIGIN	ERROR

#CLS4017	#CLS4018	#CLS4019	#CLS4020	#CLS4021	#CLS4022	#CLS4023	#CLS4024
#MLS4017	#MLS4018	#MLS4019	#MLS4020	#MLS4021	#MLS4022	#MLS4023	#MLS4024
RUN	ROTATE	FORWARD	REVERSE	READ	WRITE	UP	DOWN

■ Function

- This switch sends its ON/OFF status to the connected device and displays the ON/OFF status according to the status change of the lamp connected device.
- This switch is a momentary one. To change the switch type to an alternate one, change “TYPE” to “ALTERNATE” in “Details edit” of the switches.

■ Operation parameters

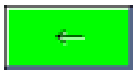
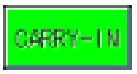
Operation Parameter	Initial Value	Description
[Lamp setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [device name]		Enter the name of the device that turns ON/OFF the lamp display.
○ [data type]	BIN	Specify the type of the connected device.
○ [Color when ON]	-	Specify the ON time color.
○ [Color when OFF]	-	Specify the OFF time color. For a color part, change the part color, as well.

Operation Parameter	Initial Value	Description
[Switch setting]		
○ [station No.]	01	Enter the PLC station number.
◎ [device name]		Enter the name of the device in which the switch ON/OFF status is to be written.
○ [synchronize and operate]	None	Fixed to “NO”.
○ [Write when ON]	1	Enter the value to be written at ON time.
○ [Write when OFF]	-	Enter the value to be written at OFF time.

■ Remark

- Change both the “Color when OFF” of “lamp setting” and the “background color” of “Property of arrangement parts” to the same color.

Switches Name plate switch with monitor	**Name plate switch with monitor**	D: About 270 bytes S: About 180 bytes

#CLS4025	#CLS4026	#CLS4027	#CLS4028	#CLS4029	#CLS4030	#CLS4031	#CLS4032
#MLS4025	#MLS4026	#MLS4027	#MLS4028	#MLS4029	#MLS4030	#MLS4031	#MLS4032
							
#CLS4033	#CLS4034	#CLS4035	#CLS4036	#CLS4037	#CLS4038	#CLS4039	#CLS4040
#MLS4033	#MLS4034	#MLS4035	#MLS4036	#MLS4037	#MLS4038	#MLS4039	#MLS4040
							
#CLS4041	#CLS4042	#CLS4043	#CLS4044	#CLS4045	#CLS4046	#CLS4047	#CLS4048
#MLS4041	#MLS4042	#MLS4043	#MLS4044	#MLS4045	#MLS4046	#MLS4047	#MLS4048
							

■ Function

- This switch sends its ON/OFF status to the connected device and displays the ON/OFF status according to the status change of the lamp connected device.
- This switch is a momentary one. To change the switch type to an alternate one, change “TYPE” to “Alternate” with “Details edit” of the switches.

■ Operation parameters

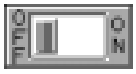
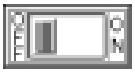
Operation Parameter	Initial Value	Description
[Lamp setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [device name]		Enter the name of the device that turns ON/OFF the lamp display.
○ [data type]	BIN	Specify the type of the connected device.
○ [Color when ON]	-	Specify the ON time color.
○ [Color when OFF]	-	Specify the OFF time color. For a color part, change the “background color”, as well.

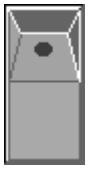
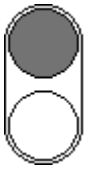
Operation Parameter	Initial Value	Description
[Switch setting]		
○ [station No.]	01	Enter the PLC station number.
◎ [device name]		Enter the name of the device in which the switch ON/OFF status is to be written.
○ [synchronize and operate]	None	Fixed to “NO”.
○ [Write when ON]	1	Enter the value to be written at ON time.
○ [Write when OFF]	0	Enter the value to be written at OFF time.

■ Remark

- Change both the “Color when OFF” of “lamp setting” and the “background color” of “Property of arrangement parts” to the same color.

Switches Toggle/selector	**Toggle switch**	D: About 690 bytes S: About 260 bytes

#CLS5001	#CLS5002	#CLS5003	#CLS5004	#CLS5005	#CLS5006	#CLS5007	#CLS5008
#MLS5001	#MLS5002	#MLS5003	#MLS5004	#MLS5005	#MLS5006	#MLS5007	#MLS5008
							

#CLS5009	#CLS5010	#CLS5011	#CLS5012	#CLS5013	#CLS5014	#CLS5015	#CLS5016
#MLS5009	#MLS5010	#MLS5011	#MLS5012	#MLS5013	#MLS5014	#MLS5015	#MLS5016
							

#CLS5017							
#MLS5017							
							

■ Function

- This switch sends its ON/OFF status to the connected device and displays the ON/OFF status according to the change of the monitor connected device.

■ Operation parameters

Operation Parameter	Initial Value	Description
[Template setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [monitor connected device name]		Enter the name of the device on which the switch ON/OFF status is to be displayed.
◎ [switch connected device name]		Enter the name of the device in which the switch ON/OFF status is to be written.

Switches Toggle/selector	**Selector switch**	D: Refer to the table S: Refer to the table

#CLS5101	#CLS5102	#CLS5103
#MLS5101	#MLS5102	#MLS5103
Radio switch	Selector switch	Selector switch (Mitsubishi CPU direct connection)
D: About 980 bytes S: About 490 bytes	D: About 470 bytes S: About 340 bytes	D: About 1520 bytes S: About 560 bytes
		

■ Function

[Radio switch]

- Only one of the 3 switches can be turned on. (Impossible to turn off all those 3 switches at once.)
- This part writes the turned-on switch number in a PLC.

[Selector switch]

- Only one of the 3 switches can be turned on. (Possible to turn off all those 3 switches at once.)
- This part writes the turned-on switch number in a PLC when “Word” is set for “device type”.
- When “Bit” is set for “device type”, this part writes “1” in the bit device of the switch number started at the connected “device name”.

[Selector switch (Mitsubishi CPU direct connection)]

- This part is used when “Mitsubishi CPU direct connection” is specified and “Bit” is set for “device type” of the above selector switch.

■ Operation parameters

[Radio switch]

Operation Parameter	Initial Value	Description
[Template setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [switch connected device name]		Enter the name of the word device in which the switch ON number is to be written.

[Selector switch]

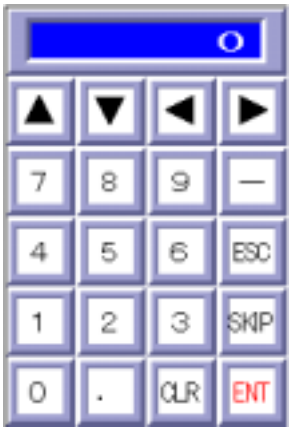
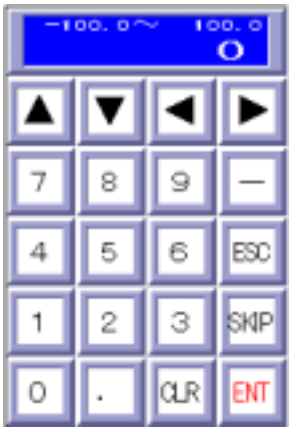
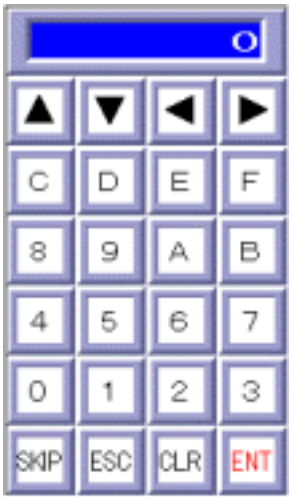
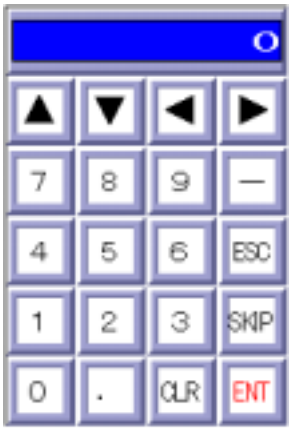
Operation Parameter	Initial Value	Description
[Selector switch setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [device name]		Enter the name of the device in which the switch ON/OFF status is to be written.
○ [device type]	Word	Refer to “Function” described above.
○ [synchronize and operate]	Yes	NO: Changes the display according to the switch ON/OFF status. YES: Changes the display by confirming that the PLC value is changed.

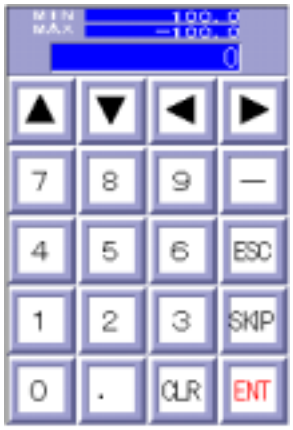
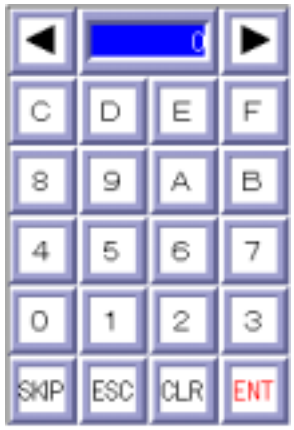
[Selector switch (Mitsubishi CPU direct connection)]

Operation Parameter	Initial Value	Description
[Selector switch setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [switch connected device name]		Enter the name of the first bit device in which the switch ON number is to be written.
○ [number of switches]	3	Specify the number of switches.

6. TEN-KEY PADS AND KEYBOARDS

Ten-key pads/keyboards Ten-key pad (for input numeral display)	**Ten-key (for input numeral display)**	D: Refer to the table S: Refer to the table

#CLT1001	#CLT1002	#CLT1003	#CLT1004
#MLT1001	#MLT1002	#MLT1003	#MLT1004
Ten-key pad	Ten-key pad with upper and lower indicators	Hexadecimal ten-key pad	Ten-key pad (double words)
D: About 4600 bytes S: About 1500 bytes	D: About 4700 bytes S: About 1700 bytes	D: About 4300 bytes S: About 1700 bytes	D: About 4600 bytes S: About 1500 bytes
			

#CLT1005	#CLT1006
#MLT1005	#MLT1006
Ten-key pad with upper and lower indicators (double words)	Hexadecimal ten-key pad
D: About 4700 bytes S: About 1700 bytes	D: About 4300 bytes S: About 1700 bytes
	

■ Function

- This part is combined with an “input numeral display” part for use.
- The part must be closed when arranged on a screen. Pressing the “input numeral display” part opens this part automatically.
- This part checks the upper and lower limit values set for the “input numeral display” part.

[Key operation]

[ENT]: Used to transfer an entered value to the “input numeral display” part.
[ESC]: Used to stop an input operation and closes the ten-key pad.
[CLR]: Used to clear the value displayed on the ten-key pad.
[SKIP]: Used to stop the “input numeral display” part to which data is being entered and begins an entry of data for “next part”.

Ten-key pads/keyboards Keyboard (for input text display)	**Keyboard (for input text display)**	D: Refer to the table S: Refer to the table

#CLT2001	#CLT2002
#MLT2001	#MLT2002
Alphanumeral & symbol keyboard	Full keyboard
D: About 8500 bytes S: About 3100 bytes	D: About 12000 bytes S: About 3800 bytes
	

■ Function
- This part is combined with an “input text display” part for use.
- The part must be closed when arranged on a screen. Pressing the “input text display” part opens this part automatically.

[Key operation]
[ENT]: Used to transfer entered values to the “input text display” part.
[ESC]: Used to stop an input operation and closes the ten-key pad.
[SKIP]: Used to stop the “input text display” part to which data is being entered and begins an entry of data for “next part”.

Ten-key pads/keyboards Keyboard (for input text display)	**Keyboard (for input text display)**	D: Refer to the table S: Refer to the table

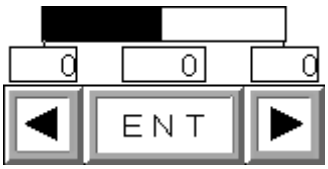
#CLT2004	#CLT2005
#MLT2004	#MLT2005
Alphanumerics & symbols keyboard (medium)	Alphanumerics & symbols keyboard (medium)
D: About 7000 bytes S: About 2300 bytes	D: About 7000 bytes S: About 2300 bytes
	

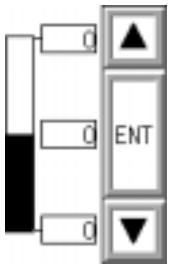
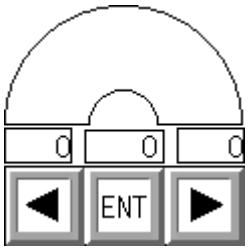
■ Function

- This part is combined with an "input text display" part for use.
- This part must be closed when arranged on a screen. Pressing an "input text display" part opens this part automatically.

[Key operation]
[ENT]: Used to transfer an input text to an "input text display" part.
[ESC]: Used to stop the current input work and closes the keyboard.
[SKIP]: Used to stop the "input text display" part in which data is being entered currently and begins the input of "next item part".

Ten-key pads/keyboards Ten-key pad/volume (direct write)	**Ten-key pad/volume (direct write)**	D: Refer to the table S: Refer to the table

#CLT3001	#CLT3002	#CLT3003
#MLT3001	#MLT3002	#MLT3003
Ten-key pad	Volume	Bar volume
D: About 2300 bytes S: About 920 bytes	D: About 1500 bytes S: About 370 bytes	D: About 2500 bytes S: About 960 bytes
		

#CLT3004	#CLT3005	
#MLT3004	#MLT3005	
Bar volume	**Rotate type volume**	
D: About 2500 bytes S: About 960 bytes	D: About 1800 bytes S: About 510 bytes	
		

■ Function

- When pressing [ENT] after a value is set, this part writes the value in the connected device.

■ Operation parameters

[Common setting]

Operation Parameter	Initial Value	Description
[Template setup]		
○ [station No.]	01	Enter the name of the PLC station number.
◎ [connected device name]		Enter the name of the device in which the set value is to be written.
○ [BIN:1, ±BIN:2/BCD:3]	1 or 2	Specify the type of the connected device.

[Other setting]

Operation Parameter	Initial Value	Description
[Template setup]		
○ [min value]	0	Enter the lower limit value of input data.
◎ [max value]	-	Enter the upper limit value of input data.
○ [increment value]	1	Enter the value to be increased/decreased at a switch entry.
○ [correction coefficient A]	1	((input data - [data correction offset B])/[data correction coefficient A]) decides the value to be written in PLC.
○ [correction offset value B]	0	

7. SCREEN SELECT PARTS

Screen select parts Screen select switch	**Screen select switch**	D: About 310 bytes S: About 140 bytes

#CAB1001	#CAB1002	#CAB1003	#CAB1004	#CAB1005	#CAB1006	#CAB1007	#CAB1008
#MAB1001	#MAB1002	#MAB1003	#MAB1004	#MAB1005	#MAB1006	#MAB1007	#MAB1008
	MENU	BACK	NEXT	RETURN	END	MANUAL	AUTO
#CAB1009	#CAB1010	#CAB1011	#CAB1012	#CAB1013	#CAB1014	#CAB1015	#CAB1016
#MAB1009	#MAB1010	#MAB1011	#MAB1012	#MAB1013	#MAB1014	#MAB1015	#MAB1016
MONITOR	MAIN	RUN	OPERA-TION	INSPECT	MANAGE	ERROR	WARNING
#CAB1017	#CAB1018	#CAB1019	#CAB1020				
#MAB1017	#MAB1018	#MAB1019	#MAB1020				
SETUP	SETUP END	BACK PAGE	NEXT PAGE				

■ Function

- This switch displays a specified screen.

■ Operation parameters

Operation Parameter	Initial Value	Description
[Template setup]		
◎ [next screen name]		Enter the name of the next screen.

Screen select parts Screen select switch (notice type)	**Screen select switch (notice type)**	D: About 440 bytes S: About 150 bytes

#CLB2001	#CLB2002	#CLB2003	#CLB2004	#CLB2005	#CLB2006	#CLB2007	#CLB2008
#MLB2001	#MLB2002	#MLB2003	#MLB2004	#MLB2005	#MLB2006	#MLB2007	#MLB2008
	MENU	BACK	NEXT	RETURN	END	MANUAL	AUTO
#CLB2009	#CLB2010	#CLB2011	#CLB2012	#CLB2013	#CLB2014	#CLB2015	#CLB2016
#MLB2009	#MLB2010	#MLB2011	#MLB2012	#MLB2013	#MLB2014	#MLB2015	#MLB2016
MONITOR	MAIN	RUN	OPERA-TION	INSPECT	MANAGE	ERROR	WARNING
#CLB2017	#CLB2018	#CLB2019	#CLB2020				
#MLB2017	#MLB2018	#MLB2019	#MLB2020				
SETUP	SETUP END	BACK PAGE	NEXT PAGE				

■ Function
- This switch displays the specified screen and notifies the connected device of the displayed screen number.
- This switch can also be used together with a “screen select control part” arranged on a global screen.

■ Operation parameters

Operation Parameter	Initial Value	Description
[Template setup]		
○ [next screen name]		Enter the name of the next screen.
○ [BIN:1, ±BIN:2/BCD:3]	1	Specify the type of the connected device.
○ [station No.]	01	Enter the PLC station number.
◎ [device name]		Enter the name of the device to which the selected screen number is to be notified.
○ [control part usage YES:1/NO:0]	0	Specify whether or not the “screen select control part” is used.

■ Remark
- To use this switch together with a “screen select control part”, the screen is changed by the “screen select control part”.

Screen select parts Screen select control part	**Screen select control part**	D: About 240 bytes S: About 80 bytes

#CLB3001
#MLB3001
(No pattern is used.)

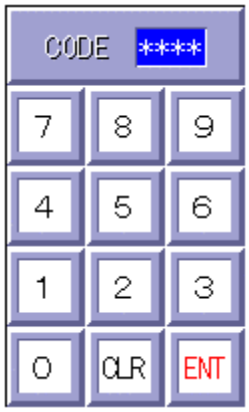
■ Function
- This part selects a screen according to the connected device value.
- This part must be closed when arranged on a global screen.

■ Operation parameters

Operation Parameter	Initial Value	Description
[Template setup]		
○ [station No.]	0	Enter the name of the next screen.
◎ [device name]		Enter the name of the device that changes the screen.
○ [BIN:1, ±BIN:2/BCD:3]	0	Specify the type of the connected device.

■ Remark
- The screen select number is assumed as a registered screen number.

Screen select part Screen select control part	**Screen select part with PIN**	D: About 2400 bytes S: About 1100 bytes

#CAB3101 #MAB3101


■ Function

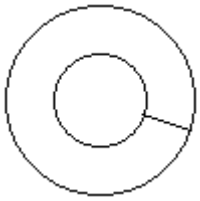
- This part displays the specified screen according to the entered PIN (personal identification number).
- This part is closed when the screen is changed if it is movably arranged on the screen.
- This part is closed when movably arranged on a screen if a wrong PIN is entered 3 times consecutively.

■ Operation parameters

Operation Parameter	Initial Value	Description
[Template setup]		
○ [PIN]	“1234”	Specify the PIN (personal identification number).
◎ [next screen name]		Enter the next screen to display.

8. METERS

Meters Analog meter	**Analog meter**	D: About 300 bytes S: About 140 bytes

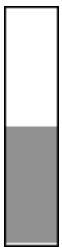
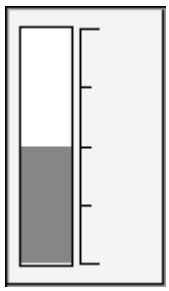
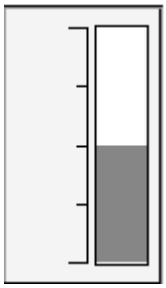
#CLE1001 #MLE1001	#CLE1002 #MLE1002	#CLE1003 #MLE1003
		
#CLE1004 #MLE1004	#CLE1005 #MLE1005	#CLE1006 #MLE1006
		

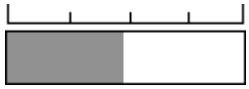
■ Function
- This meter displays the value of the connected device.
- The range, pointer color, pointer thickness, etc. of this meter can be changed with “Details edit” of the meters.

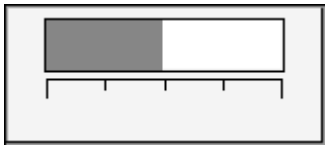
■ Operation parameters

Operation Parameter	Initial Value	Description
[Meter setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [device name]		Enter the name of the device whose value is to be displayed on the meter.
○ [data type]	BIN	Specify the type of the connected device.
△ [filter]		Specify this parameter to display a corrected value of the connected device.

Meters Bar meter	**Bar meter**	D: About 160 bytes S: About 160 bytes

#CLE2001 #MLE2001	#CLE2003 #MLE2003	#CLE2004 #MLE2004	#CLE2007 #MLE2007	#CLE2008 #MLE2008
				

#CLE2002 #MLE2002	#CLE2005 #MLE2005	#CLE2006 #MLE2006
		

#CLE2009 #MLE2009	#CLE2010 #MLE2010	
		

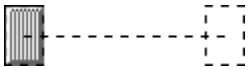
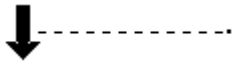
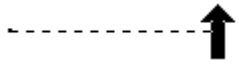
■ Function

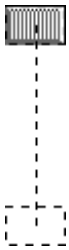
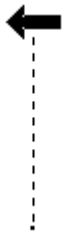
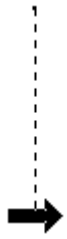
- This meter displays the value of the connected device.
- The range, bar color, etc. of the meter can be changed with “Details edit” of the bar graphs.

■ Operation parameters

Operation Parameter	Initial Value	Description
[Bar graph setup]		
○ [station No.]	01	Enter the name of the PLC station number.
◎ [device name]		Enter the name of the device whose value is to be displayed on the bar meter.
○ [data type]	BIN	Specify the type of the connected device.
○ [sampling time]	0	Fixed to “0”.
△ [filter]		Set this parameter to display a corrected value of the connected device.
○ [bar piece]	1	Fixed to “1”.
○ [bar dot]	25	Enter the number of dots as the width of the bar.

Meters Slide meter	**Slide meter**	D: About 230 bytes S: About 140 bytes

#CLE3001 #MLE3001	#CLE3003 #MLE3003	#CLE3004 #MLE3004
		

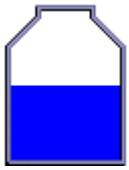
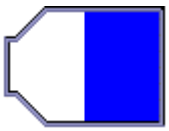
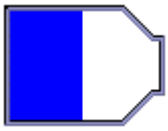
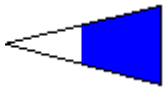
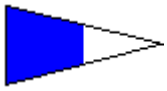
#CLE3002 #MLE3002	#CLE3005 #MLE3005	#CLE3006 #MLE3006
		

■ Function
- This meter displays the value of the connected device.
- The range, etc. of the meter can be changed with “Details edit” of the sliders.

■ Operation parameters

Operation Parameter	Initial Value	Description
[Slider setup]		
○ [station No.]	01	Enter the name of the PLC station number.
◎ [device name]		Enter the name of the device whose value is to be displayed on the slide meter.
○ [data type]	BIN	Specify the type of the connected device.
△ [filter]		Specify this parameter to display a corrected value of the connected device.

Meters Free meter	**Free meter**	D: About 330 bytes S: About 130 bytes

#CLE4001 #MLE4001	#CLE4002 #MLE4002	#CLE4003 #MLE4003	#CLE4004 #MLE4004
			
#CLE4005 #MLE4005	#CLE4006 #MLE4006	#CLE4007 #MLE4007	#CLE4008 #MLE4008
			

■ Function
- This part displays the value of a connected device as a free meter.
- The "range", "zone color/non-zone color", etc. can be changed with "Details edit" of free graphs.

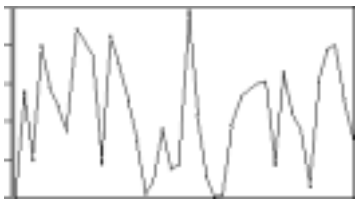
■ Operation parameters

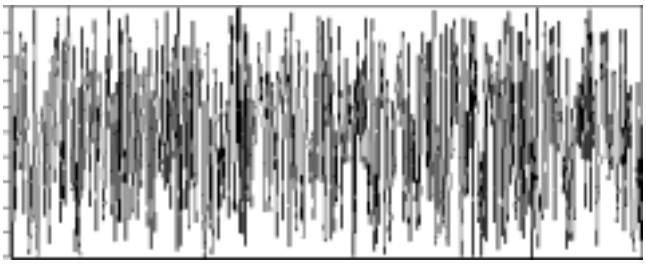
Operation Parameter	Initial Value	Description
[Free setup]		
○ [station No.]	01	Enter the name of the PLC station number.
◎ [device name]		Enter the name of the device for which a free meter is to be displayed.
○ [data type]	BIN	Specify the type of the connected device.
△ [filter]		Specify this parameter to display a corrected value of the connected device.

■ Remark
- Do not specify any value other than "0: transparent" for "background color" of "Property of arrangement parts".

9. GRAPHS

Graphs Trend graph	**Trend graph**	D: Refer to the table. S: Refer to the table.

#CLG1001 / #CLG1002 #MLG1001 / #MLG1002	#CLG1003 / #CLG1004 #MLG1003 / #MLG1004
Trend graph	Bar trend graph
D: About 150 bytes S: About 400 bytes	D: About 270 bytes S: About 470 bytes
	

#CLG1005 / #CLG1006 #MLG1005 / #MLG1006
Trend graph
D: About 180 bytes S: About 2600 bytes


■ Function

- This part reads the value of the connected device at each sampling time and displays the value as a trend graph.
- The range, color, etc. of this part can be changed with "Details edit" of the graph.

■ Operation parameters

[Common to trend graph and bar trend graph]

Operation Parameter	Initial Value	Description
[Break line/bar setup]		
○ [station No.]	01	Enter the name of the PLC station number.
◎ [device name]		Enter the name of the device whose value is to be displayed as a graph.
○ [data type]	BIN	Specify the type of the connected device.
○ [sampling time]	2	Enter the sampling time value. Sampling is made at "set value" × 0.5ms".
△ [filter]		Specify this parameter to display a corrected value of the connected device.

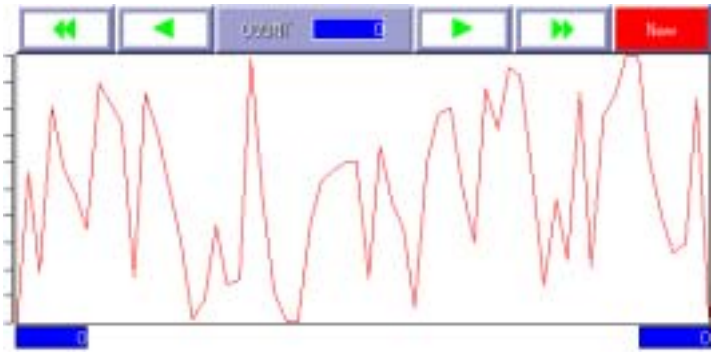
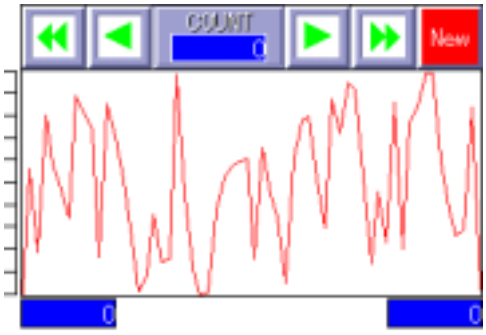
[Trend graph]

Operation Parameter	Initial Value	Description
[Break line setup]		
○ [flowing direction]	→	→: Data is right-shifted and the latest data is put on the left end. ←: Data is left-shifted and the latest data is put on the right end.
○ [line piece]	1	Enter the number of lines to display.
○ [line plot point]	50 or 600	Enter the number of plots to display at once.

[Bar trend graph]

Operation Parameter	Initial Value	Description
[Break line setup]		
○ [number of bars]	40	Enter the number of bars to display at once.
○ [bar width]	7	Enter the width of one bar.

Graphs Trend graph(data storing type)	**Trend graph (data storing type)(1 line)**	D: About 3300 bytes S: About 4800 bytes

#CLG1101 #MLG1101	#CLG1102 #MLG1102
	

■ Function

- This part reads the value of the connected device at each sampling time and displays the value as a trend graph.
- Pressing the upper right switch of this part stops the display of the trend graph and displays the history data for “stored data items”. (Data sampling is kept as is during this stop time.)
- Pressing the upper right switch again restarts the display of the trend graph.
- Even when this part is displayed on a back screen, the latest history information is stored.

■ Operation parameters

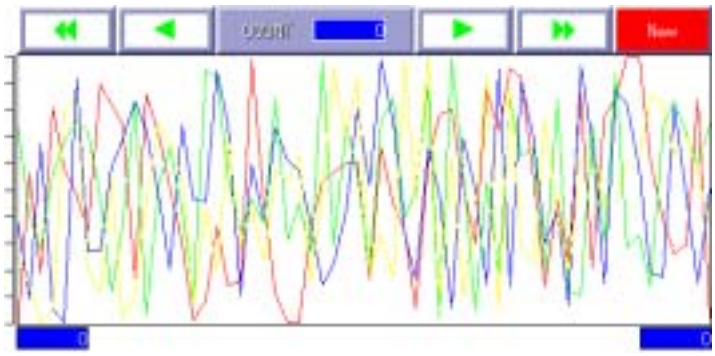
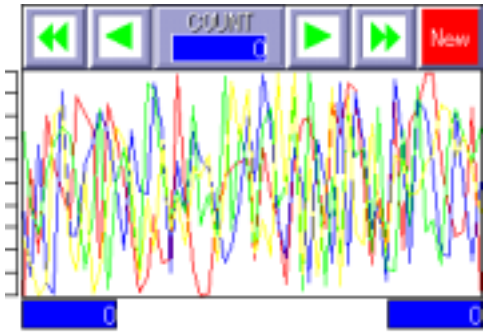
Operation Parameter	Initial Value	Description
[Break line setup]		
○ [station No.]	01	Enter the name of the PLC station number.
◎ [device name]		Enter the name of the device whose value is to be displayed as a graph.
○ [data type]	BIN	Specify the type of the connected device.
○ [sampling time]	2	Enter the sampling time value. Sampling is made at “set value” × 0.5ms”.
○ [flowing direction]	Fixed to “→”.	Data is right-shifted and the latest data is put on the left end.
△ [filter]		Do not set this parameter.
○ [line piece]	1	Fixed to “1”.
○ [line plot point]	60	Enter the number of plots to display at once.

Operation Parameter	Initial Value	Description
[Template setup]		
○ [number of data items]	300	Enter the number of data items for which trend information is to be stored.
○ [upper limit value]	10000	Enter the value for initializing the counter (numeral display) to “0”.
○ [number of plots]	60	Enter the same value as “number of plots” set for the “break line”.

■ Remark

- This part (break line) uses two controls; “trend display (LNE001) and “history display (LNE000).
  To change the number of plots to be displayed on a break line, change the “line plot point” parameter, then specify the same value for the “line plot point for a break line” of “LNE000”.
- The operation parameters must be specified in the relationship of "upper limit counter value" ≦"number of stored data items" ≦ "number of plots".

Graphs Trend graph(data storing type)	**Trend graph (data storing type) (plural)**	D: About 5100 bytes S: About 15000 bytes

#CLG1103 #MLG1103	#CLG1104 #MLG1104
	

■ Function

- This part reads the value of a connected device at each sampling time and displays it on a trend graph.
- The upper right switch is pressed to stop the trend display and display the history data for "number of stored data items". (Data sampling is kept as is during this time.)
- Pressing the upper right switch again restarts the trend display.
- This part stores the latest history data even when arranged on the back screen.

■ Operation parameters

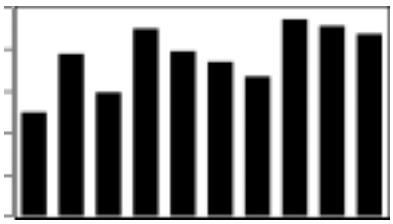
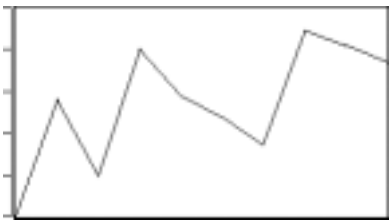
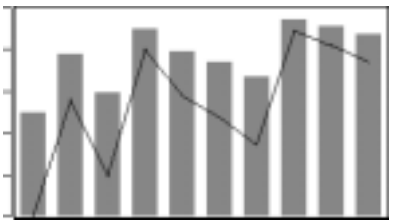
Operation Parameter	Initial Value	Description
[Break line setup]		
○ [station No.]	01	Enter the PLC station number.
◎ [device name]		Enter the name of the device for which a graph is to be displayed.
○ [data type]	BIN	Specify the type of the connected device.
○ [sampling time]	2	Specify the sampling time. Sampling is performed at "specified value" × 0.5ms.
○ [flowing direction]	Fixed to "→".	Data is shifted to the right and the latest data is displayed at the left end.
△ [filter]		Do not specify this parameter.
○ [line piece]	4	Specify the number of lines to display.
○ [line plot point]	60	Specify the number of plots to display at once.

Operation Parameter	Initial Value	Description
[Template setup]		
○ [number of data items]	300	Specify the number of data items to store as trend information.
○ [number of lines]	4	Specify the name value as that of "number of lines" of the "break line".
○ [upper limit]	10000	Specify the value at which the counter (numeral display) is cleared to "0".
○ [number of plots]	60	Specify the same value as that of "number of plots" of the "break line".

■ Remark

- The trend graph of this part uses two controls of "trend display (LINE001)" and "history display (LINE000)".
  To change "number of plots" for break line display and "number of lines", change "line plot point" and "number of lines" set for "operation parameters", then specify the updated values for "line plot point" and "line piece" of the "LINE000" break line with "EDIT CONTENTS" of the part.
- The operation parameters must be specified in the relationship of "upper limit counter value" ≦"number of stored data items" ≦ "number of plots".

Graphs Bar/line graph	**Bar/line graph**	D: Refer to the table. S: Refer to the table.

#CLG2001 / #CLG2002	#CLG2003 / #CLG2004	#CLG2005 / #CLG2006
#MLG2001 / #MLG2002	#MLG2003 / #MLG2004	#MLG2005 / #MLG2006
Bar graph	Line graph	Bar/line graph
D: About 350 bytes S: About 300 bytes	D: About 320 bytes S: About 260 bytes	D: About 620 bytes S: About 480 bytes
		

■ Function

- This part displays the value of the connected device (for the number of bars/lines × number of plots) as a bar/break line.
- For a "bar/break line" part, specify the same connected device for both the bar and the break line.
- The range, color, etc. of this part can be changed with "Details edit" of the graph.

■ Operation parameters

[Bar graph/bar & line graph]

Operation Parameter	Initial Value	Description
[Bar setup]		
○ [station No.]	01	Enter the name of the PLC station number.
◎ [device name]		Enter the name of the first device whose value is to be displayed as a graph.
○ [data type]	BIN	Specify the type of the connected device.
○ [sampling time]	0	Fixed to "0".
△ [filter]		Specify this parameter to display a corrected value of the connected device.
○ [number of bars]	10	Enter the number of bars to display at once. This value is assumed as the number of connected devices.
○ [bar width]	19	Enter the width of one bar.

[Line graph/Bar & line graph]

Operation Parameter	Initial Value	Description
[Break line setup]		
○ [station No.]	01	Enter the name of the PLC station number.
◎ [device name]		Enter the name of the first device whose value is to be displayed as a graph.
○ [data type]	BIN	Specify the type of the connected devices.
○ [sampling time]	0	Fixed to "0".
○ [flowing direction]	→	Invalid
△ [filter]		Specify this parameter to display a corrected value of the connected device.
○ [line piece]	1	Enter the number of lines to display.
○ [line plot point]	10	Enter the number of plots to display at once. The value of "line piece" × "line plot point" is assumed as the number of connected devices.

Graphs Zone/circle graph	**Belt/circle graph**	D: Refer to the table. S: Refer to the table.

#CLG3001	#CLG3002	#CLG3003
#MLG3001	#MLG3002	#MLG3003
Belt graph	Belt graph	Circle graph
D: About 150 bytes S: About 150 bytes	D: About 150 bytes S: About 150 bytes	D: About 160 bytes S About 160 bytes
		

■ Function
- This part displays the values of the connected devices (for the number of zones) as a belt/circle.
- The zone color, etc. of this part can be changed with “Details edit” of the graph.

■ Operation parameters

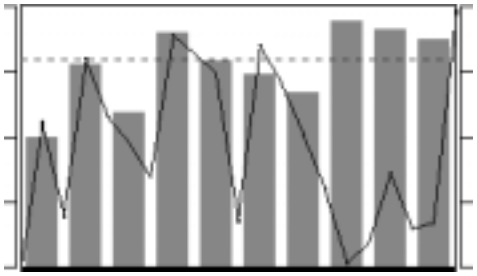
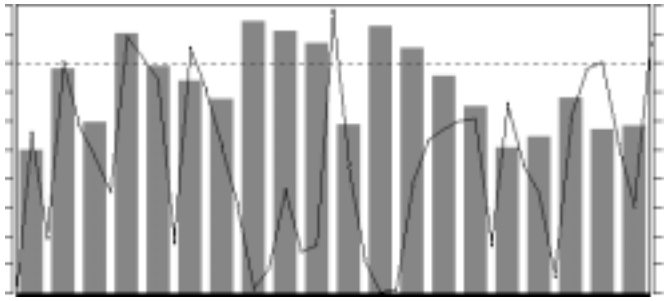
[Band]

Operation Parameter	Initial Value	Description
[Band setup]		
○ [station No.]	01	Enter the name of the PLC station number
◎ [device name]		Enter the name of the first device whose value is to be displayed as a graph.
○ [data type]	BIN	Specify the type of the connected devices.
○ [zones]	3	Enter the number of zones to be displayed on a graph. This value is assumed as the number of connected devices.

[Circle]

Operation Parameter	Initial Value	Description
[Circle setup]		
○ [station No.]	01	Enter the name of the PLC station number
◎ [device name]		Enter the name of the first device whose value is to be displayed as a graph.
○ [data type]	BIN	Specify the type of the connected devices.
○ [zones]	3	Enter the number of zones to be displayed on a graph. This value is assumed as the number of connected devices.

Graphs Pareto chart	**Pareto chart**	D: Refer to the table. S: Refer to the table.

#CLG4001 / #CLG4002 #MLG4001 / #MLG4002	#CLG4003 / #CLG4004 #MLG4003 / #MLG4004
Pareto chart	Pareto chart (large)
D: About 1500 bytes S: About 680 bytes	D: About 2100 bytes S: About 1100 bytes
	

■ Function

- This part displays the values of the connected devices (for the number of bars) as a Pareto chart.
- A break line is displayed automatically according to the connected device value of the “bar”.
- The range, color, etc. of this part can be changed with “Details edit” of the bar.

■ Operation parameters

Operation Parameter	Initial Value	Description
[Bar setup]		
○ [station No.]	01	Enter the name of the PLC station number.
◎ [device name]		Enter the name of the first device whose value is to be displayed as a graph.
○ [data type]	BIN	Specify the type of the connected devices.
○ [sampling time]	0	Fixed to “0”.
△ [filter]		Specify this parameter to display a corrected value of the connected device.
○ [number of bars]	10 or 20	Enter the number of bars to display at once. This value is assumed as the number of connected devices.
○ [bar width]	19	Specify the width of one bar.

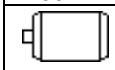
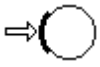
Operation Parameter	Initial Value	Description
[Template setup]		
○ [number of bars]	10 or 20	Enter the number of bars to display at once.
○ [Pareto reference line (%)]	80	Specify the percentage to display the reference line.

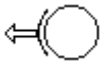
■ Remark

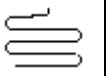
- When a device whose value changes fast is connected, use a “bar/break line”.

ISO7000 0001 - 0100	**ISO_0001 - ISO_0100**

0001	0002	0003	0004	0005	0006	0007	0008	0009	0010
									

0011	0012	0013	0014	0015	0016	0017	0018	0019	0020
									

0021	0022	0023	0024	0025	0026	0027	0028	0029	0030
									

0031	0032	0033	0034	0035	0036	0037	0038	0039	0040
									

0041	0042	0043	0044	0045	0046	0047	0048	0049	0050

0051	0052	0053	0054	0055	0056	0057	0058	0059	0060

0061	0062	0063	0064	0065	0066	0067	0068	0069	0070

0071	0072	0073	0074	0075	0076	0077	0078	0079	0080

0081	0082	0083	0084	0085	0086	0087	0088	0089	0090

0091	0092	0093	0094	0095	0096	0097	0098	0099	0100

ISO7000 0101 - 0200	**ISO_0101 - ISO_0200**

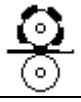
0101	0102	0103	0104	0105	0106	0107	0108	0109	0110
									FormA FormB
0111	0112	0113	0114	0115	0116	0117	0118	0119	0120
FormA FormB									
0121	0122	0123	0124	0125	0126	0127	0128	0129	0130
0131	0132	0133	0134	0135	0136	0137	0138	0139	0140
0141	0142	0143	0144	0145	0146	0147	0148	0149	0150
0151	0152	0153	0154	0155	0156	0157	0158	0159	0160
0161	0162	0163	0164	0165	0166	0167	0168	0169	0170
0171	0172	0173	0174	0175	0176	0177	0178	0179	0180
0181	0182	0183	0184	0185	0186	0187	0188	0189	0190
0191	0192	0193	0194	0195	0196	0197	0198	0199	0200

ISO7000 0201 - 0300	**ISO_0201 - ISO_0300**

0201	0202	0203	0204	0205	0206	0207	0208	0209	0210
									

0211	0212	0213	0214	0215	0216	0217	0218	0219	0220
									

0221	0222	0223	0224	0225	0226	0227	0228	0229	0230
									

0231	0232	0233	0234	0235	0236	0237	0238	0239	0240
									

0241	0242	0243	0244	0245	0246	0247	0248	0249	0250

0251	0252	0253	0254	0255	0256	0257	0258	0259	0260

0261	0262	0263	0264	0265	0266	0267	0268	0269	0270

0271	0272	0273	0274	0275	0276	0277	0278	0279	0280

0281	0282	0283	0284	0285	0286	0287	0288	0289	0290

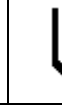
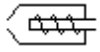
0291	0292	0293	0294	0295	0296	0297	0298	0299	0300

ISO7000 0301 - 0400	**ISO_0301 - ISO_0400**

0301	0302	0303	0304	0305	0306	0307	0308	0309	0310
									

0311	0312	0313	0314	0315	0316	0317	0318	0319	0320
									

0321	0322	0323	0324	0325	0326	0327	0328	0329	0330
									

0331	0332	0333	0334	0335	0336	0337	0338	0339	0340
									

0341	0342	0343	0344	0345	0346	0347	0348	0349	0350

0351	0352	0353	0354	0355	0356	0357	0358	0359	0360

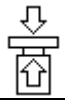
0361	0362	0363	0364	0365	0366	0367	0368	0369	0370

0371	0372	0373	0374	0375	0376	0377	0378	0379	0380

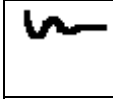
0381	0382	0383	0384	0385	0386	0387	0388	0389	0390

0391	0392	0393	0394	0395	0396	0397	0398	0399	0400

ISO7000 0401 - 0500	**ISO_0401 - ISO_0500**

0401	0402	0403	0404	0405	0406	0407	0408	0409	0410
									
0411	**0412**	**0413**	**0414**	**0415**	**0416**	**0417**	**0418**	**0419**	**0420**
									
0421	**0422**	**0423**	**0424**	**0425**	**0426**	**0427**	**0428**	**0429**	**0430**
									
0431	**0432**	**0433**	**0434**	**0435**	**0436**	**0437**	**0438**	**0439**	**0440**
									
0441	**0442**	**0443**	**0444**	**0445**	**0446**	**0447**	**0448**	**0449**	**0450**
									
0451	**0452**	**0453**	**0454**	**0455**	**0456**	**0457**	**0458**	**0459**	**0460**
0461	**0462**	**0463**	**0464**	**0465**	**0466**	**0467**	**0468**	**0469**	**0470**
0471	**0472**	**0473**	**0474**	**0475**	**0476**	**0477**	**0478**	**0479**	**0480**
0481	**0482**	**0483**	**0484**	**0485**	**0486**	**0487**	**0488**	**0489**	**0490**
0491	**0492**	**0493**	**0494**	**0495**	**0496**	**0497**	**0498**	**0499**	**0500**

ISO7000 0501 - 0600	**ISO_0501 - ISO_0600**

0501	0502	0503	0504	0505	0506	0507	0508	0509	0510
									

0511	0512	0513	0514	0515	0516	0517	0518	0519	0520
									

0521	0522	0523	0524	0525	0526	0527	0528	0529	0530
									

0531	0532	0533	0534	0535	0536	0537	0538	0539	0540
									

0541	0542	0543	0544	0545	0546	0547	0548	0549	0550
									

0551	0552	0553	0554	0555	0556	0557	0558	0559	0560

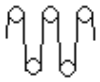
0561	0562	0563	0564	0565	0566	0567	0568	0569	0570

0571	0572	0573	0574	0575	0576	0577	0578	0579	0580

0581	0582	0583	0584	0585	0586	0587	0588	0589	0590

0591	0592	0593	0594	0595	0596	0597	0598	0599	0600

ISO7000 0601 - 0700	**ISO_0601 - ISO_0700**

0601	0602	0603	0604	0605	0606	0607	0608	0609	0610
									

0611	0612	0613	0614	0615	0616	0617	0618	0619	0620
									

0621	0622	0623	0624	0625	0626	0627	0628	0629	0630
									

0631	0632	0633	0634	0635	0636	0637	0638	0639	0640
									

0641	0642	0643	0644	0645	0646	0647	0648	0649	0650

0651	0652	0653	0654	0655	0656	0657	0658	0659	0660

0661	0662	0663	0664	0665	0666	0667	0668	0669	0670

0671	0672	0673	0674	0675	0676	0677	0678	0679	0680

0681	0682	0683	0684	0685	0686	0687	0688	0689	0690

0691	0692	0693	0694	0695	0696	0697	0698	0699	0700

ISO7000 0701 - 0800	**ISO_0701 - ISO_0800**

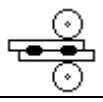
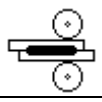
0701	0702	0703	0704	0705	0706	0707	0708	0709	0710
									
0711	0712	0713	0714	0715	0716	0717	0718	0719	0720
									
0721	0722	0723	0724	0725	0726	0727	0728	0729	0730
									
0731	0732	0733	0734	0735	0736	0737	0738	0739	0740
									
0741	0742	0743	0744	0745	0746	0747	0748	0749	0750
									
0751	0752	0753	0754	0755	0756	0757	0758	0759	0760
0761	0762	0763	0764	0765	0766	0767	0768	0769	0770
0771	0772	0773	0774	0775	0776	0777	0778	0779	0780
0781	0782	0783	0784	0785	0786	0787	0788	0789	0790
0791	0792	0793	0794	0795	0796	0797	0798	0799	0800

ISO7000 0801 - 0900	**ISO_0801 - ISO_0900**

0801	0802	0803	0804	0805	0806	0807	0808	0809	0810
									

0811	0812	0813	0814	0815	0816	0817	0818	0819	0820
									

0821	0822	0823	0824	0825	0826	0827	0828	0829	0830
									

0831	0832	0833	0834	0835	0836	0837	0838	0839	0840
									

0841	0842	0843	0844	0845	0846	0847	0848	0849	0850
									

0851	0852	0853	0854	0855	0856	0857	0858	0859	0860

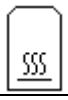
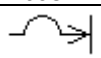
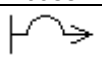
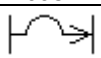
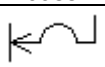
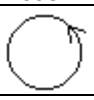
0861	0862	0863	0864	0865	0866	0867	0868	0869	0870

0871	0872	0873	0874	0875	0876	0877	0878	0879	0880

0881	0882	0883	0884	0885	0886	0887	0888	0889	0890

0891	0892	0893	0894	0895	0896	0897	0898	0899	0900

ISO7000 0901 - 1000	**ISO_0901 - ISO_1000**

0901	0902	0903	0904	0905	0906	0907	0908	0909	0910
									
0911	0912	0913	0914	0915	0916	0917	0918	0919	0920
									
0921	0922	0923	0924	0925	0926	0927	0928	0929	0930
									
0931	0932	0933	0934	0935	0936	0937	0938	0939	0940
									
0941	0942	0943	0944	0945	0946	0947	0948	0949	0950
									
0951	0952	0953	0954	0955	0956	0957	0958	0959	0960
0961	0962	0963	0964	0965	0966	0967	0968	0969	0970
0971	0972	0973	0974	0975	0976	0977	0978	0979	0980
0981	0982	0983	0984	0985	0986	0987	0988	0989	0990
0991	0992	0993	0994	0995	0996	0997	0998	0999	1000

ISO7000 1001 - 1100	**ISO_1001 - ISO_1100**

1001	1002	1003	1004	1005	1006	1007	1008	1009	1010
									

1011	1012	1013	1014	1015	1016	1017	1018	1019	1020
									

1021	1022	1023	1024	1025	1026	1027	1028	1029	1030
									

1031	1032	1033	1034	1035	1036	1037	1038	1039	1040
									

1041	1042	1043	1044	1045	1046	1047	1048	1049	1050

1051	1052	1053	1054	1055	1056	1057	1058	1059	1060

1061	1062	1063	1064	1065	1066	1067	1068	1069	1070

1071	1072	1073	1074	1075	1076	1077	1078	1079	1080

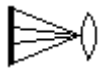
1081	1082	1083	1084	1085	1086	1087	1088	1089	1090

1091	1092	1093	1094	1095	1096	1097	1098	1099	1100

ISO7000 1101 - 1140	**ISO_1101 - ISO_1140**

1101	1102	1103	1104	1105	1106	1107	1108	1109	1110
									

1111	1112	1113	1114	1115	1116	1117	1118	1119	1120
									

1121	1122	1123	1124	1125	1126	1127	1128	1129	1130
									

1131	1132	1133	1134	1135	1136	1137	1138	1139	1140