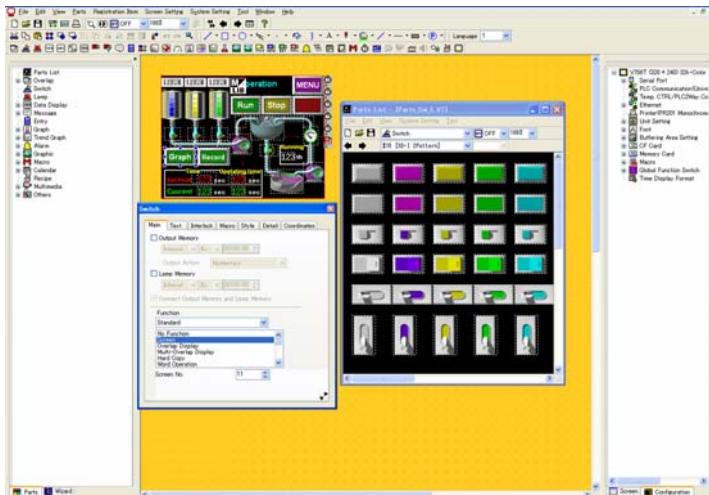


MONITOUCH

V-SFT ver.5 Tutorial

Basic Operation



e-Front runners



Hakko Electronics Co., Ltd.

1. Preparation
2. How can I place lamps and switches?
3. How can I display the value in PLC memory in graph?
4. How can I display the value in PLC memory numerically?
5. How can I change the value in PLC memory from MONITOUCH?
6. How can I display the message?
7. How can I display errors in their priority order?
8. How can I display the error history?
9. How can I display the sampled data in line graph?
10. How can I display, move and transform the graphic?
11. Appendix-1
12. Appendix-2

The materials used
in this Tutorial are:

- V-SFT ver.5
- MONITOUCH V806 color type (QVGA)
-  General Modbus RTU driver

1. Preparation



1. Starting V-SFT

“Edit Model Selection” to “Comm. Parameter” setting

2. Outlook of Ver.5 screen

Outlook of Ver.5 and customizing

3. Drawing lines and rectangles

4. Placing “Text”

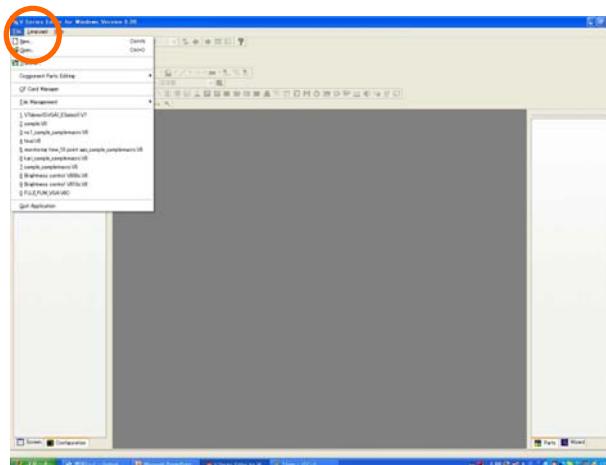
5. Saving screen data

6. Transferring screen data to MONITOUCH

1. Starting V-SFT

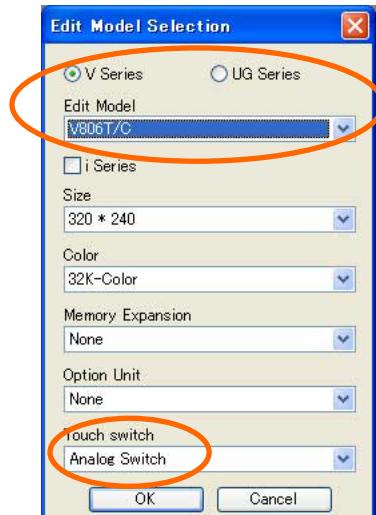
“Edit Model Selection” to “Comm. Parameter” setting

1) Start V-SFT



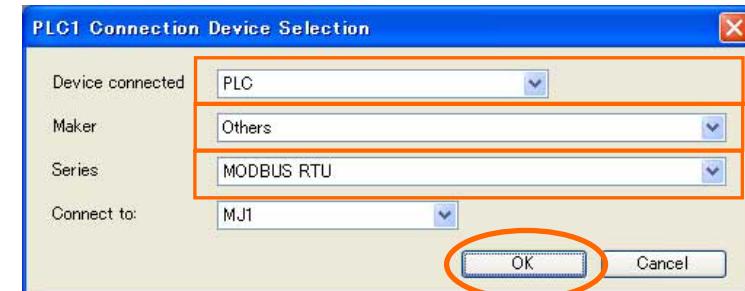
Go to [File] > [New] OR Click [New] icon

2) Edit Model Selection



Select [V806T/C] > Click [OK]

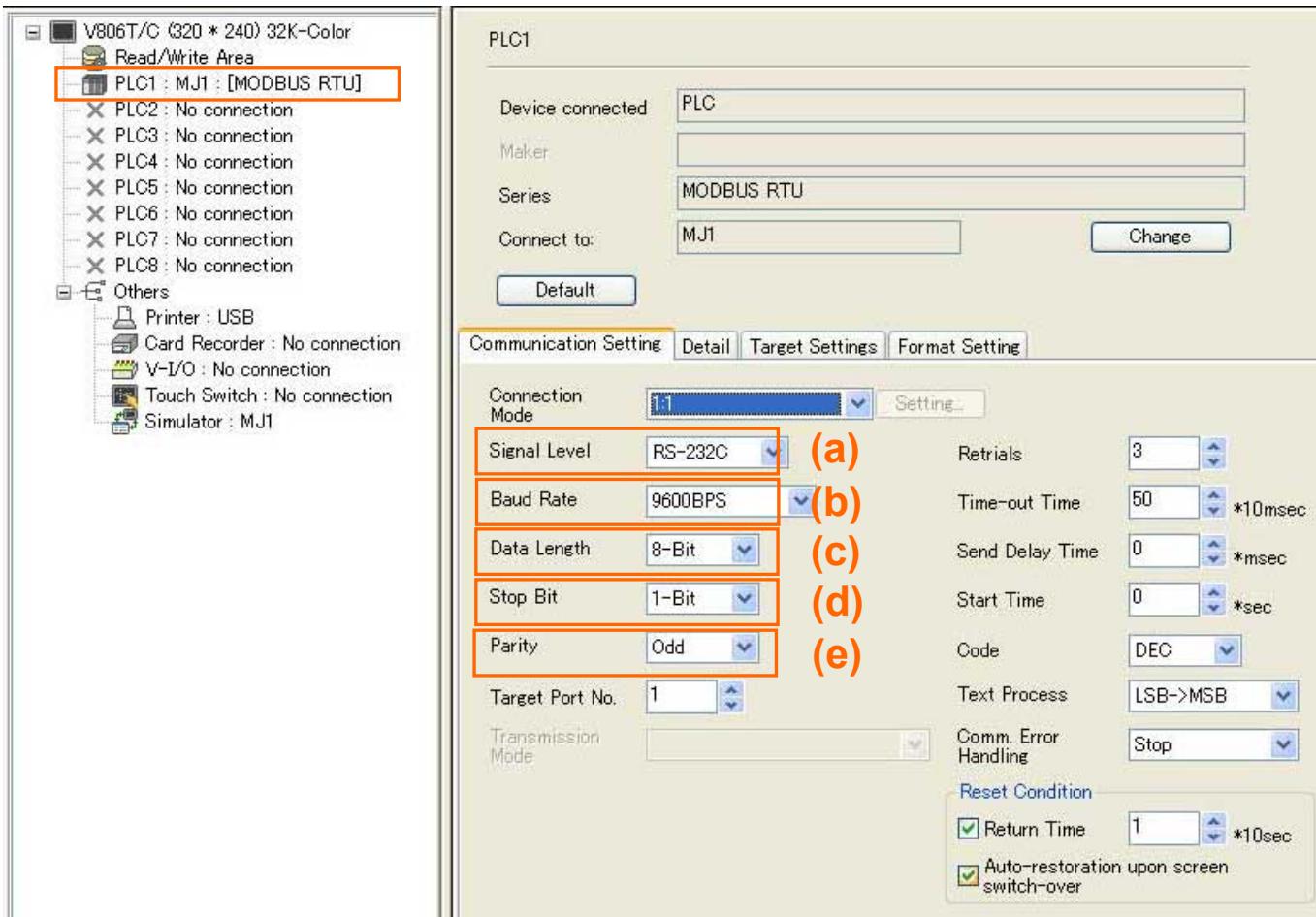
3) PLC select



(a)
(b)
(c)

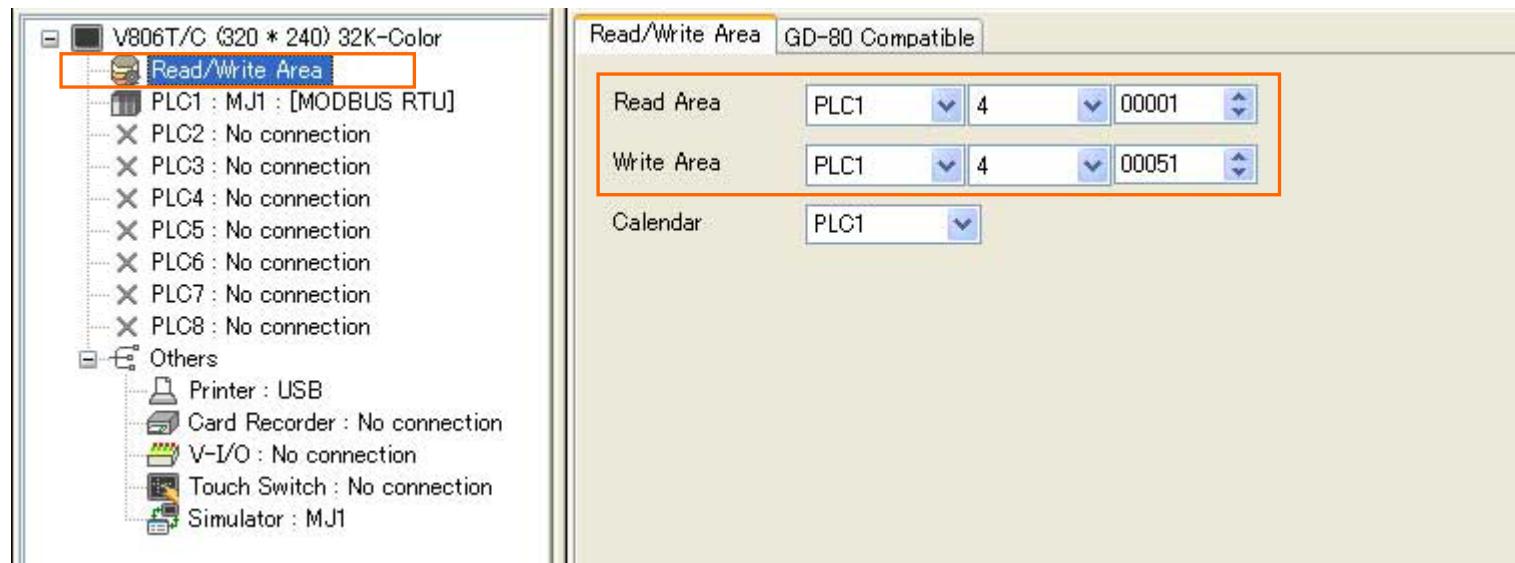
- (a) Device Connected PLC
- (b) Make Others
- (c) Series Modbus RTU
> Click [OK]

4) Device connection setting [PLC1]

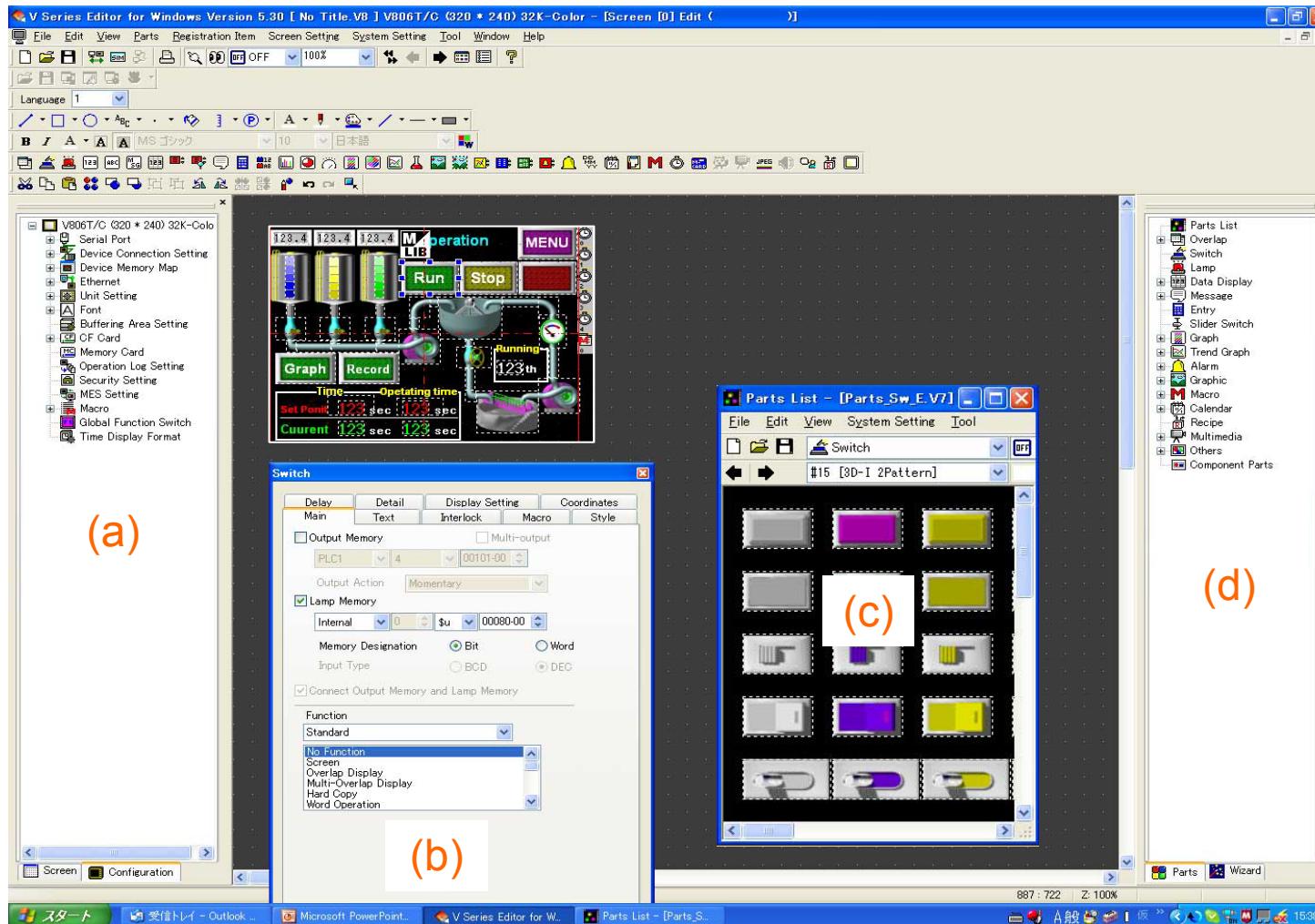


- (a) Signal Level
- (b) Baudrate
- (c) Data Length
- (d) Stop Bit
- (e) Parity

5) Read/Write Area



2. Outlook of ver.5 screen Outlook of ver.5 and customizing



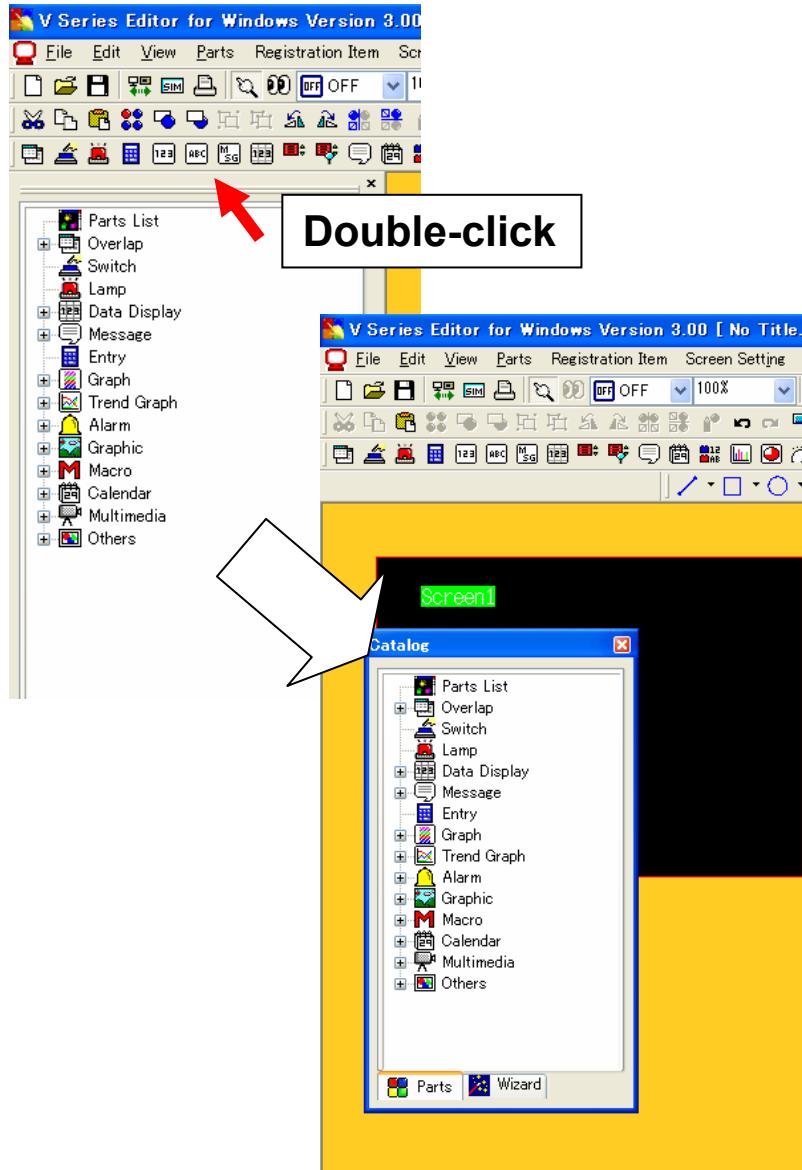
(a) Project View

(b) Item View

(c) Parts List

(d) Catalog View

1) Move View



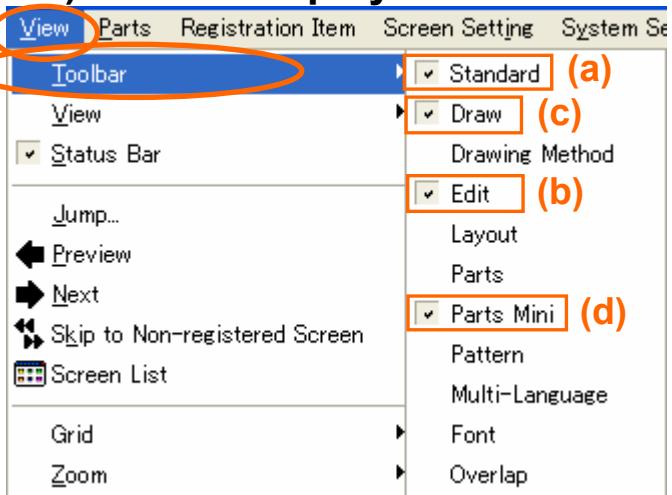
Double-click the top of the view
OR [Ctrl]+ drag

2) Fix View

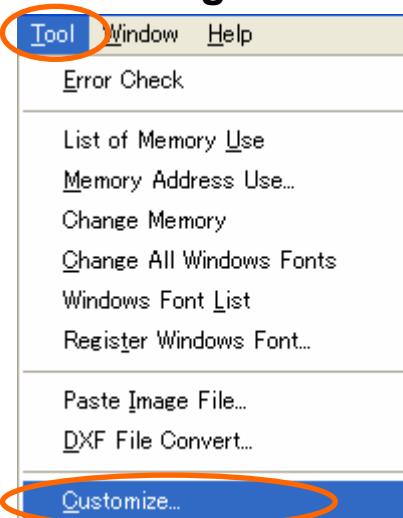


Double-click the top of the view
OR drag

3) How to display “Toolbar”



4) Customizing “Toolbar”



[Tool] > [Customize]



[View] > [Toolbar] > Select items to display



(a) Standard

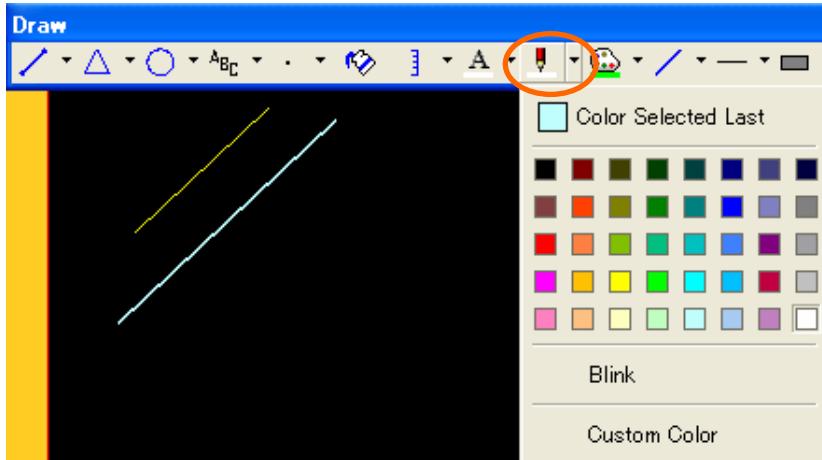
(c) Draw

(b) Edit

(d) Parts Mini

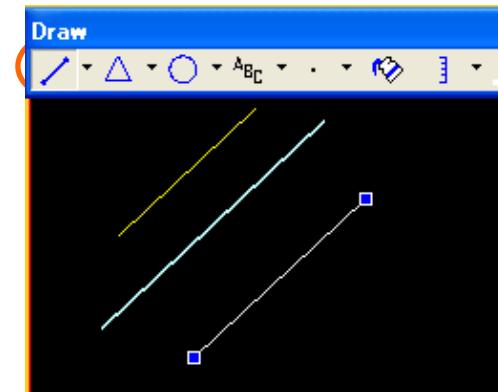
3. Drawing lines and rectangles

1) Select line color



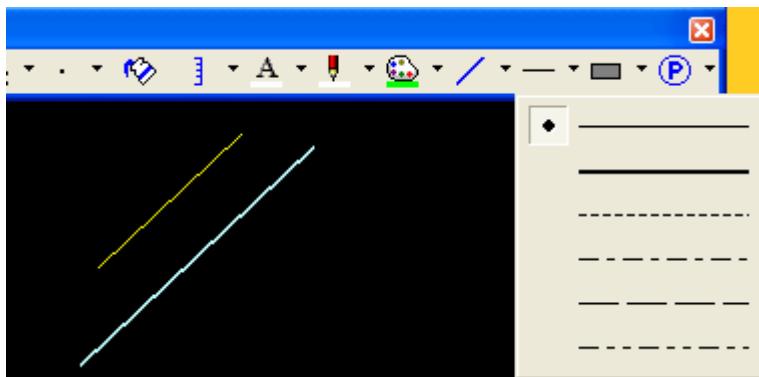
Click the arrow next to “Pen” icon > Select line color

3) Drawing a line



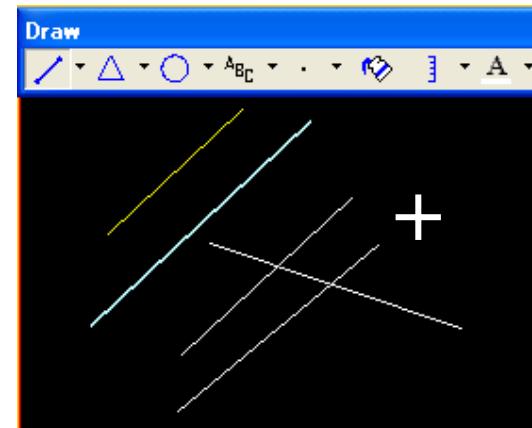
Click [Straight Line] icon > Drag the cursor

2) Select line type



Click the arrow next to “Line” icon > Select line type

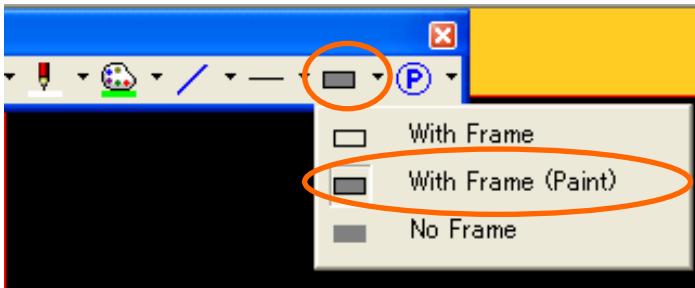
4) Cancel the drawing mode



Right-click OR Click anywhere on the screen

3. Drawing lines and rectangles

1) Select frame type



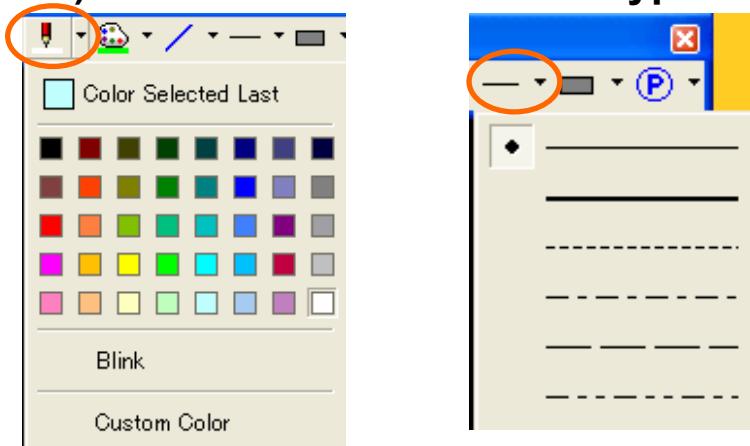
Click the arrow next to [Frame Type] icon
> Select frame type

3) Select paint color

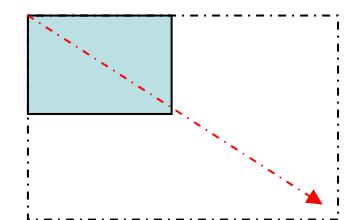
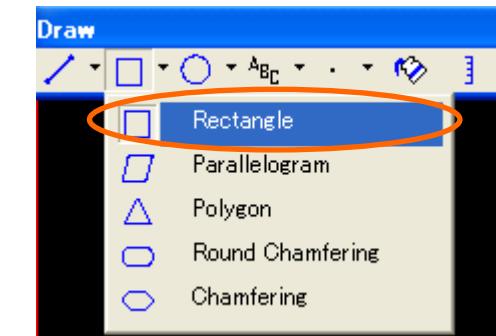


Click the arrow next to [Paint] icon
> Select paint color

4) Drawing a rectangle



Select line color and line type



Click [Rectangle] icon > Select "Rectangle"
Drag the cursor from the start-point to the
end-point

4. Placing “Text”

1) Property Setting

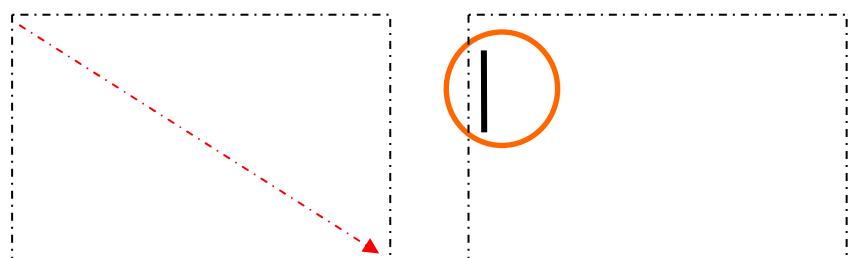


a) Color

b) Paint / Background color

Select the color for text and background

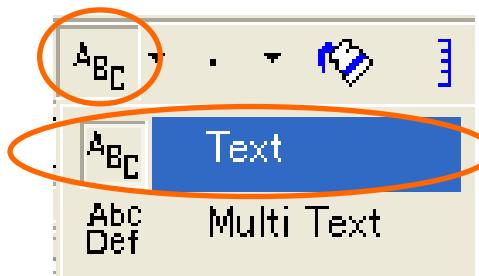
3) Making text area



Drag from the start-point
to the end-point

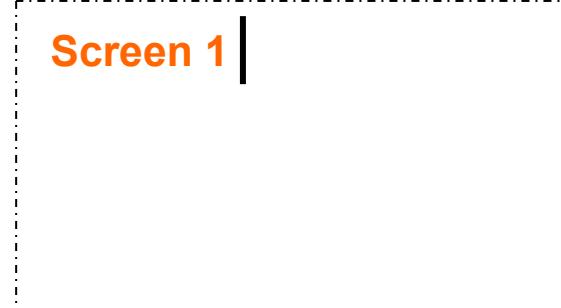
Blinking cursor
appears

2) Select [Text]



Click [Text] icon > Select [Text]

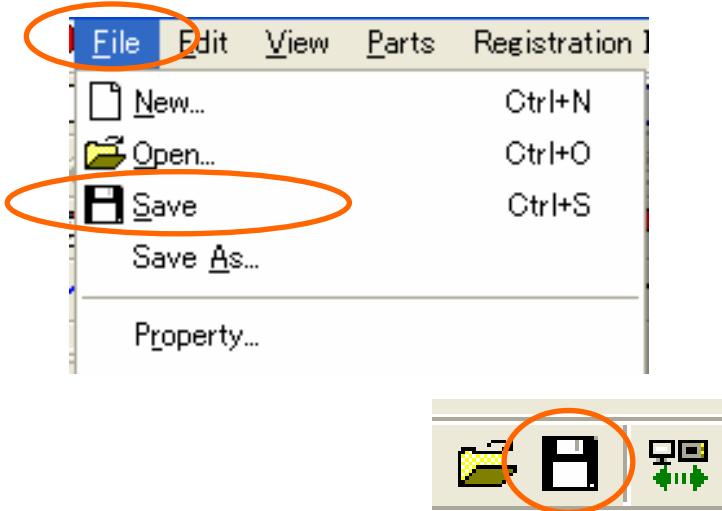
4) Edit text



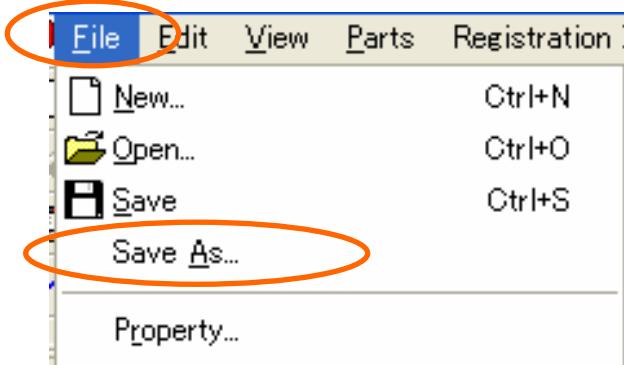
Edit the text in text area

5. Saving screen data

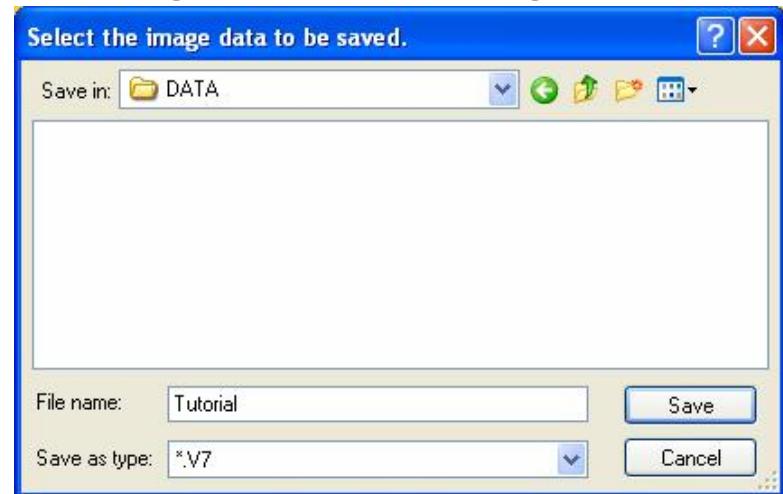
1-1) Save



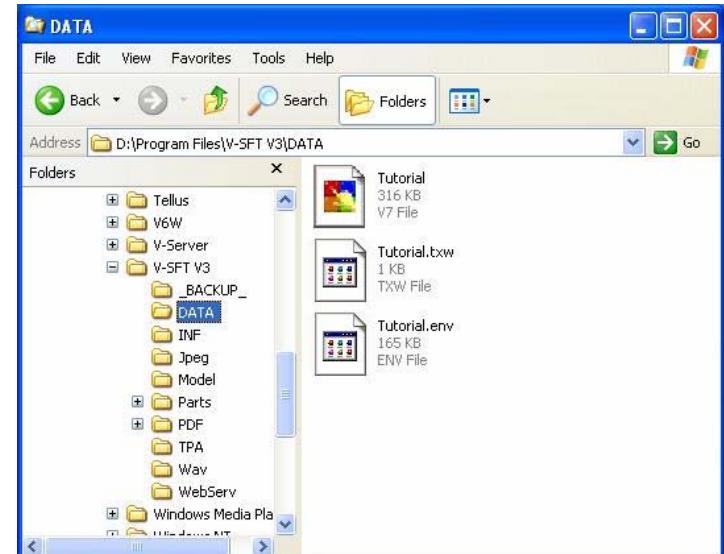
1-2) Save As...



2) Naming file and selecting "Save in"

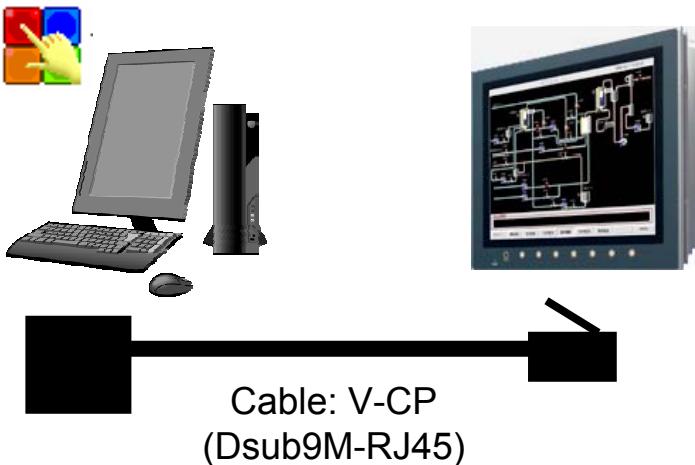


3) Created files and their extension

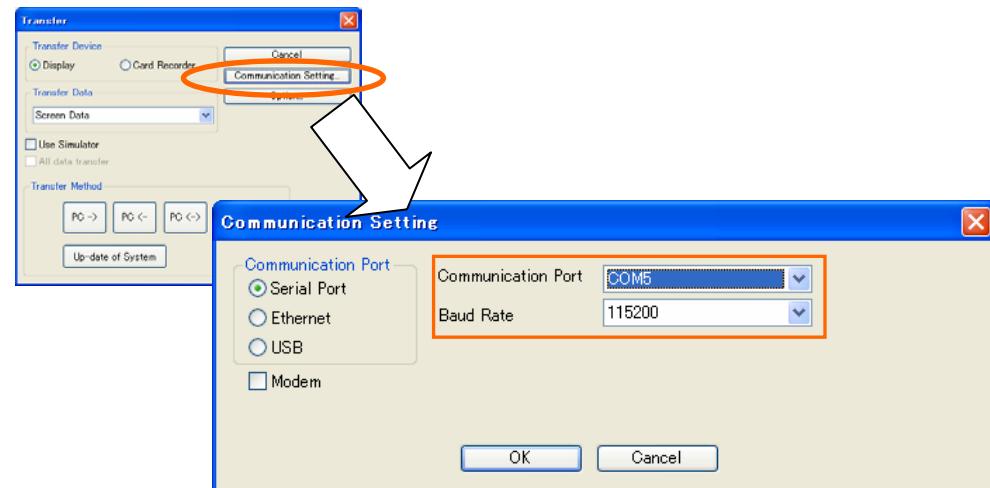


6. Transferring screen data

1) Necessary tools



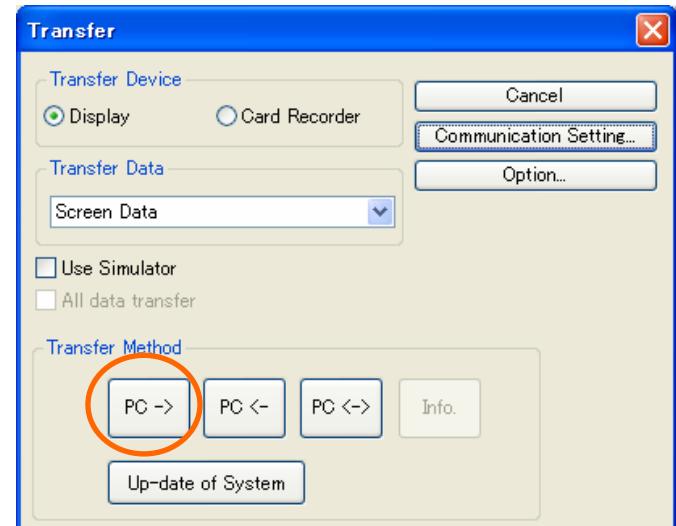
3) COM port setting



2) Connection



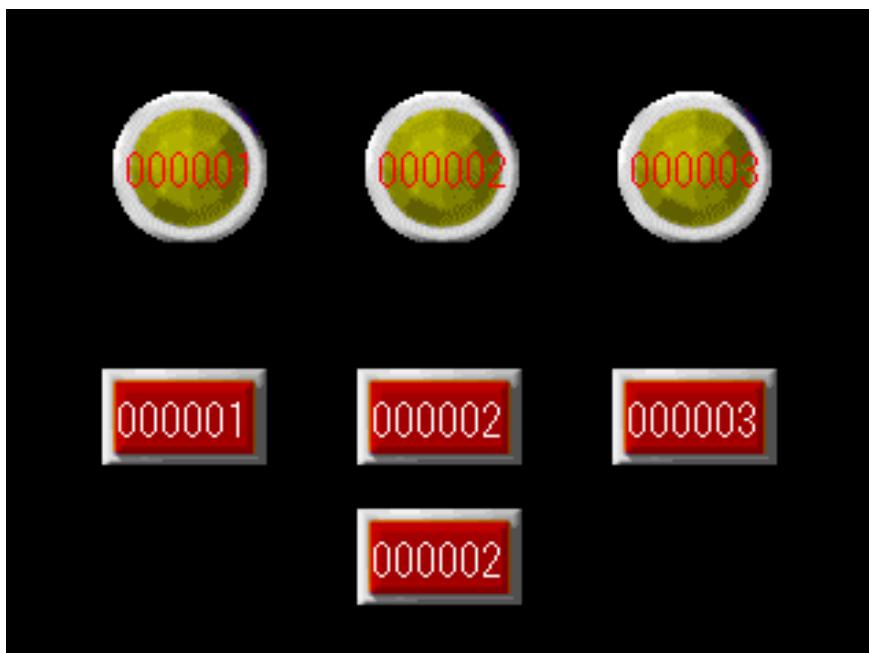
4) Transfer



2. How can I place lamps and switches?

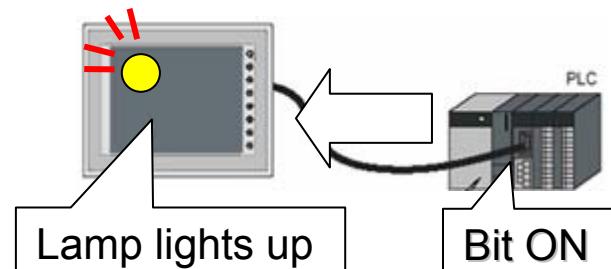


Completed screen



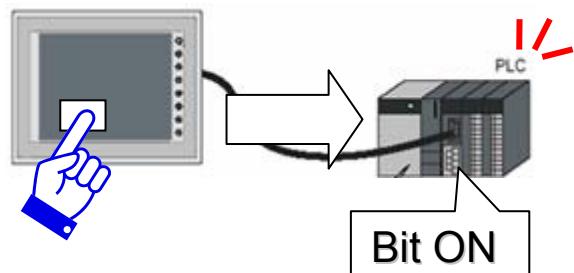
Function used : Lamp by Wizard
Switch (by Wizard

Lamp lights up and off according to bit memory's ON/OFF status.

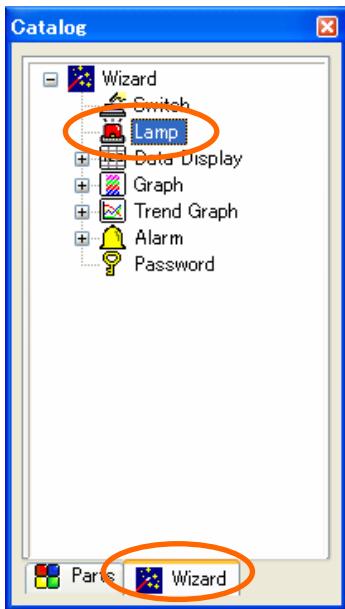


Switch controls PLC bit to ON/OFF.

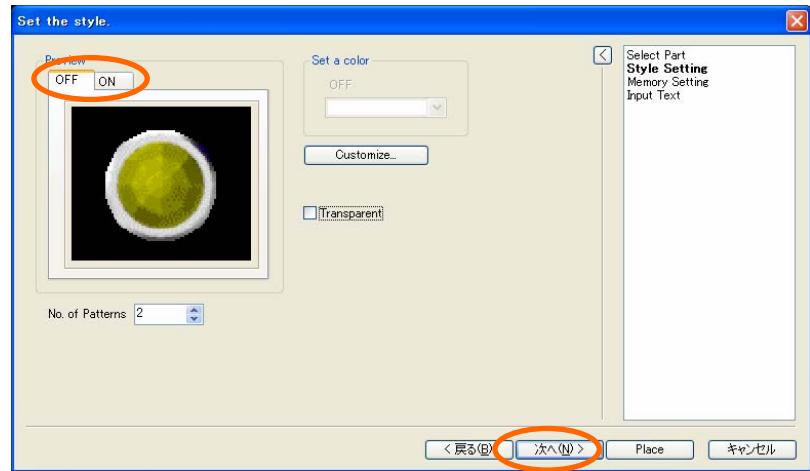
Also, wide variety of switch functions such as displaying pop-up window, switching the screens are available.



1) Start “Wizard”

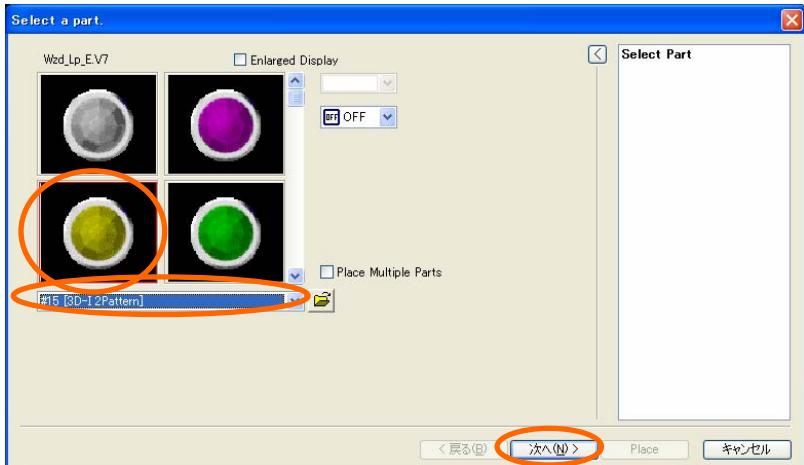


3) [Style Setting]



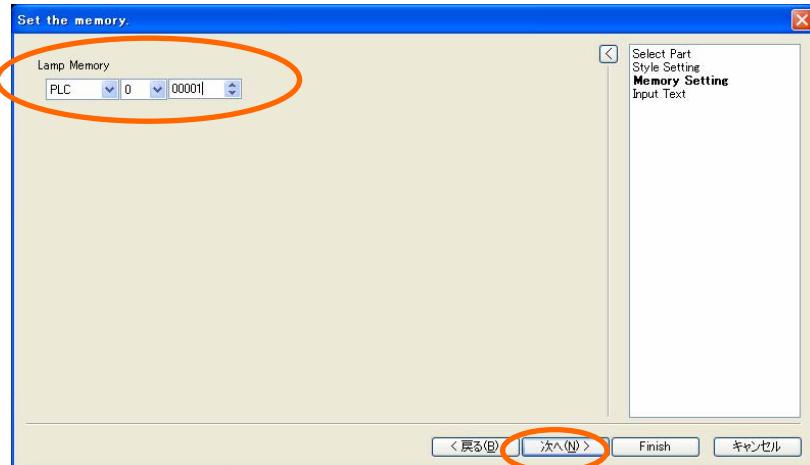
Click [Next]

2) [Select Part]



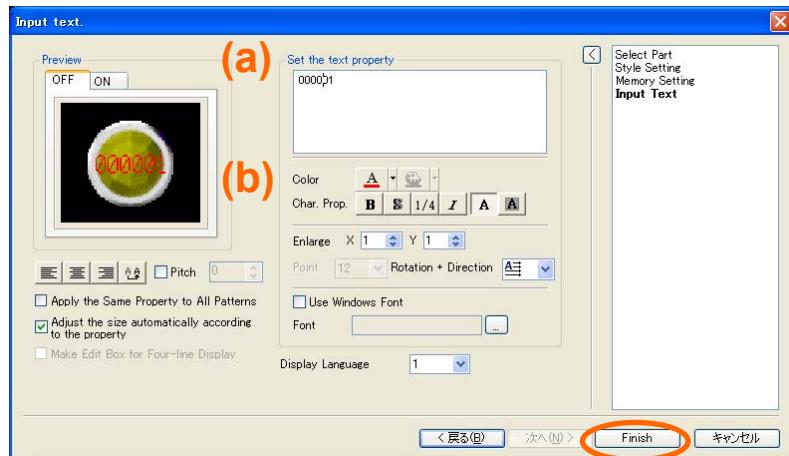
Select parts list > Select part > Click [Next]

4) [Memory Setting]

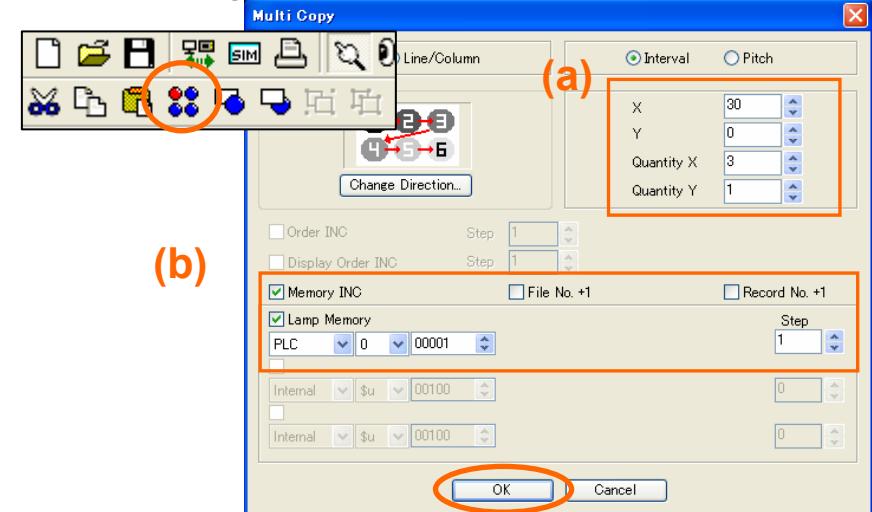


Set lamp memory > Click [Next]

5)[Input Text]

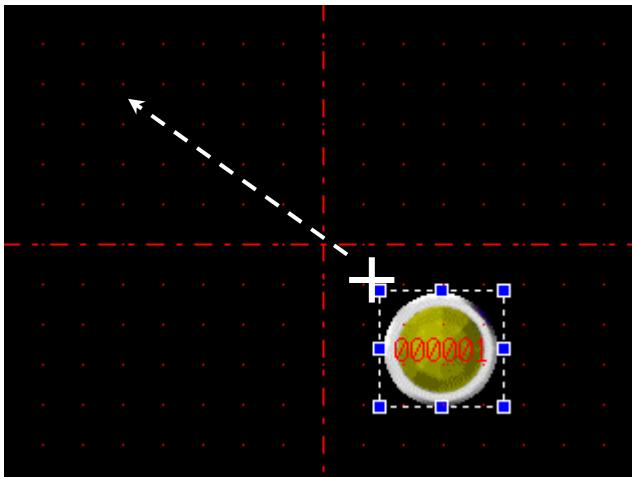


7) Multi-copy



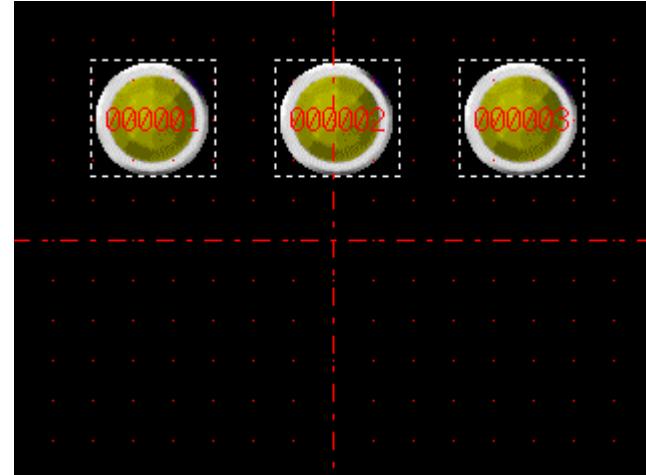
Enter text on lamp > Click [Place]

6) Placing a lamp



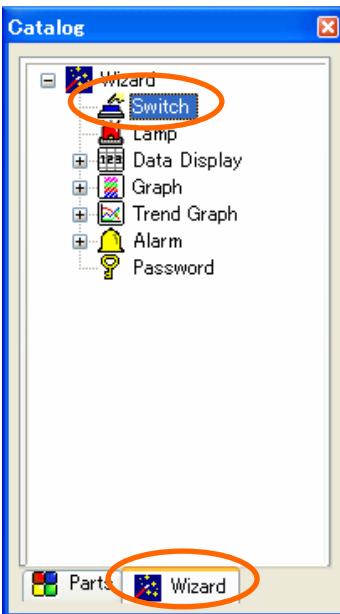
Place a lamp by dragging it

8) Placing multiple lamps



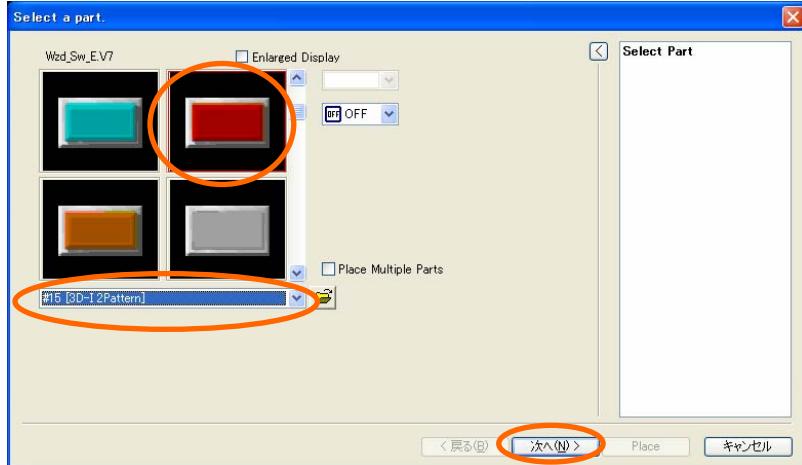
Multi-copy completed

1) Start “Wizard”



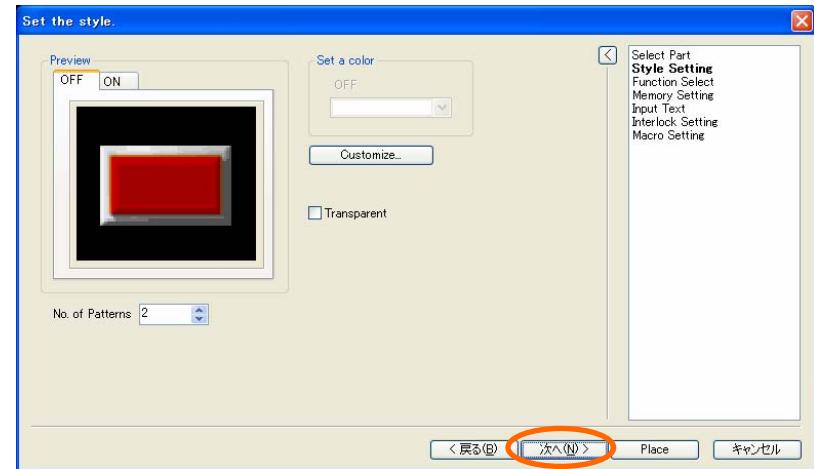
[Catalog View] > [Wizard]tab > [Switch]

2) [Select Part]



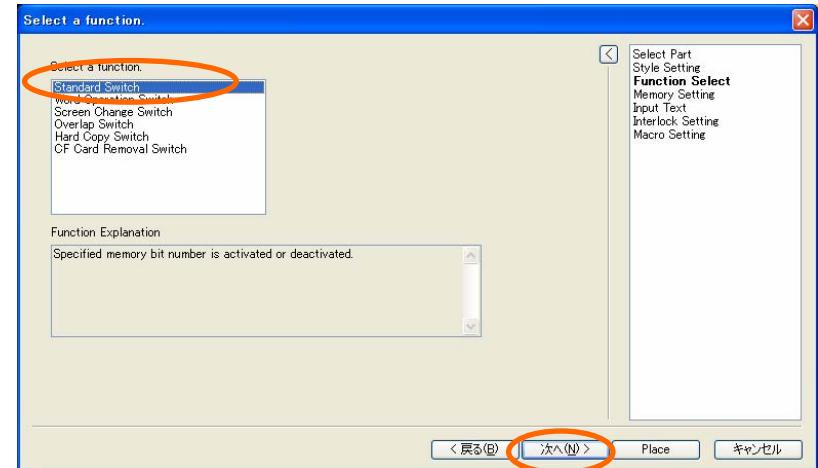
Select parts list > Select part > Click [Next]

3) [Style Setting]



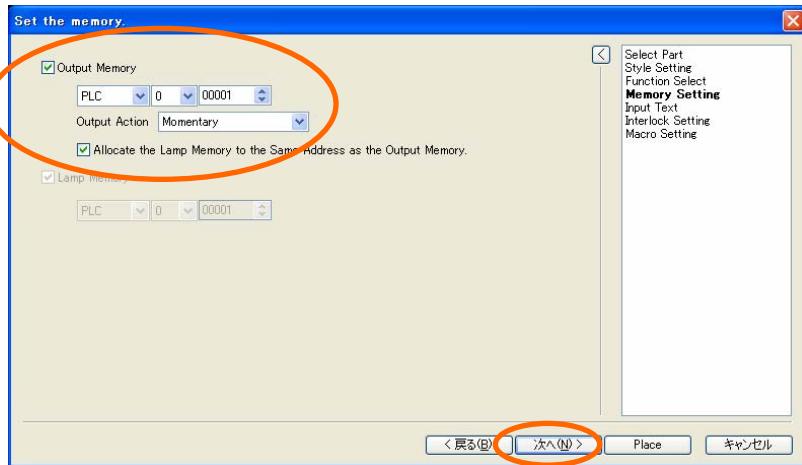
Click [Next]

4) [Function Select]



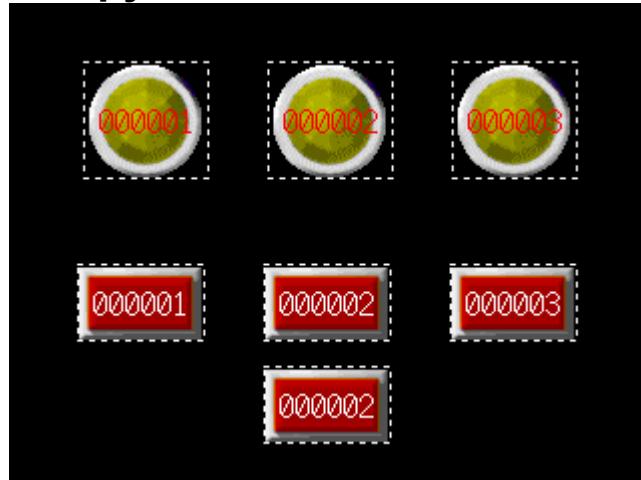
Select [Standard Switch] > Click [Next]

5) [Memory Setting]



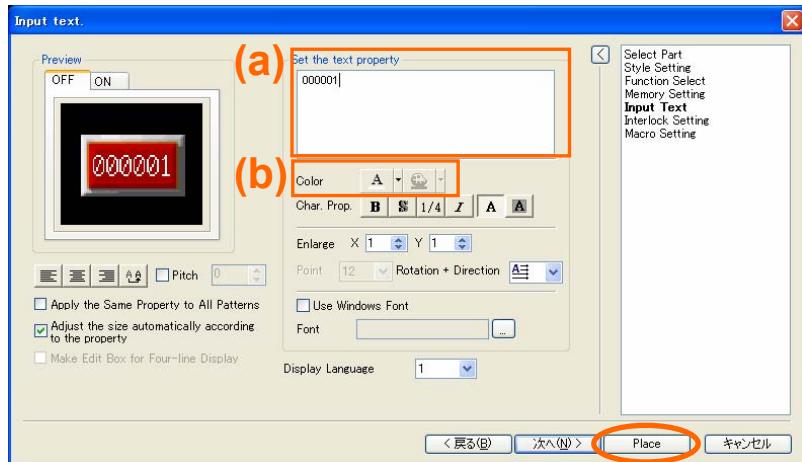
Set switch memory > Click [Next]

7) Multi-copy



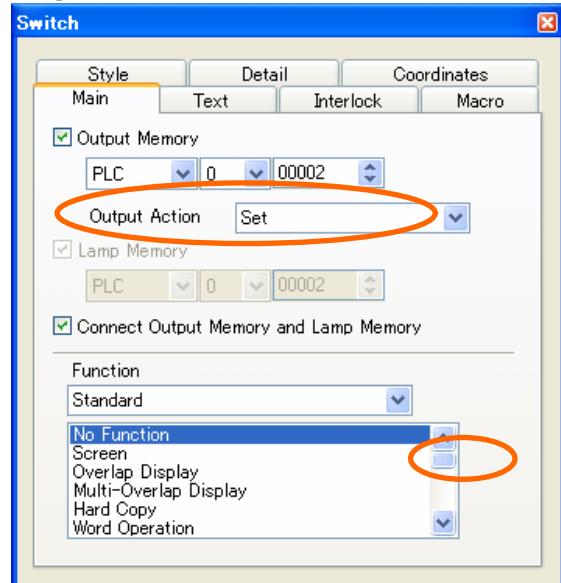
Placing 4 switches by multi-copy and copy

6) [Input Text]



Enter text on switch > Click [Place]

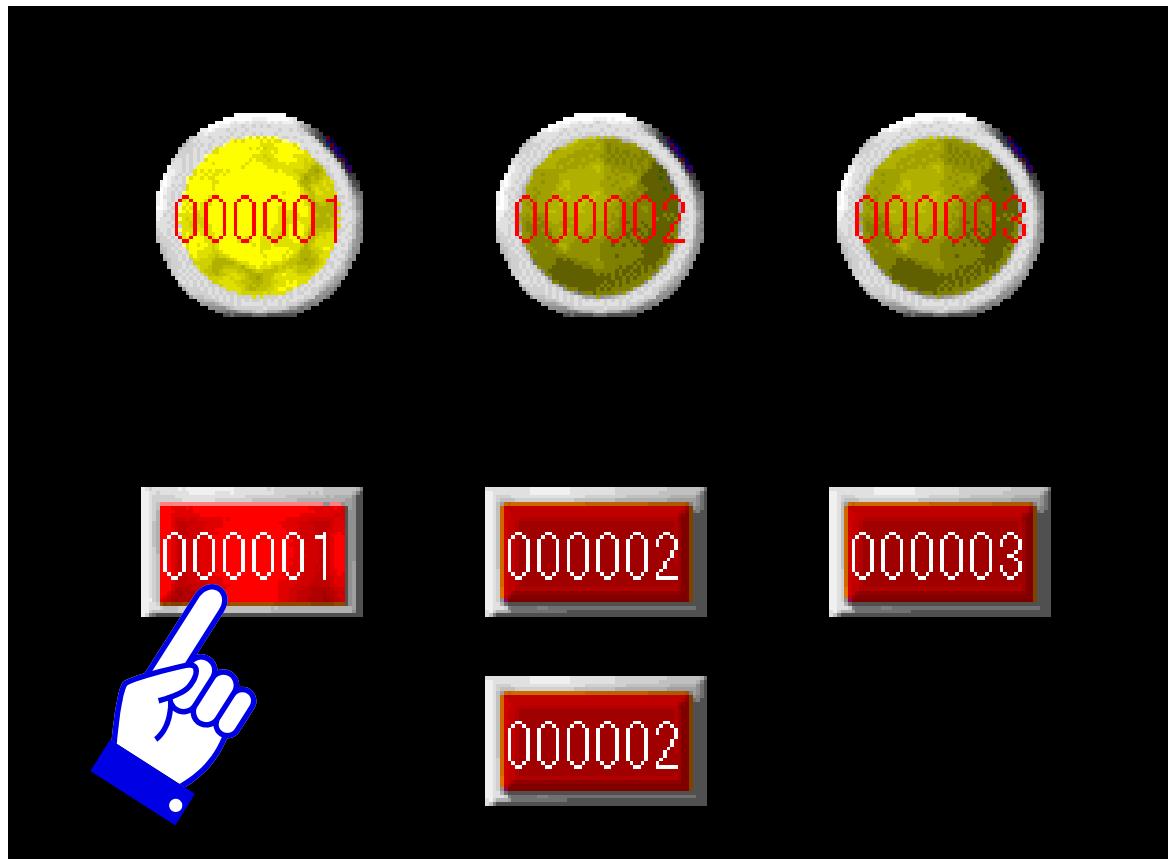
8) Setting for Output Action



Operation Check

FO MONITOUCH
Innovation through touch

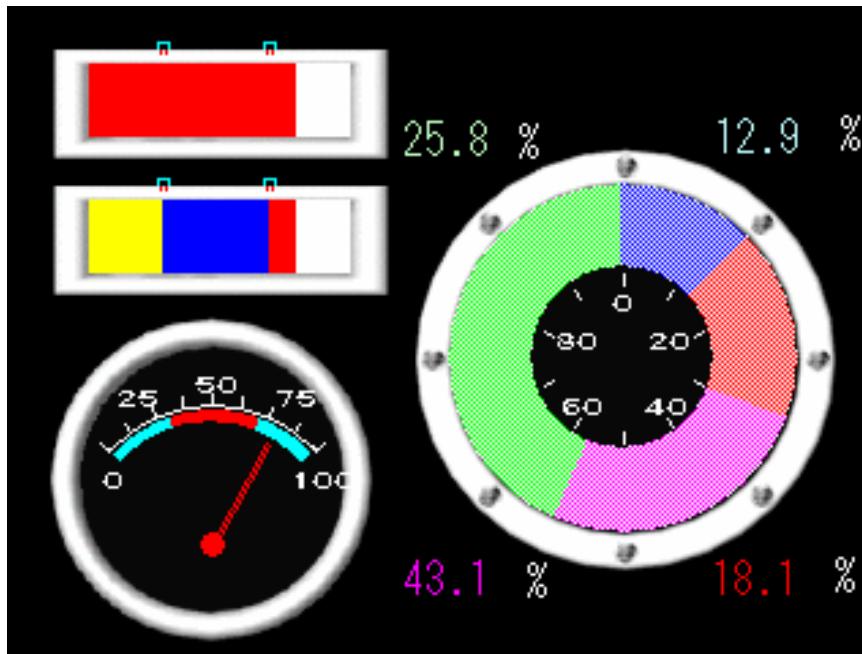
Check the function of each switch with different output action.



3. How can I display the value in PLC register in graph?

 MONITOUCH

Completed Screen



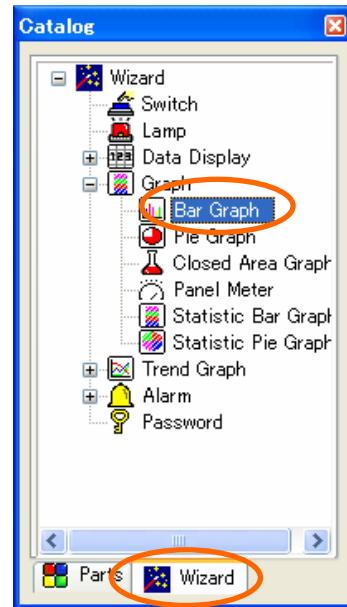
Visualizing numeric data in PLC register in graph format.

Graph can improve the visibility even more by using “Alarm” function to change the color of graph.

In this chapter, we will place a bar graph, a panel meter and a statistic pie graph.

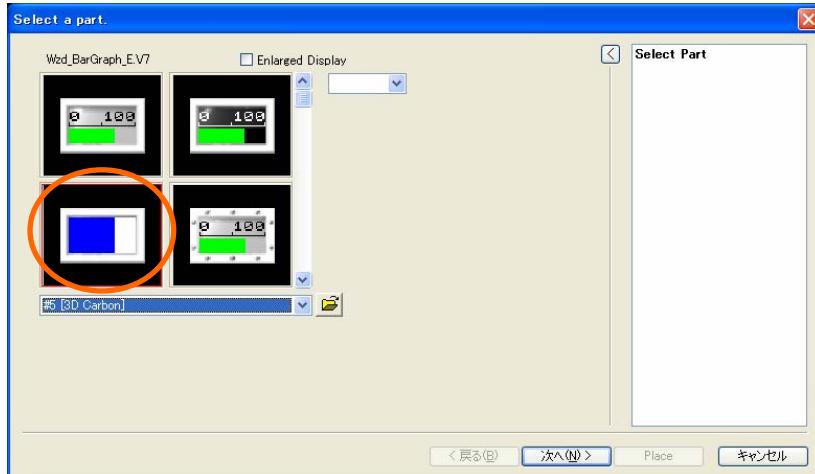
Function used:
Bar Graph (by Wizard)
Panel Meter (by Wizard)
Statistic Pie Graph (by Wizard)

1) Start “Wizard”



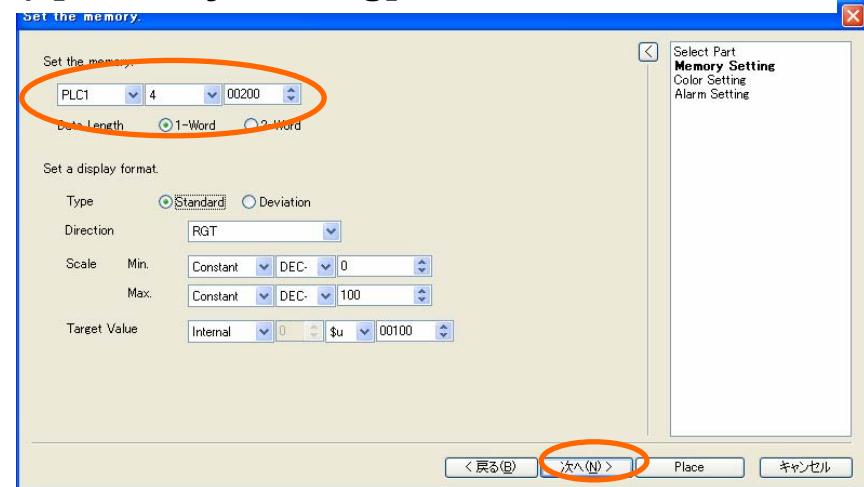
[Catalog View] > [Wizard] tab> [Graph] > [Bar Graph]

2) [Select Part]



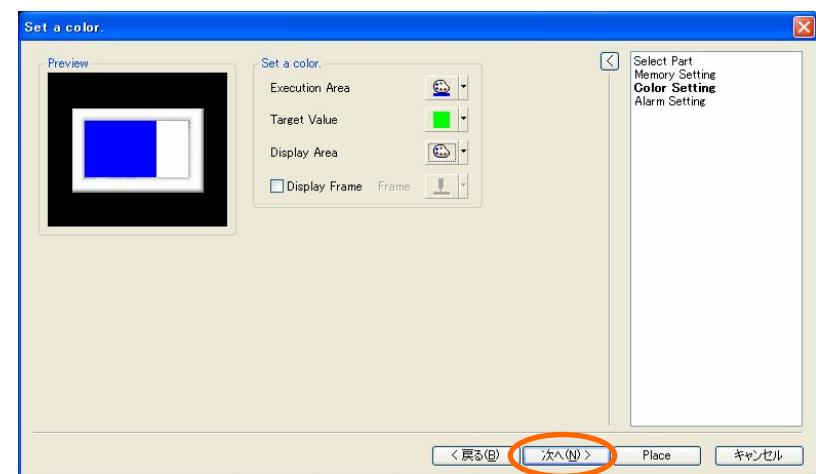
Select parts list > Select part > Click [Next]

3) [Memory Setting]



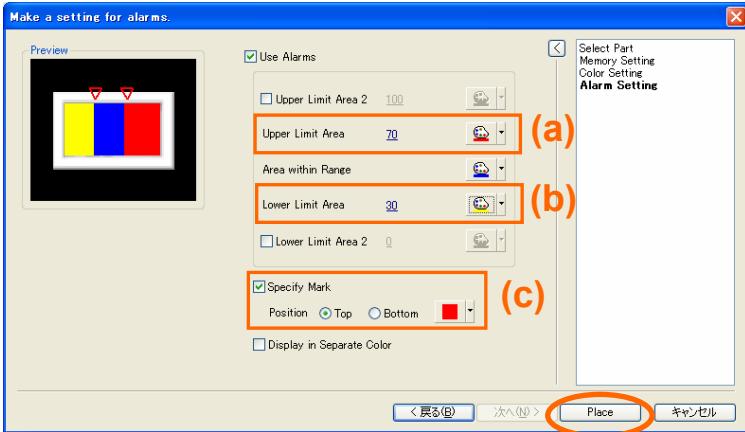
Set graph memory > Click [Next]

4) [Color Setting]

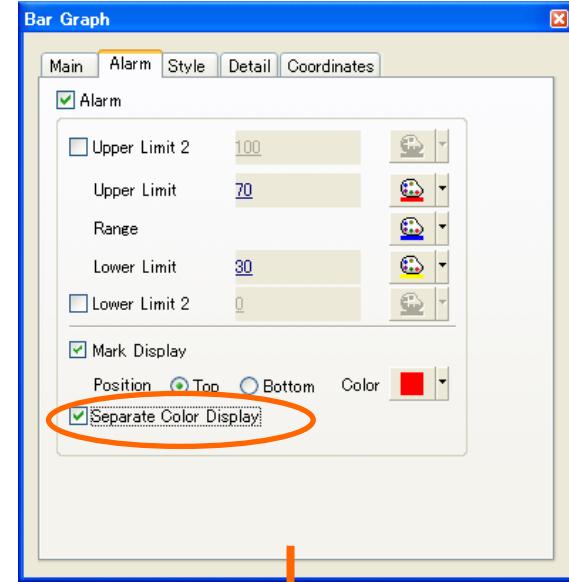


Click [Next]

5) [Alarm Setting]



7) Separate Color Display



Set alarm > Click [Place]

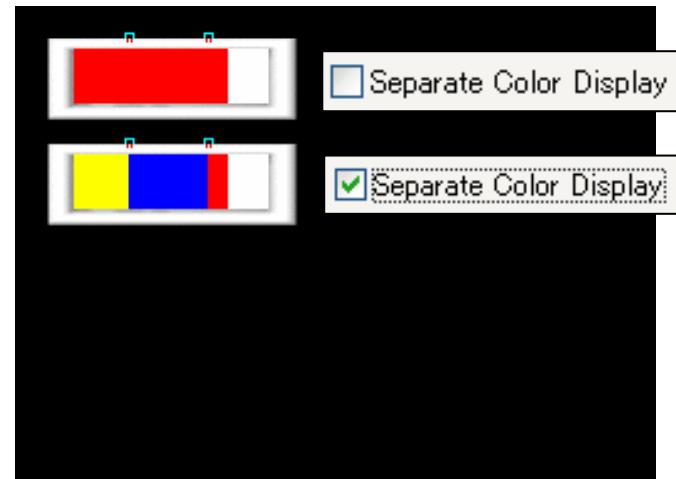
(a) Upper Limit: 70 (Red)

(b) Lower Limit: 30 (Yellow)

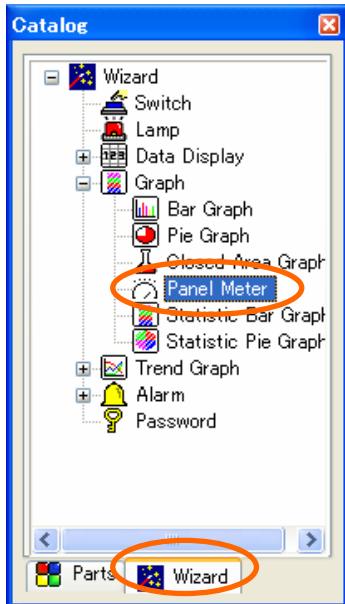
6) Copy bar graph



Copying the graph by copy & paste

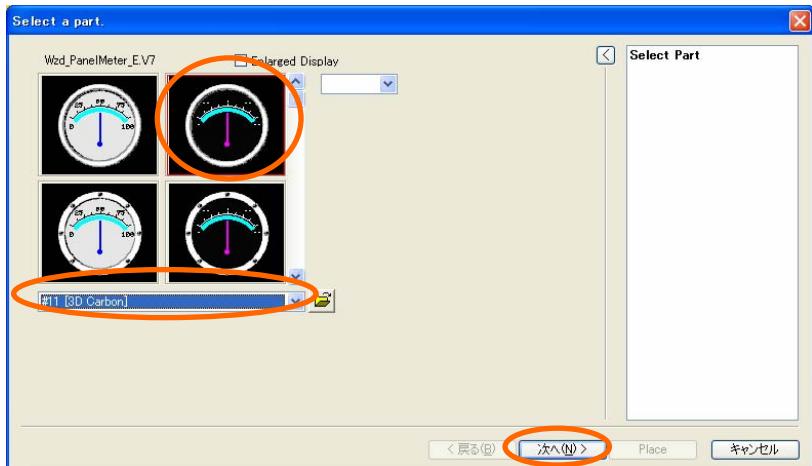


1) Start “Wizard”



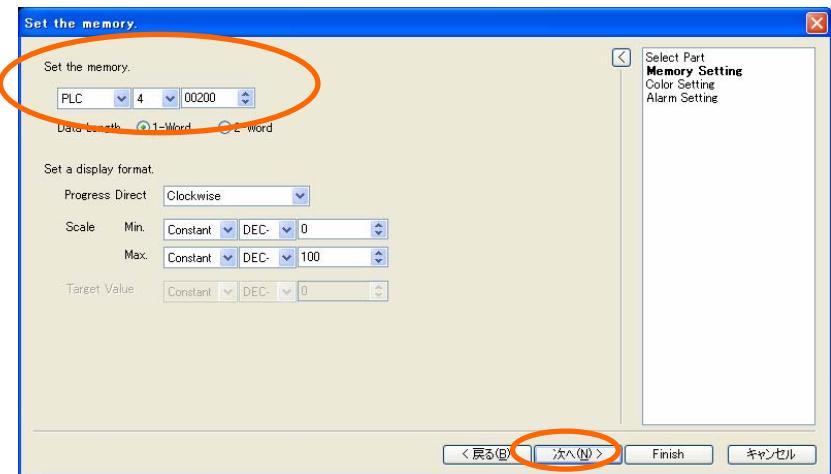
[Catalog View] > [Wizard] tab > [Graph] > [Panel Meter]

2) [Select Part]



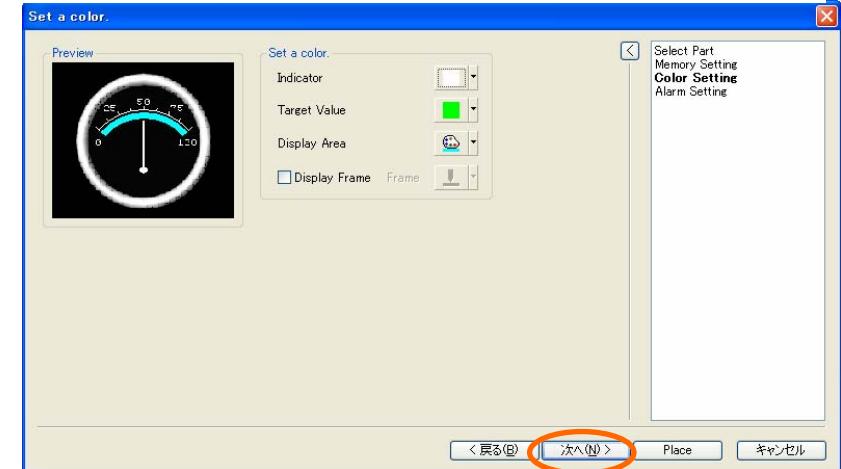
Select parts list > select part > Click [Next]

3) [Memory Setting]



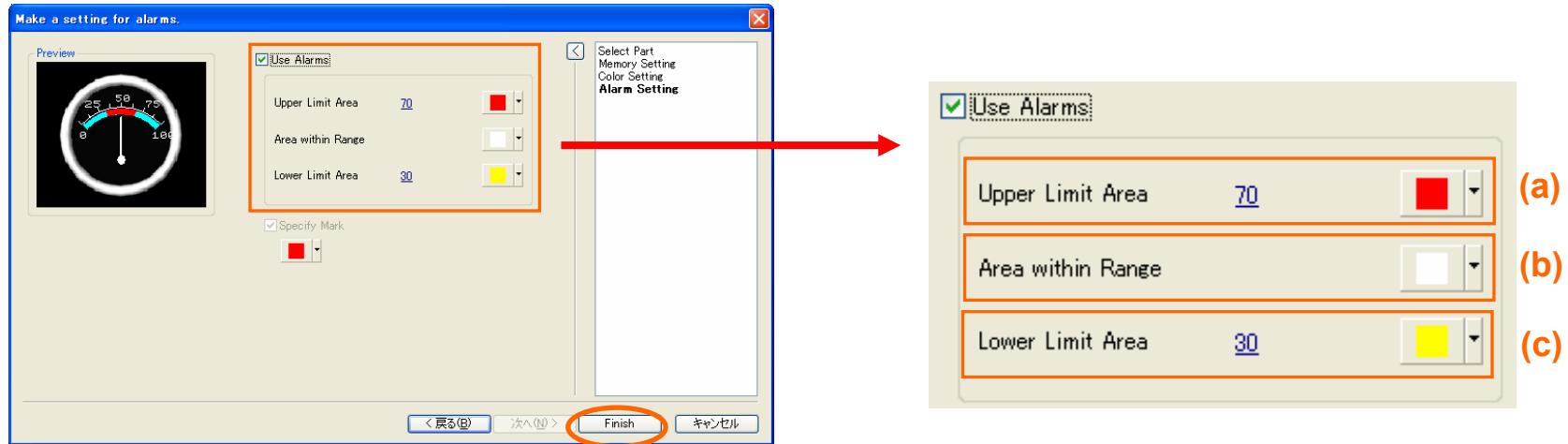
Set panel meter memory > Click [Next]

4) [Color Setting]



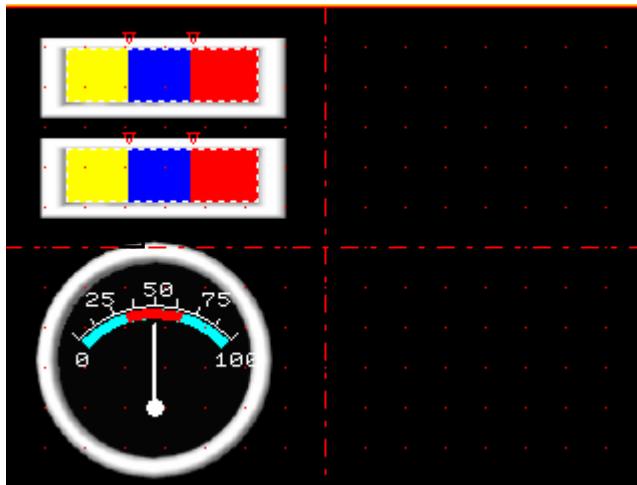
Change color for “Indicator” > Click [Next]

5) [Alarm Setting]

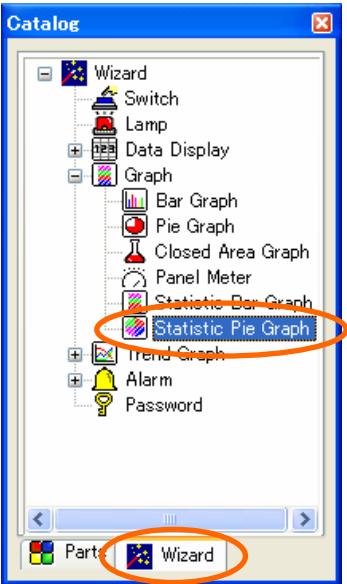


Use Alarm > Click [Place]

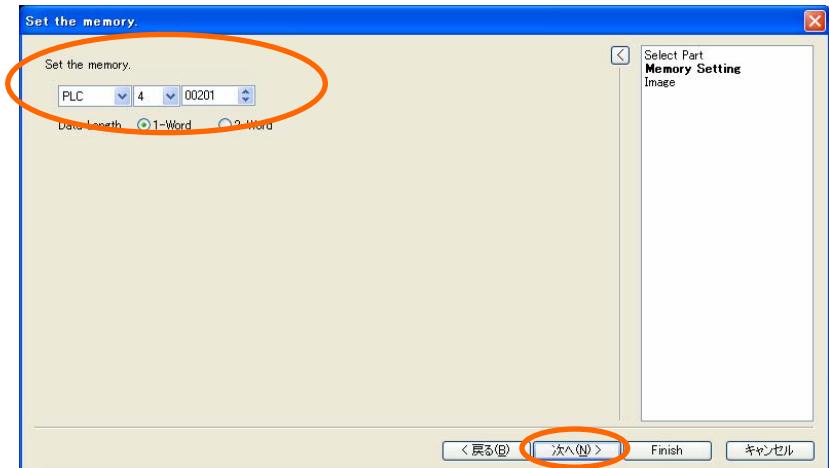
6) Placing a panel meter



1) Start “Wizard”

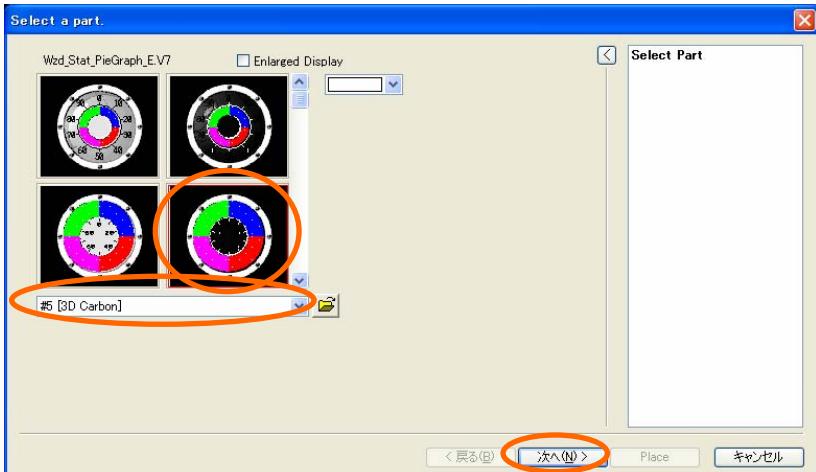


3) [Memory Setting]



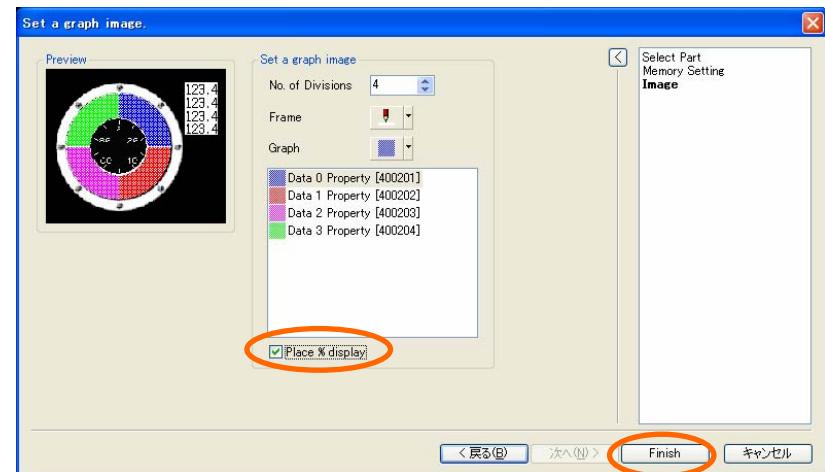
[Catalog View] > [Wizard] tab > [Graph]
>[Statistic Pie Graph]

2) [Select Part]



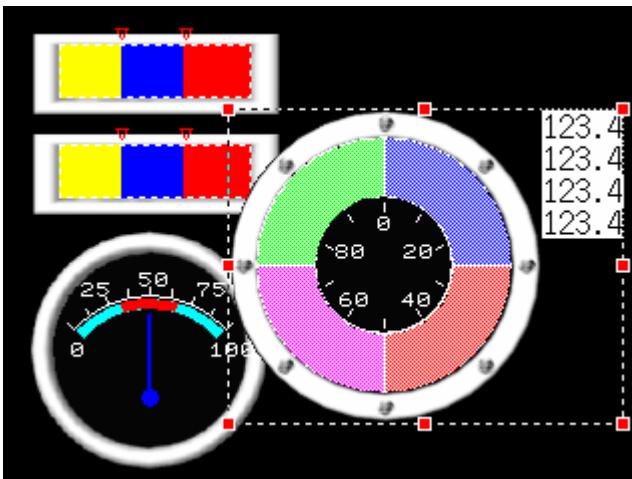
Select parts list > Select part > Click [Next]

4) [Image]

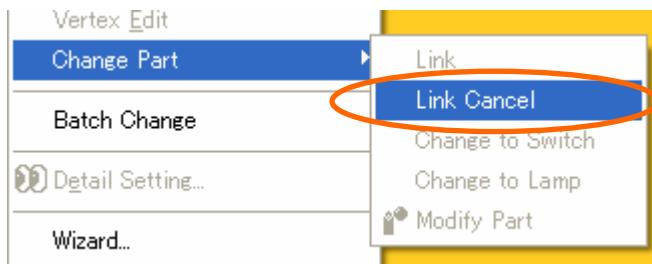


Place % display > Click [Place]

5) Placing a statistic pie graph

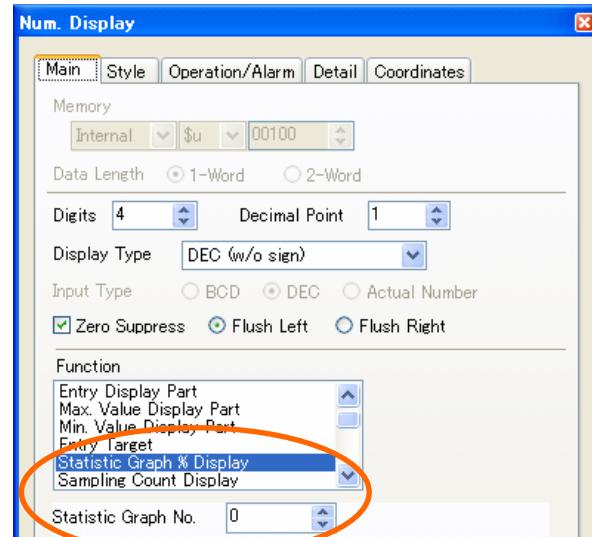


6) Link Cancel

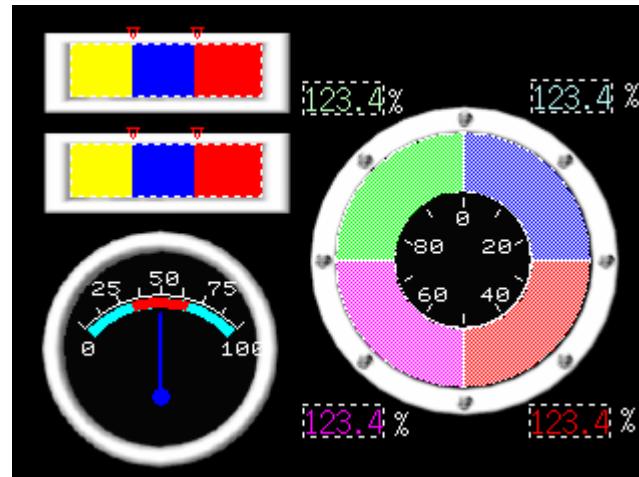


Right-click on graph > Select [Link Cancel]

7) % display



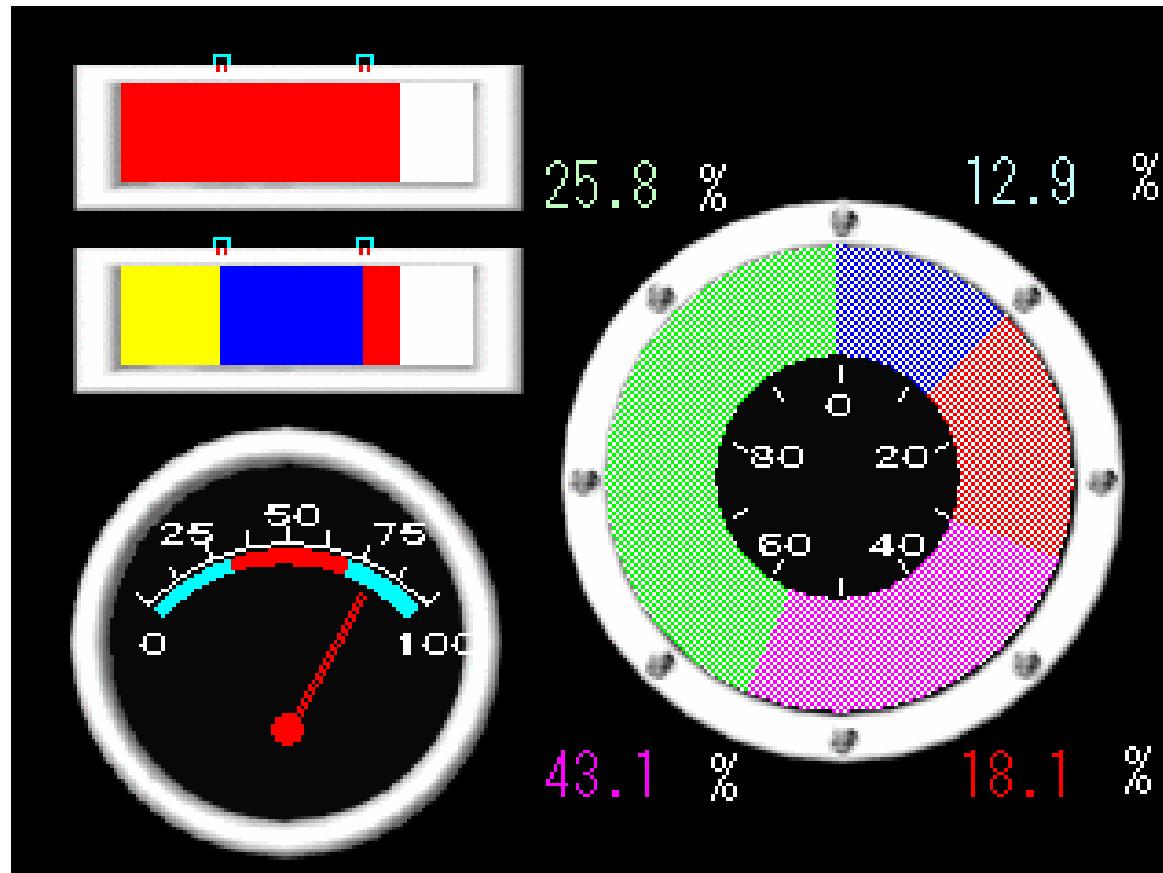
8) Placing % displays



Operation Check

MONITOUCH

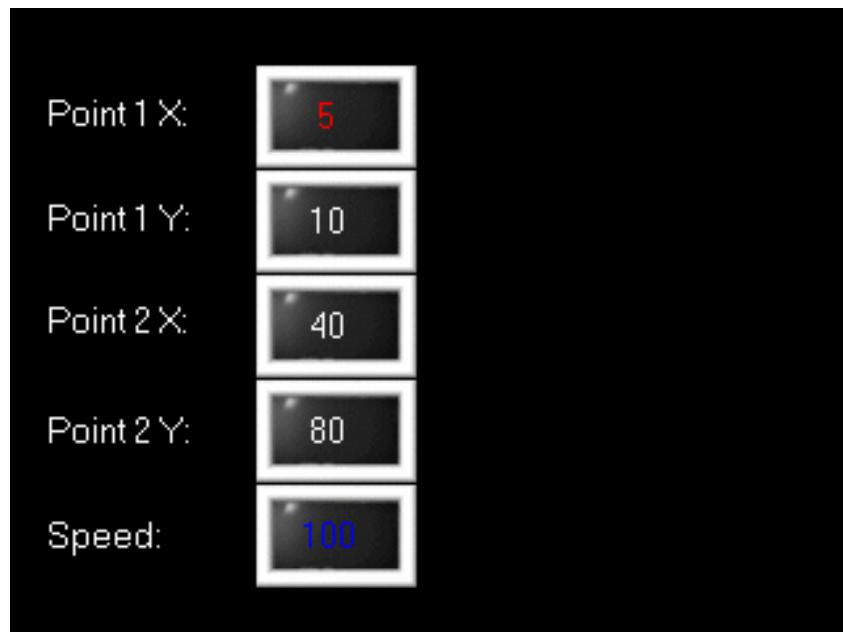
Check how each graph displays by entering the value in PLC memory.



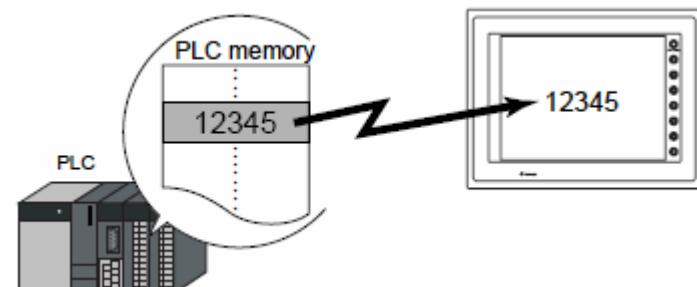
4. How can I display the value in PLC memory numerically?

MONITOUCH

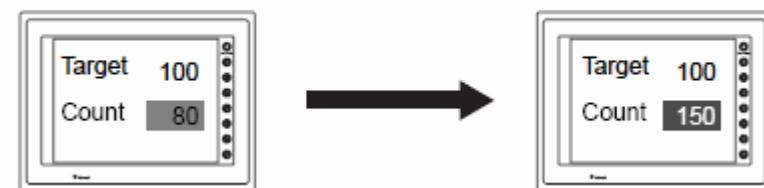
Completed screen



Displaying the value in PLC memory as numerical display on MONITOUCH.

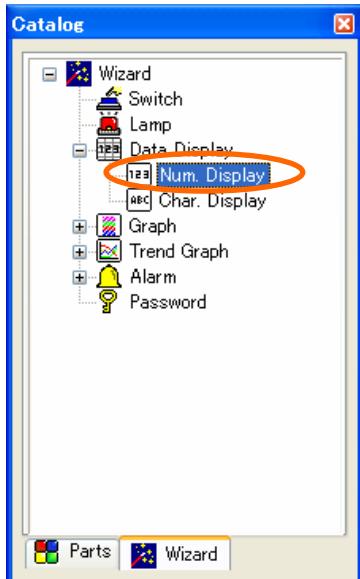


Alarm setting enables the display in different color, e.g. when exceeding a normal range.

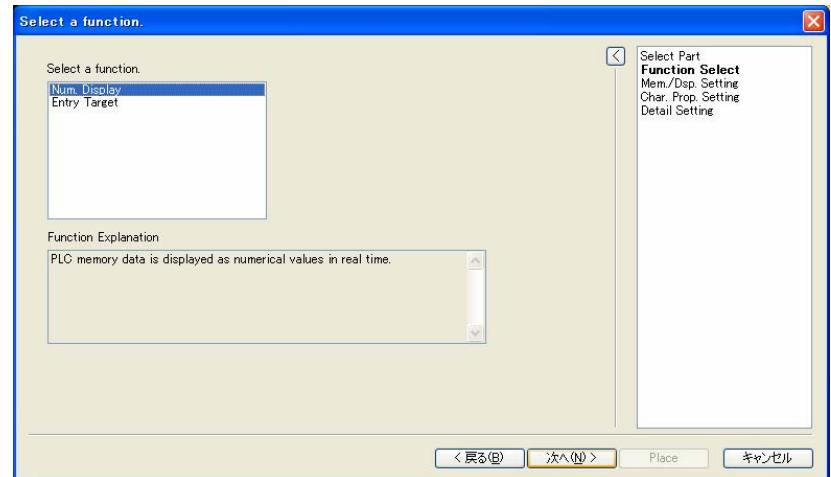


Function used: Numerical Display (by Wizard)

1) Start “Wizard”

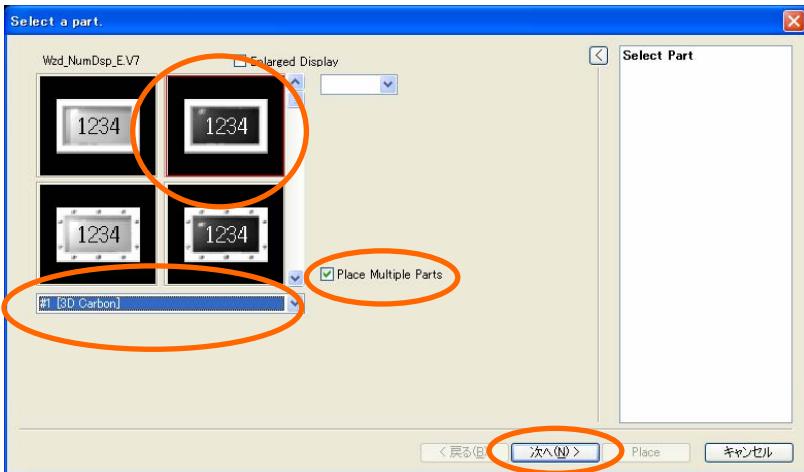


3) [Function Select]



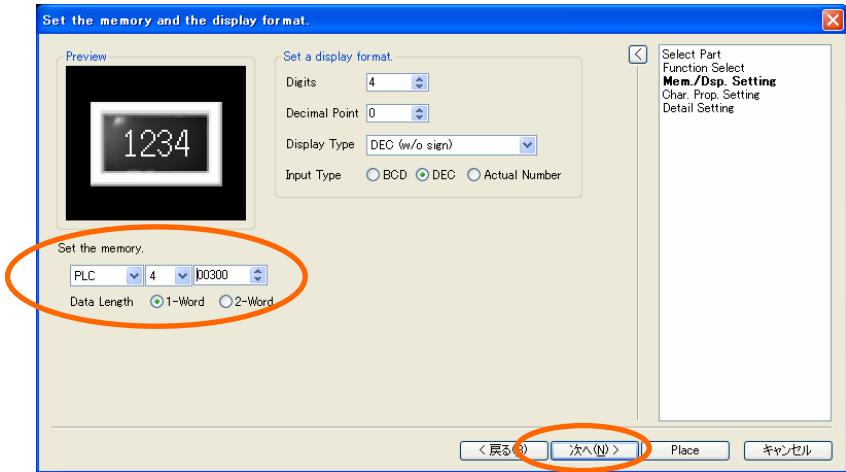
[Catalog View] > [Wizard] tab > [Data Display]
> [Num. Display]

2) [Select part]



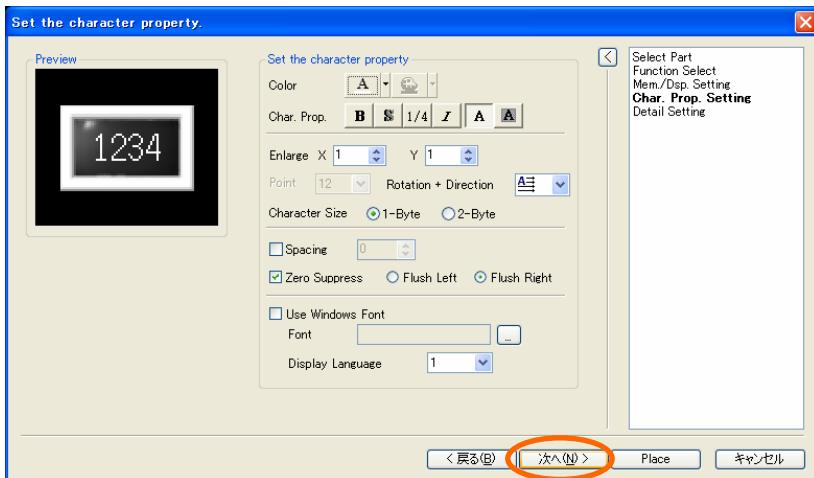
Select part > [Place Multiple Parts] > Click [Next]

4) [Mem./Dis. Setting]



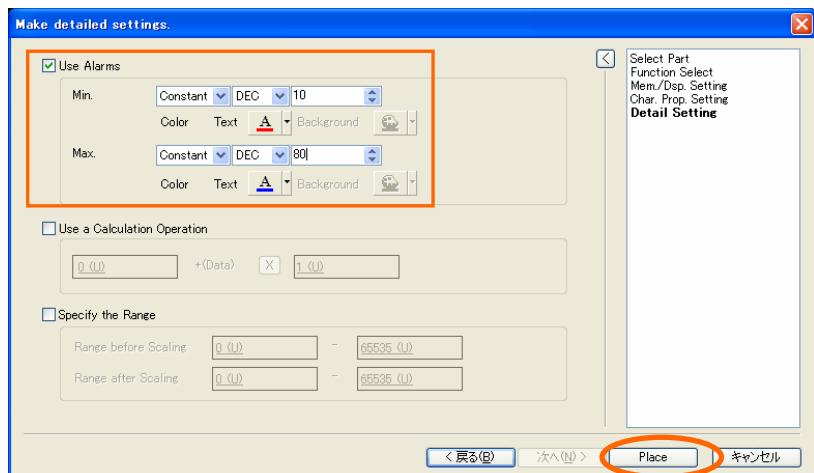
[Set the Memory] > Click [Next]

5) [Char. Prof. Setting]



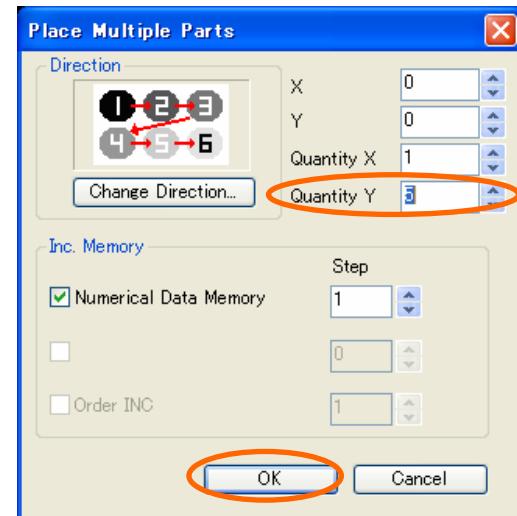
Click [Next]

6) [Detail Setting]



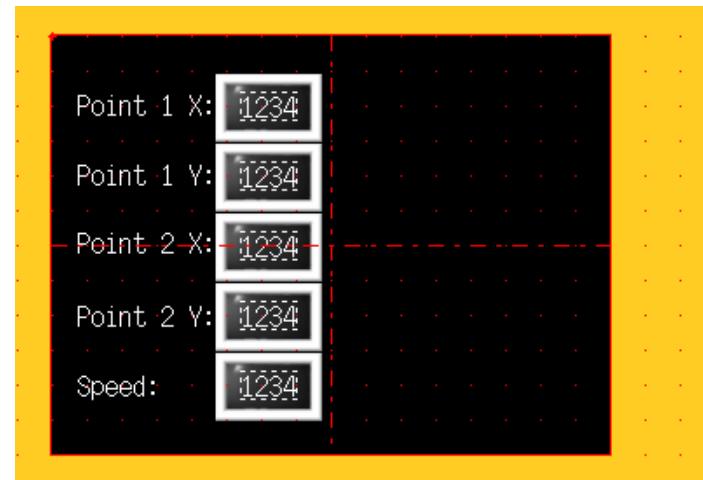
[Use Alarm] > [Max]/[Min] setting > Click [Place]

7) [Place Multiple Parts]



Set [Quantity] and [Inc. Memory] > Click [OK]

8) Num. Display and text placing

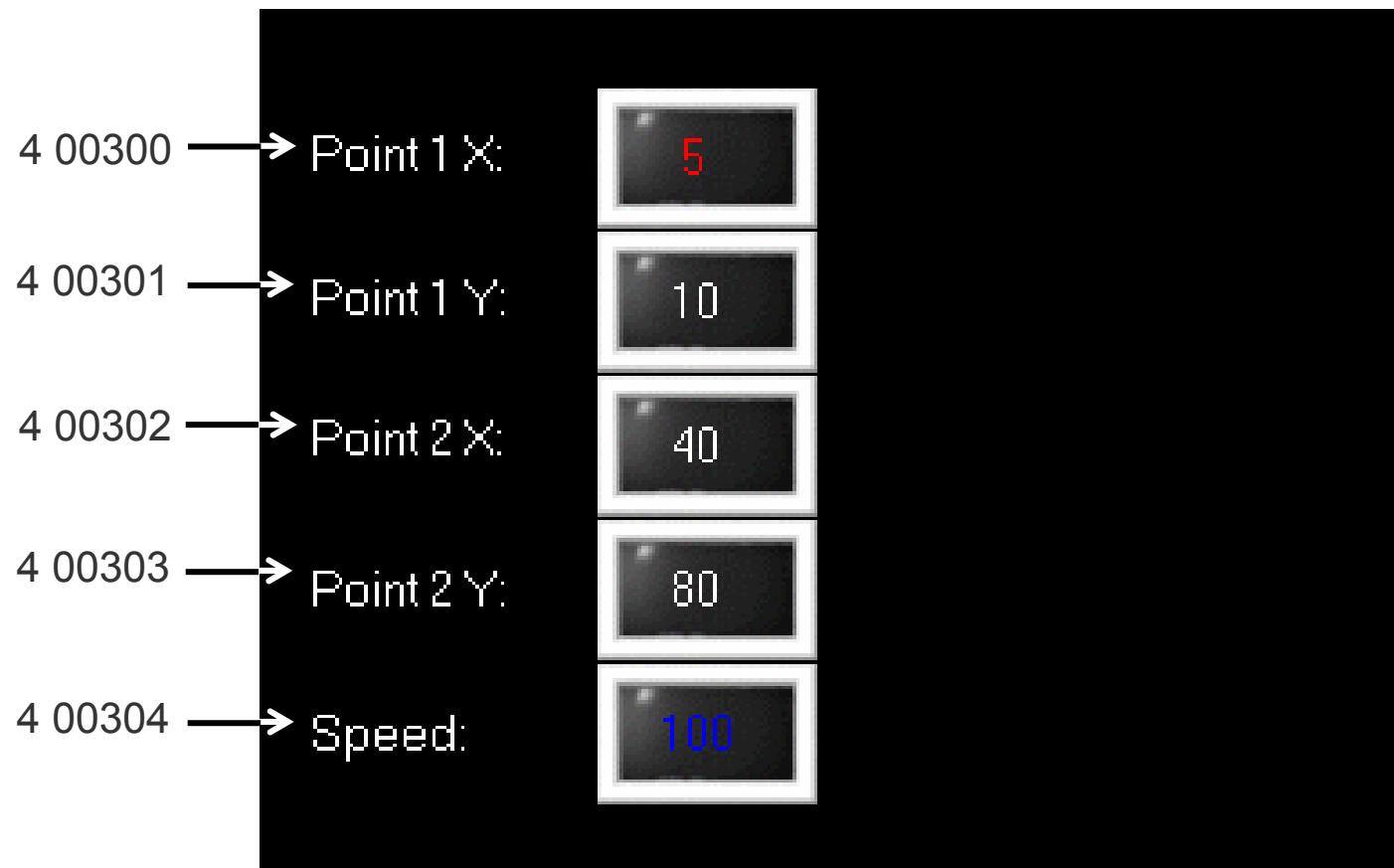


Place part > Place text

Operation Check

 MONITOUCH
e. from universe

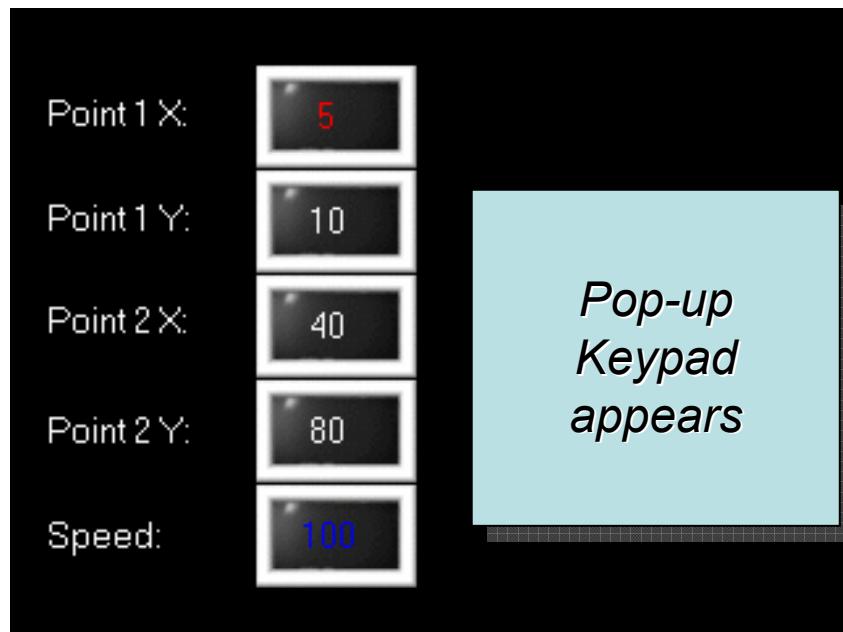
Check the display on MONITOUCH by changing the value in PLC memory 4 00300 to 4 00304.



5. How can I change the value in PLC memory from MONITOUCH?

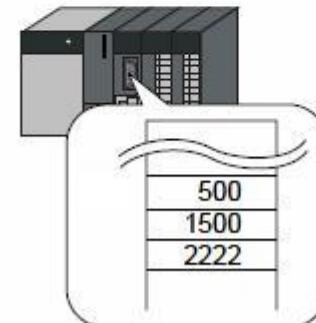
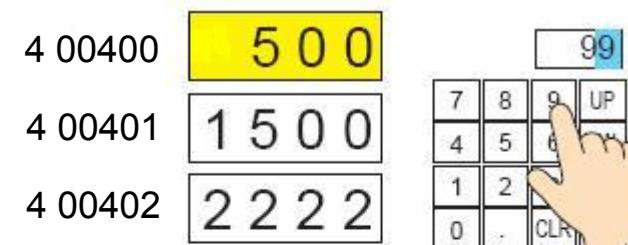


Completed screen

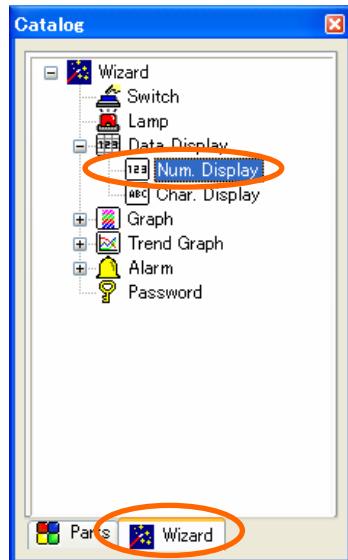


Function used: Entry Mode (by Wizard)

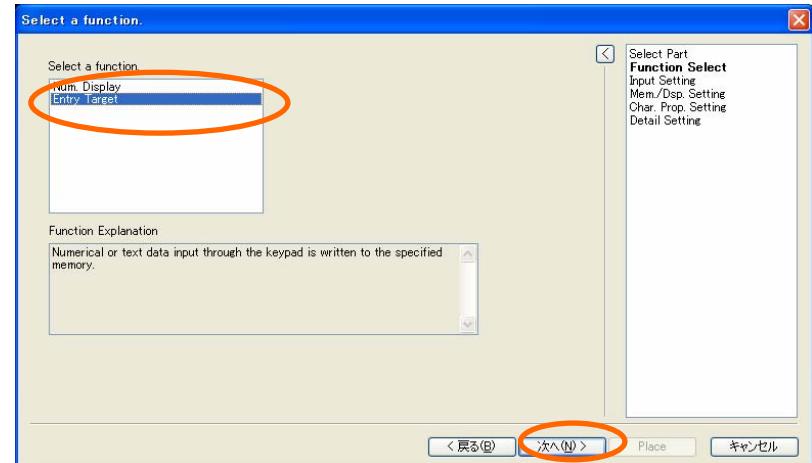
Entering the value directly to the PLC memory by using keypad on MONITOOUCH.



1) Start “Wizard”

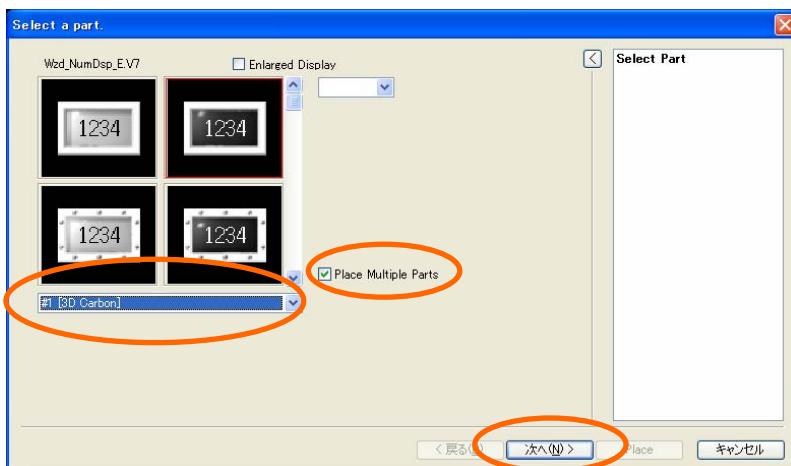


3) [Function Select]



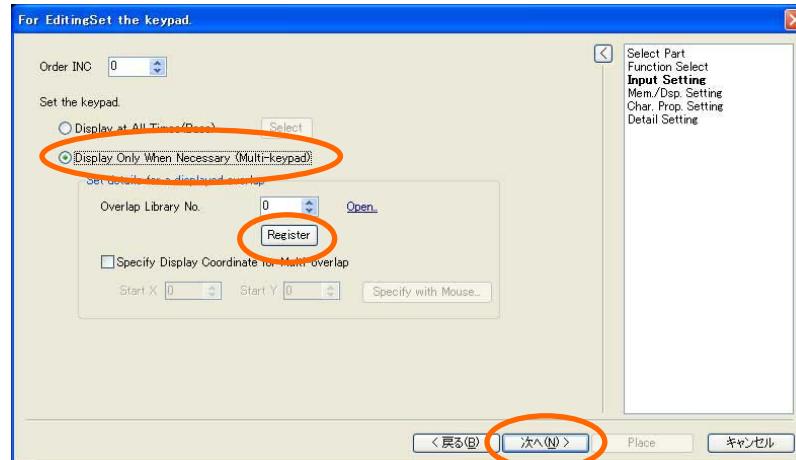
Select “Entry Target” > Click [Next]

2) [Select part]



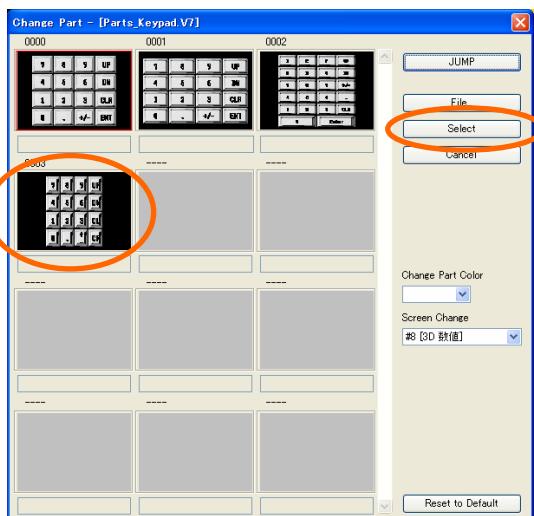
Select part > [Place Multiple Parts] > Click [Next]

4-1) [Input Setting]



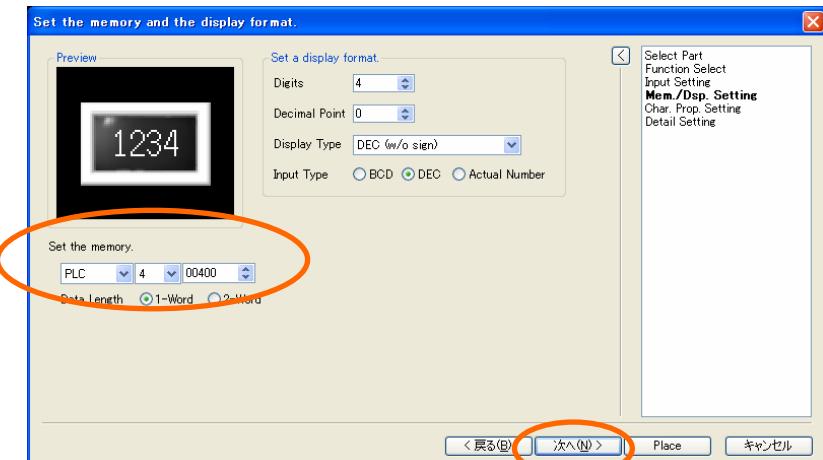
“Display only when Necessary” > “Register”

4-2) [Input Setting] (“Select” button)



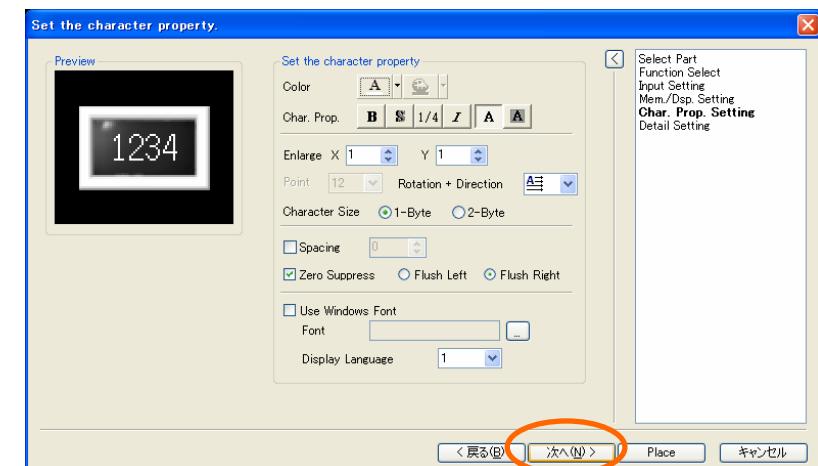
Click “Select” button > Select keypad part
> Click [Next]

5) [Mem./Dis. Setting]



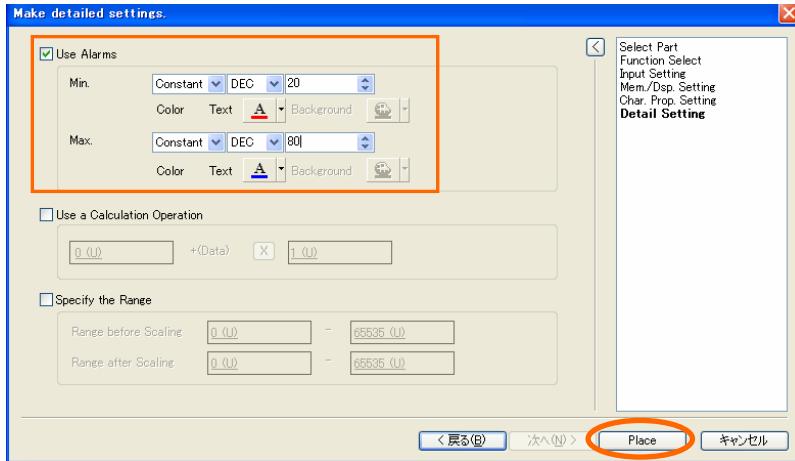
Set the Memory > Click [Next]

6) [Char. Prop. Setting]



Click [Next]

7) [Detail Setting]



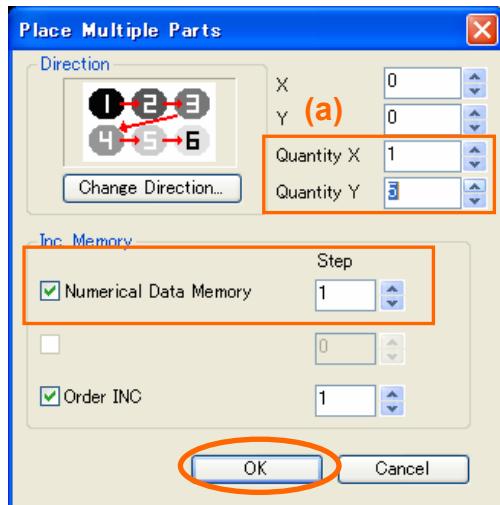
[Use Alarm] > [Max]/[Min] setting > Click [Place]

9) Place parts



Place parts on the screen

10) Position adjustment and text placement

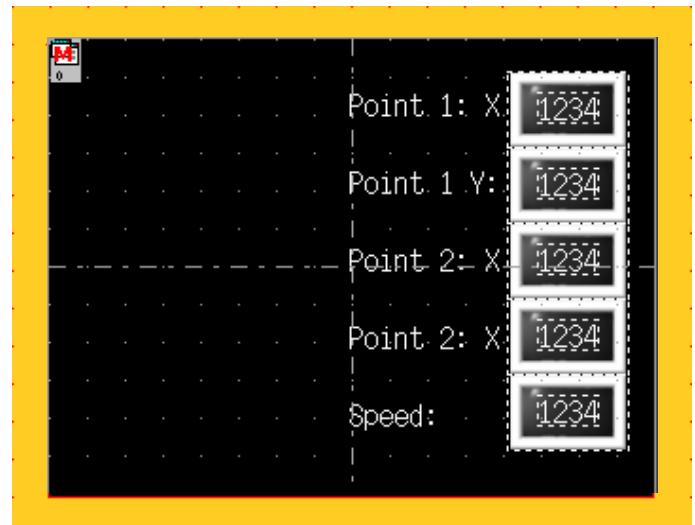


(a) Quantity X: 1

Quantity Y: 5

(b) Numerical
Data Memory : 1

Set [Quantity] > [OK]

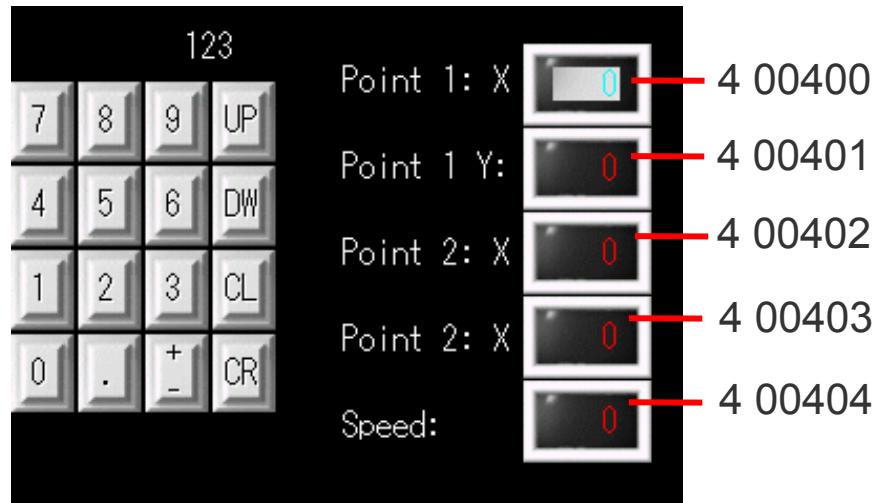
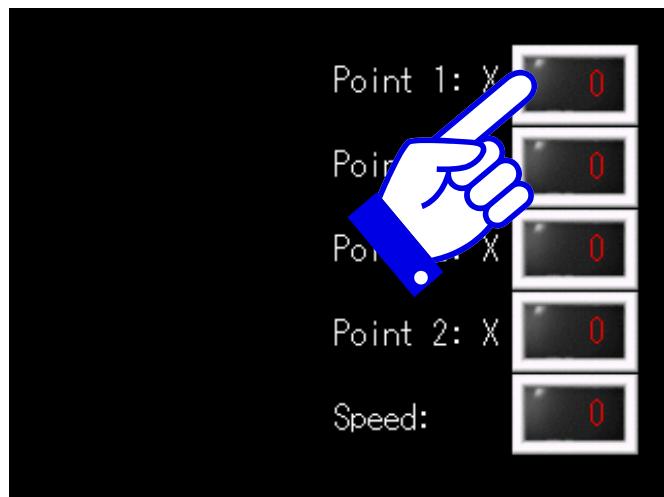


Adjust the parts position > Place texts

Operation Check

MONITOUCH

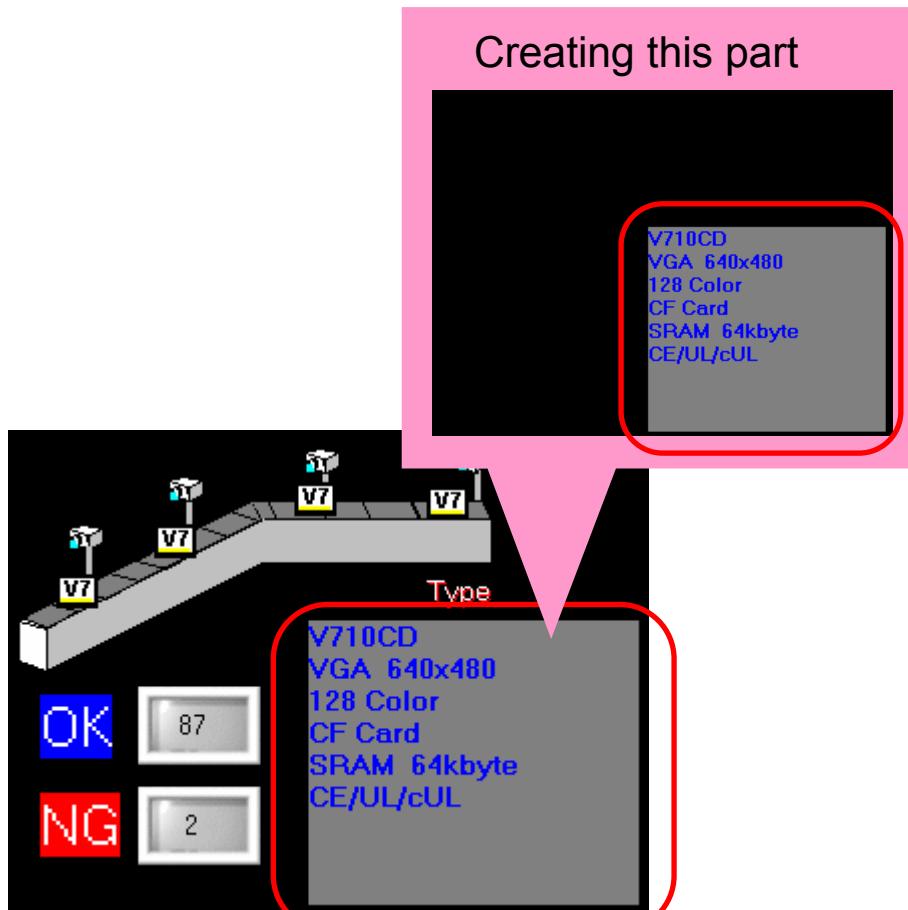
Let's try to enter the value using a keypad.



6. How can I display the message?



Completed screen

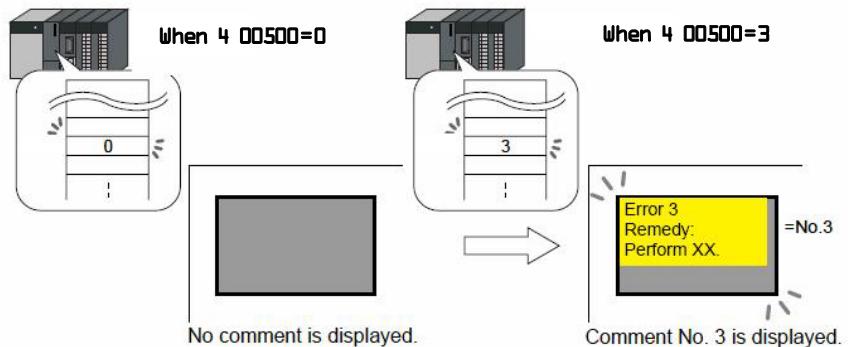


Function used: Comment Display

Registering the messages beforehand and display them according to the value in PLC memory.

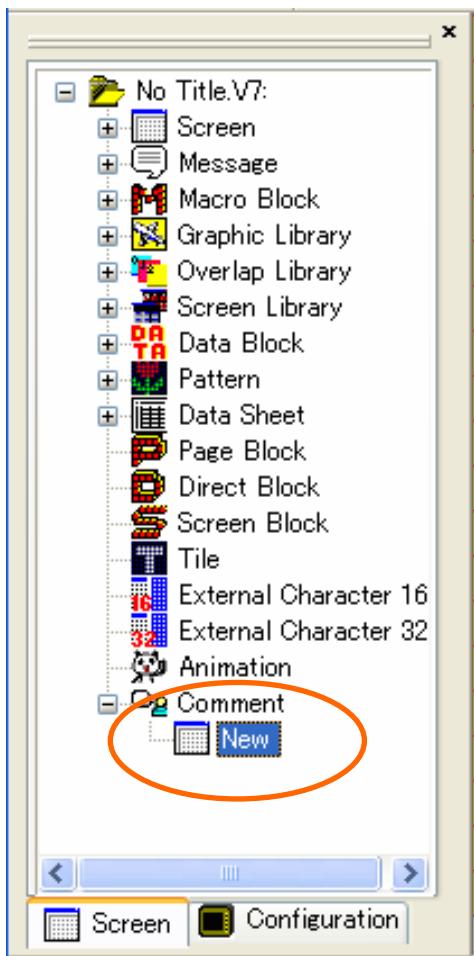
Comment editing	
No.1	Error 1
No.2	Error 2
No.3	Error 3 Remedy: Perform XX.
No.4	Error 4

1) Linking the message and PLC memory beforehand...



2) Enter the value to PLC memory and the corresponding message is prompted.

1) Project View

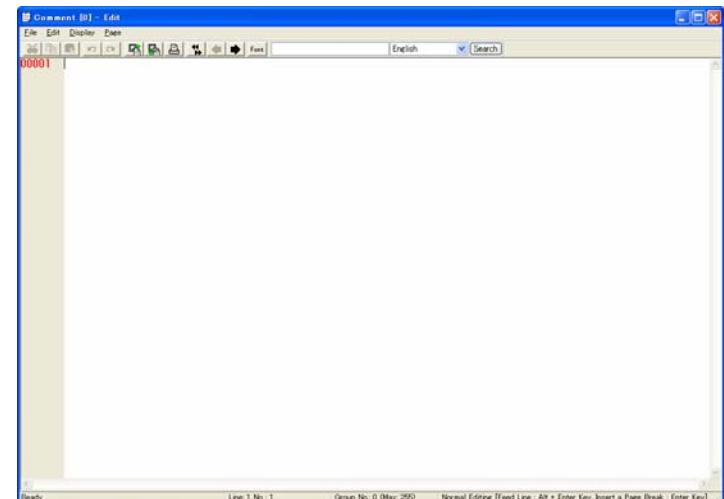


2) Selecting “Group No.”



Group "0">> Click [OK]

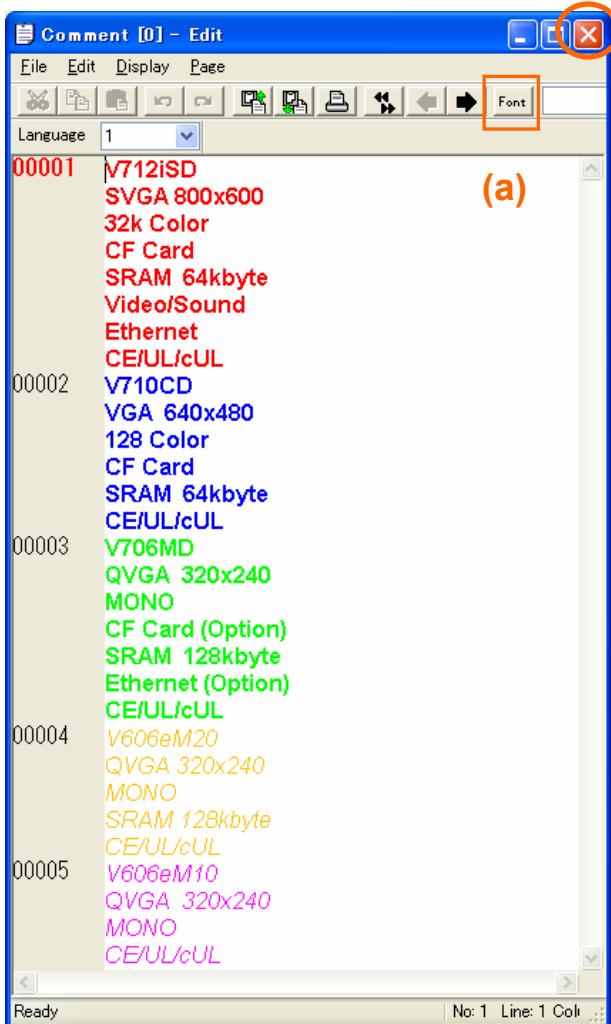
3) Open [Comment Edit] dialog



[Comment Edit] dialog is prompted.

[Project View] > [Screen] tab > [Comment]
> [New]

4) Edit Comment



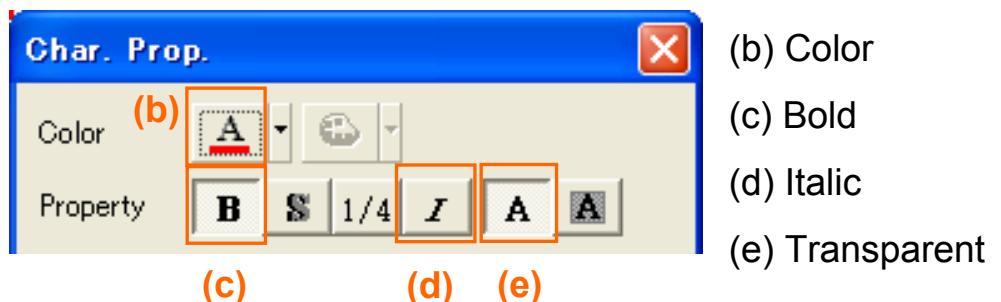
Edit "Comment"

> Click [X] button to close the dialog

4-1) Editing "Comment" as follows:

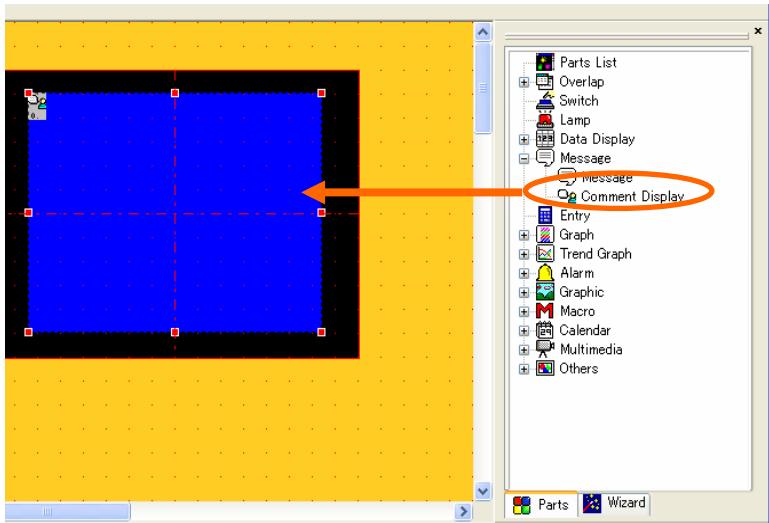
Comment 1: V712iSD **Comment 3:** V706MD
SVGA 800x600 QVGA 320x240
32k Color MONO
CF Card CF Card (Option)
SRAM 64kbyte SRAM 128kbyte
Video/Sound Ethernet (Option)
Ethernet CE/UL/cUL
CE/UL/cUL **Comment 4:** V606eM20
Comment 2: V710CD QVGA 320x240
VGA 640x480 MONO
128 Color SRAM 128kbyte
CF Card CE/UL/cUL
SRAM 64kbyte **Comment 5:** V606eM10
CE/UL/cUL QVGA 320x240
V706MD MONO
QVGA 320x240 MONO
CF Card (Option) CE/UL/cUL
SRAM 128kbyte V606eM10
Ethernet (Option) QVGA 320x240
CE/UL/cUL MONO
V606eM20 CE/UL/cUL
QVGA 320x240 V606eM10
MONO QVGA 320x240
SRAM 128kbyte MONO
CE/UL/cUL CE/UL/cUL
V606eM10 CE/UL/cUL
QVGA 320x240 CE/UL/cUL
MONO CE/UL/cUL
CE/UL/cUL

4-2) [Font] setting (Click (a))



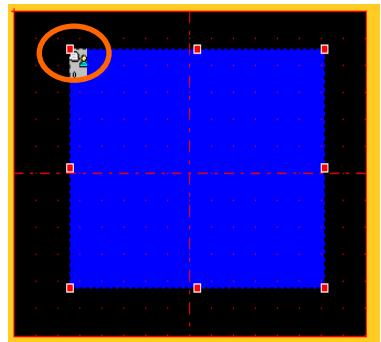
- (b) Color
- (c) Bold
- (d) Italic
- (e) Transparent

5) Place “Comment Display”

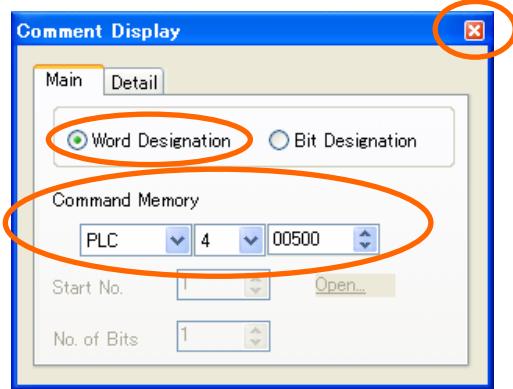


[Catalog View] > [Message] > [Comment Display]
> Drag

6) “Comment Display” setting

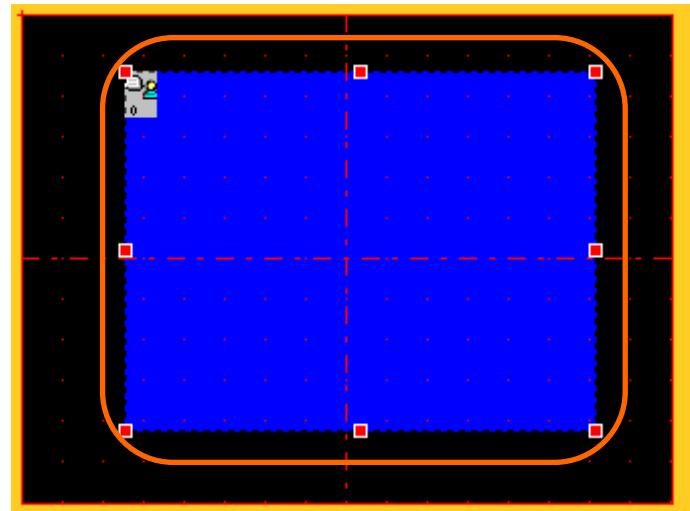


Double-click the icon
> [Comment Display]
dialog prompted

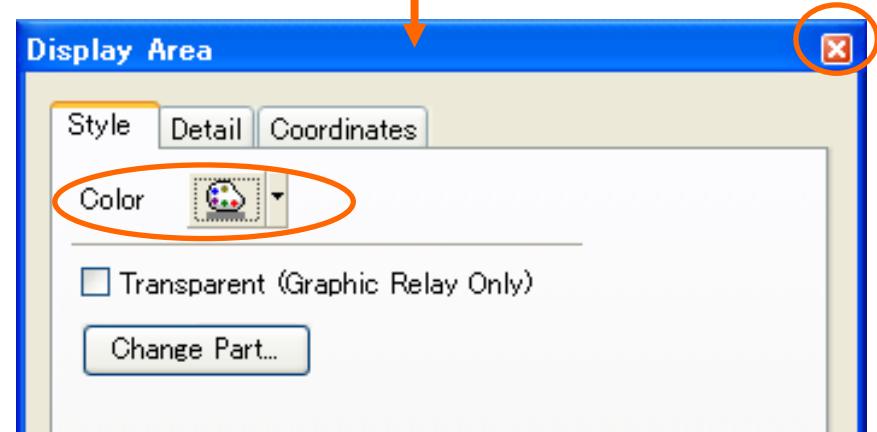


Select [Word Designation]
> Set [Command Memory]
Command Memory : 4 00500

7) “Display Area” dialog

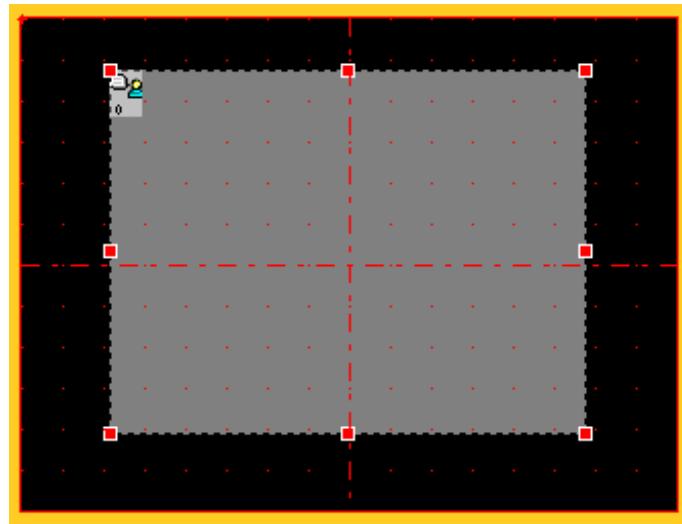


Double-click “Display Area”
> [Display Area] dialog prompted.



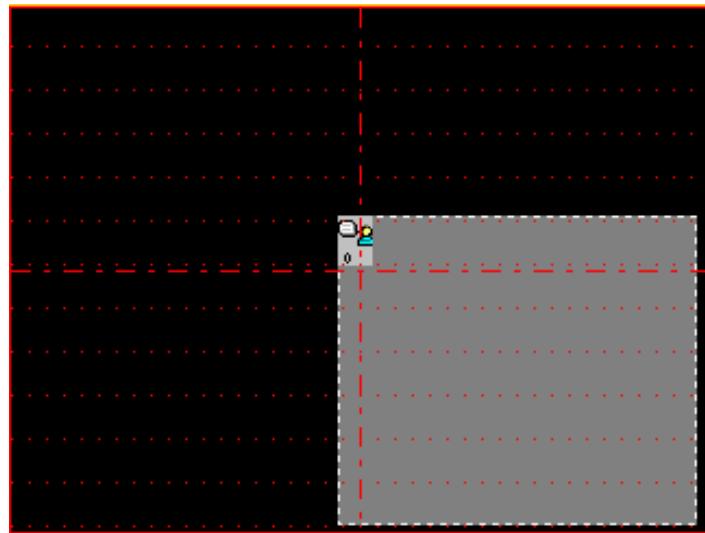
Change [Color]

8) Change “Grid”

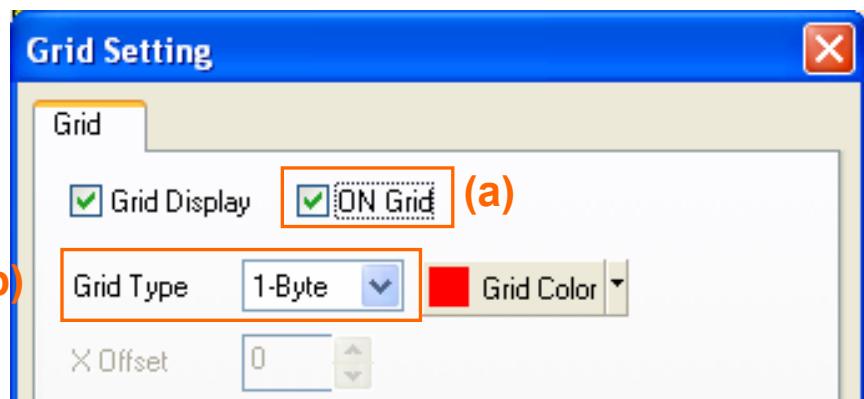


Right-click > [Grid]> [Grid Setting]> [OK]

9) Adjust “Display Area” size



Adjust the area to include 8 lines



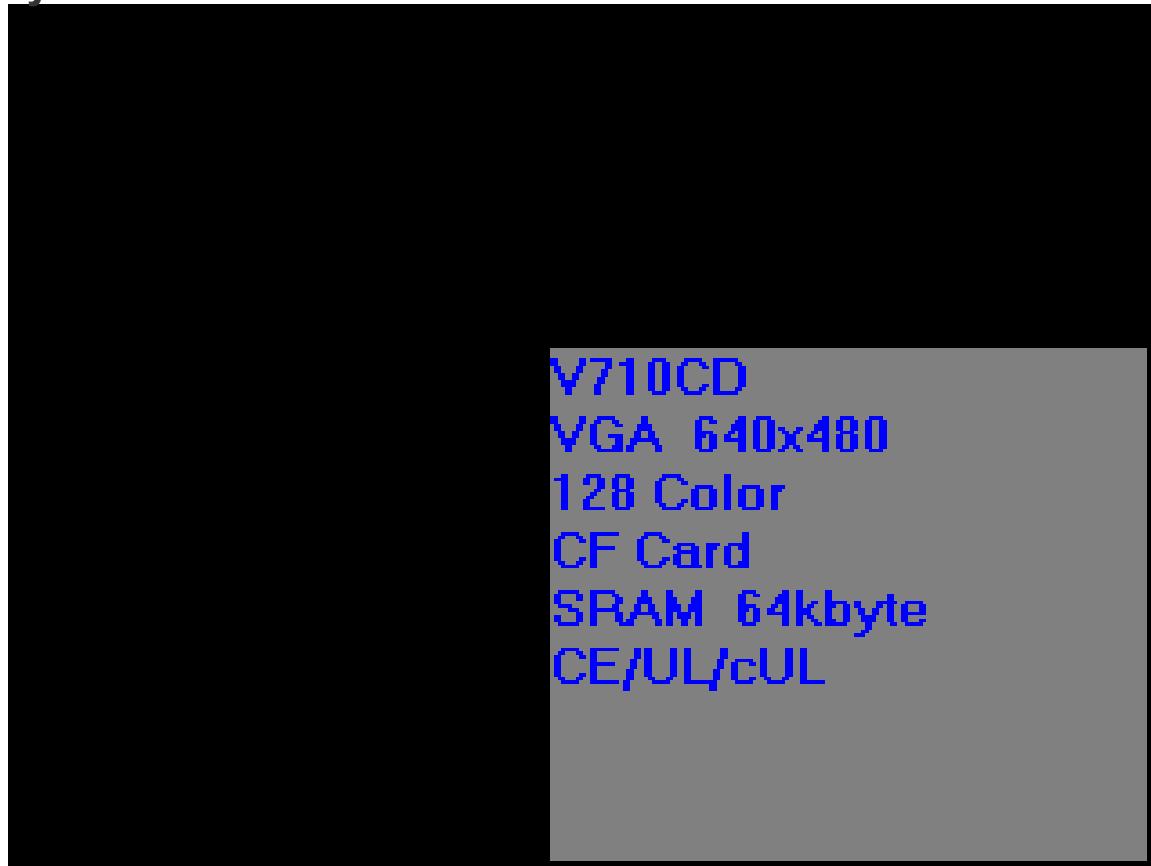
(a) ON Grid

(b) Grid Type: 1-Byte

Operation Check



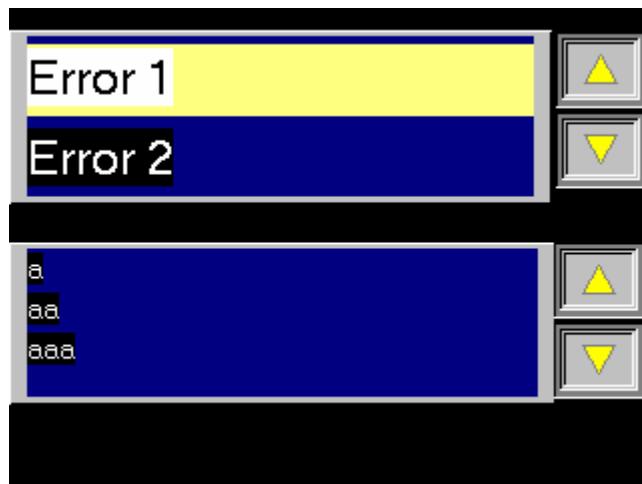
Check if the corresponding message is displayed by changing the value in PLC memory 4 00500.



7. How can I display errors in their priority order?



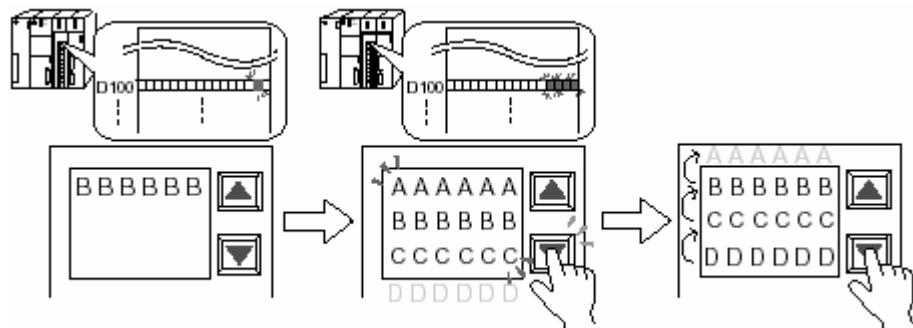
Completed screen



**Function used : Bit Order Alarming
Alarm Sub Display**

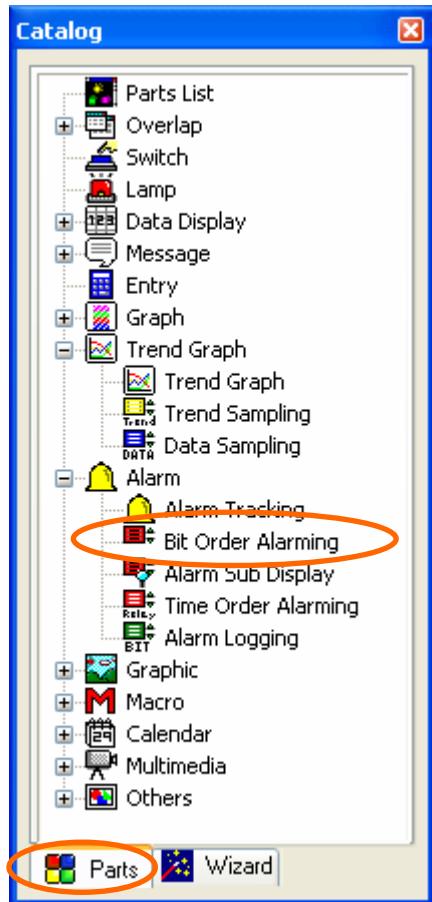
Displaying the error message in their priority order, not in chronological order.

When an alarm bit is set ON, corresponding error message is displayed from the top of the display area. Error message which has more priority comes to the top of the display area. When an error is corrected(alarm bit OFF), the corresponding error message disappears.

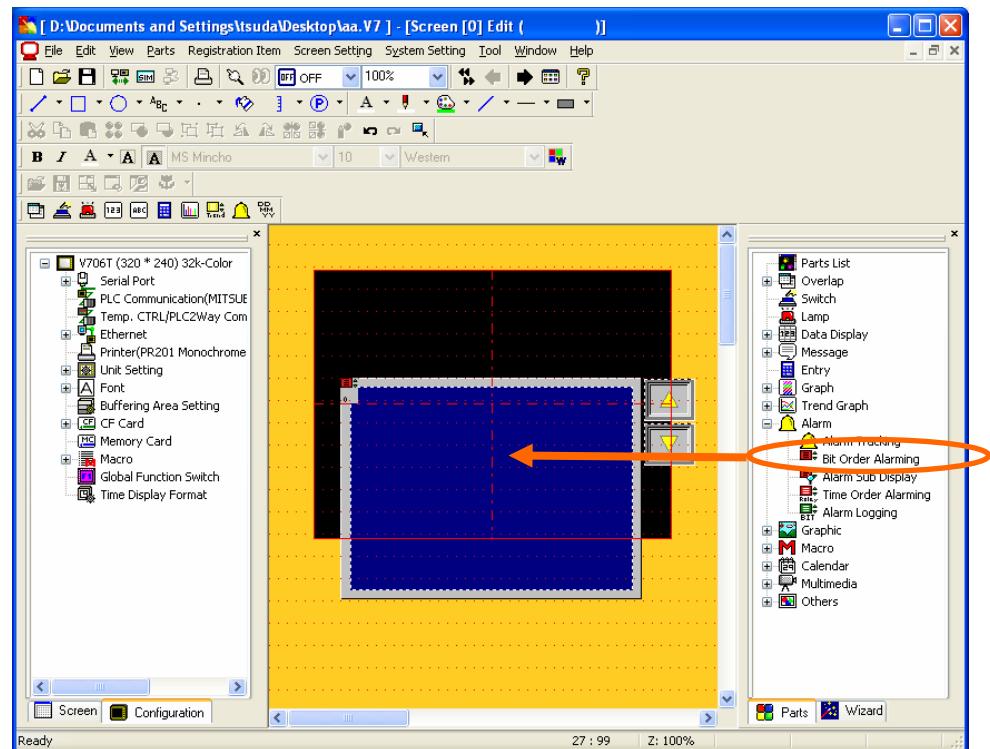


This chapter explains how to create the screen to display error messages in the upper half and sub display for error messages in the lower half of the screen.

1) Select from [Catalog View]



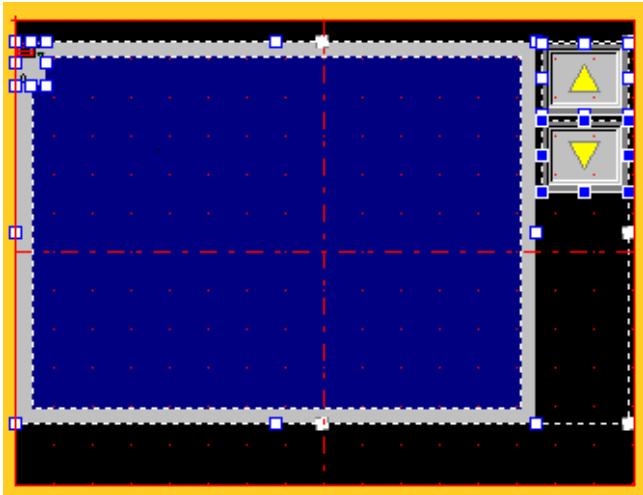
2) Placing “Bit Order Alarming” parts



[Bit Order Alarming] > Click and drag it to the screen

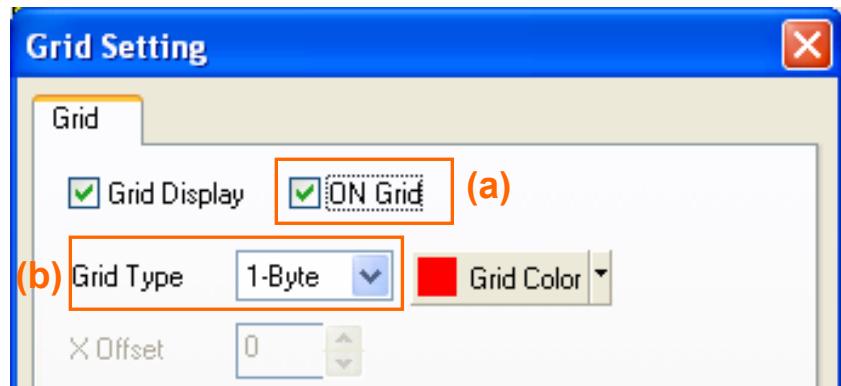
[Catalog View] > [Parts]tab > [Alarm]
> [Bit Order Alarming]

3) Link Cancel



Right-click > [Change Part]> [Link Cancel]
Handle display > Cancel handle display by a click

4) Changing “Grid”

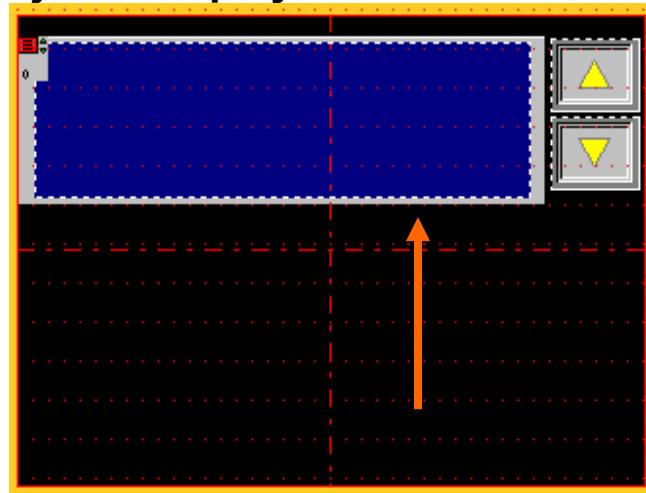


Right-click > [Grid]> [Grid Setting]> [OK]

(a) ON Grid

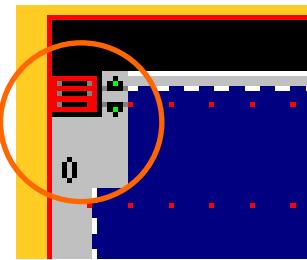
(b) Grid Type: 1-Byte

5) Adjust “Display Area” size



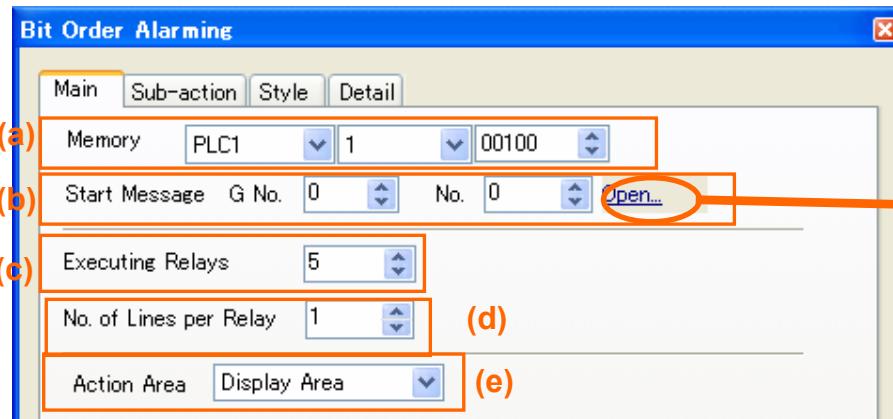
Adjust the area to include four lines

6) Detail setting

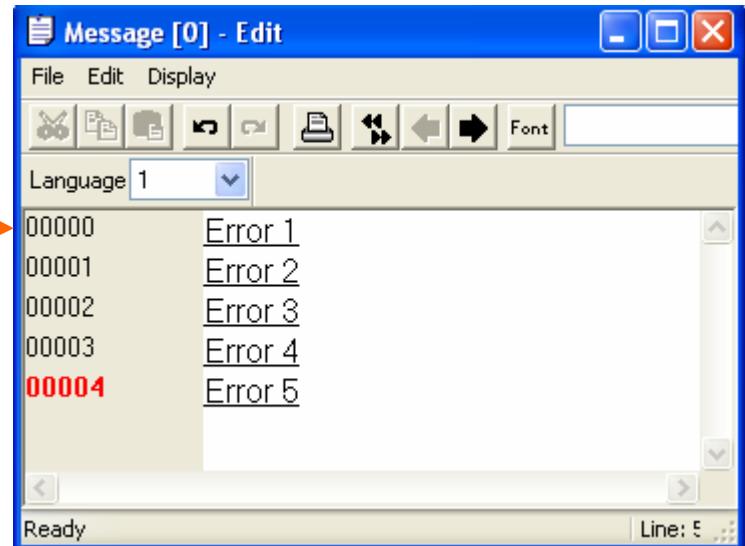


Double-click the icon on the top left of the area
> [Bit Order Alarming] dialog opens

7) [Main] tab setting



8) Message Edit



- (a) Memory: PLC 1 00100
- (b) Start Message: G. No. 0, No.0
- (c) Executing Relays: 5
- (d) No. of Lines per Relay: 1
- (e) Action Area: Display Area

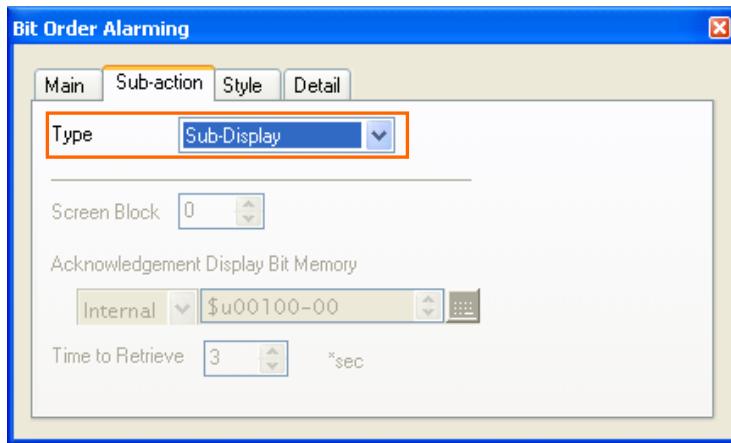
After completing, click [Open...]
> [Message] dialog appears

Edit 5 messages starting from 00000
> Click after completion

--- Message to edit ---

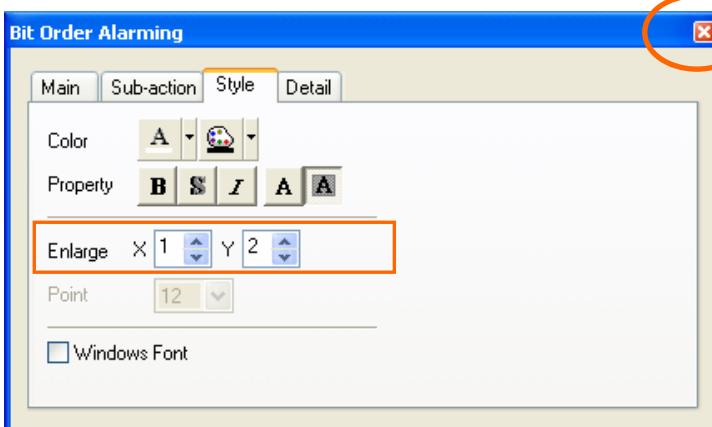
00000 : Error 1
00001 : Error 2
00002 : Error 3
00003 : Error 4
00004 : Error 5

9) [Sub-action] tab setting



(a) Type: Sub-Display

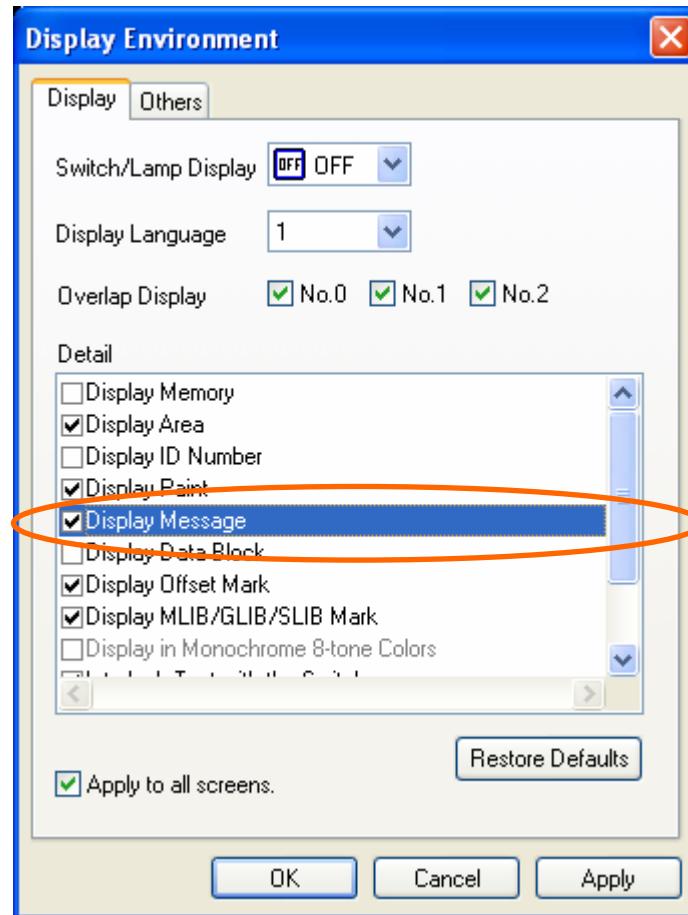
10) [Style] tab setting



(a) Enlarge: X – 1, Y – 2

After completing setting, click **[X]**

11) Display “Preview”

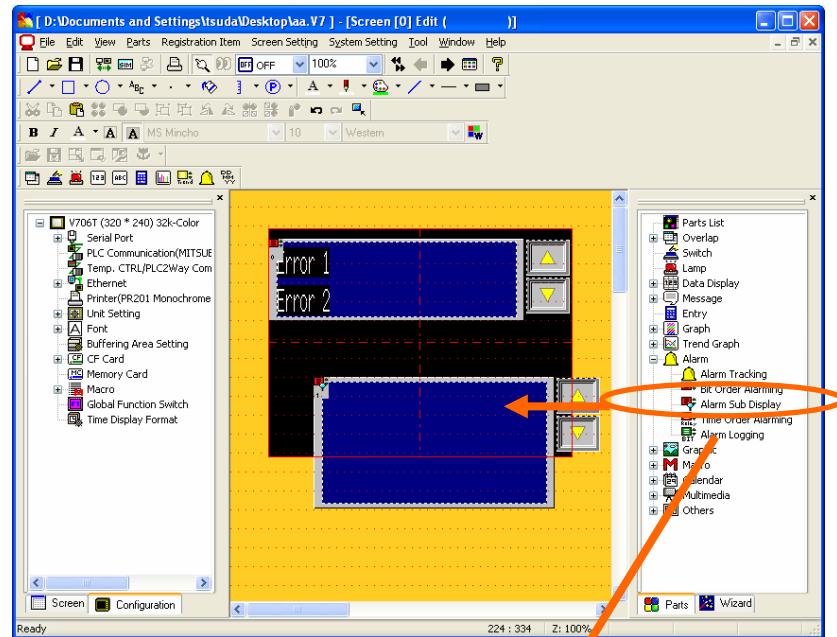


[View]> [Display Environment]

> [Display Message]

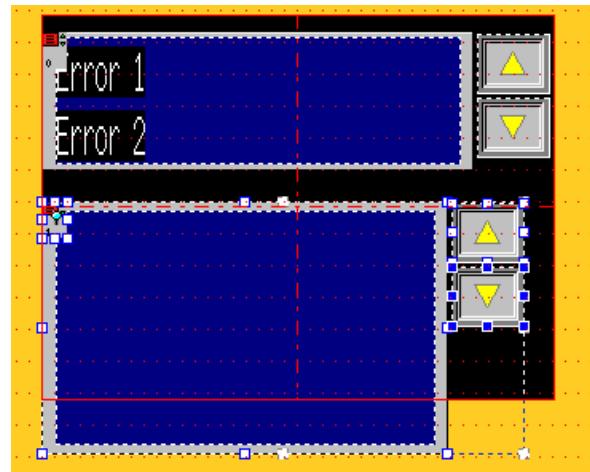
> [OK]

12) Place “Alarm Sub Display” parts



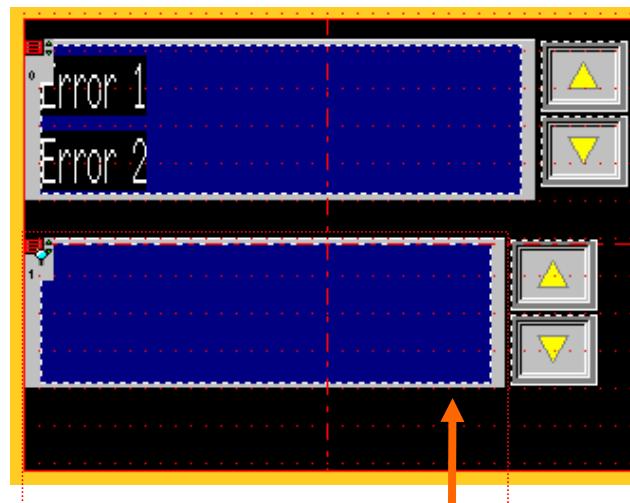
[Alarm] > [Alarm Sub Display]
> Click and drag it to the screen

13) Link Cancel



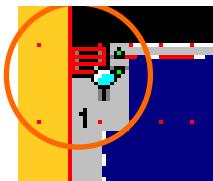
Right-click > [Change Part]> [Link Cancel]
Handle display > Cancel handle display by a click

14) Adjust “Display Area” size



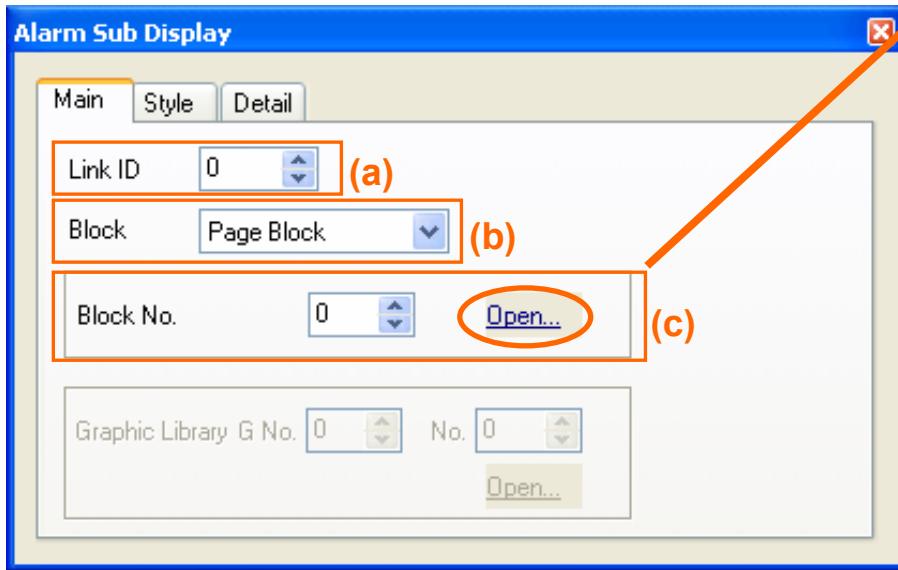
Adjust the area size to include four lines

15) Detail setting



Double-click the icon on the top left of “Display Area”

16) [Main]tab setting



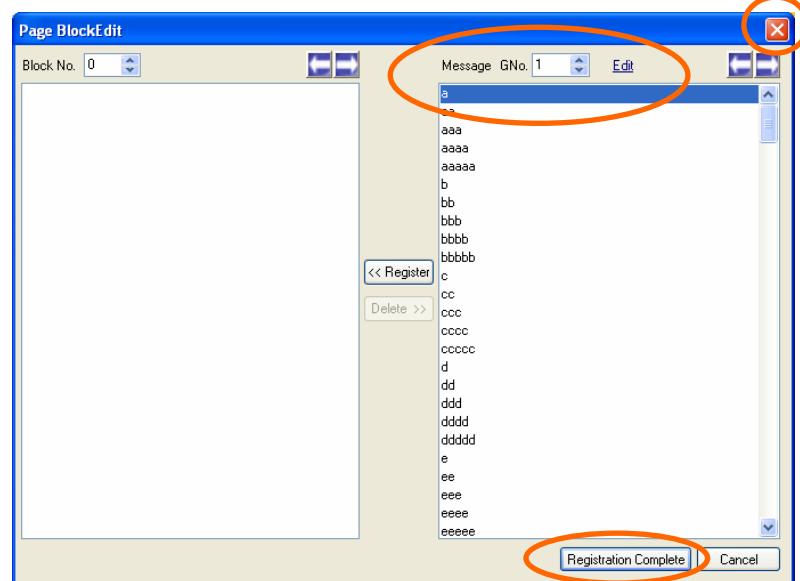
(a) Link ID: 0

(b) Block: Page Block

(c) Block No.: 0

After completing setting, click [Open...]
> “Page Block Edit” dialog appears

17-1) Page Block Edit 1. Register messages



Set “1” to [Message Group] in the right dialog

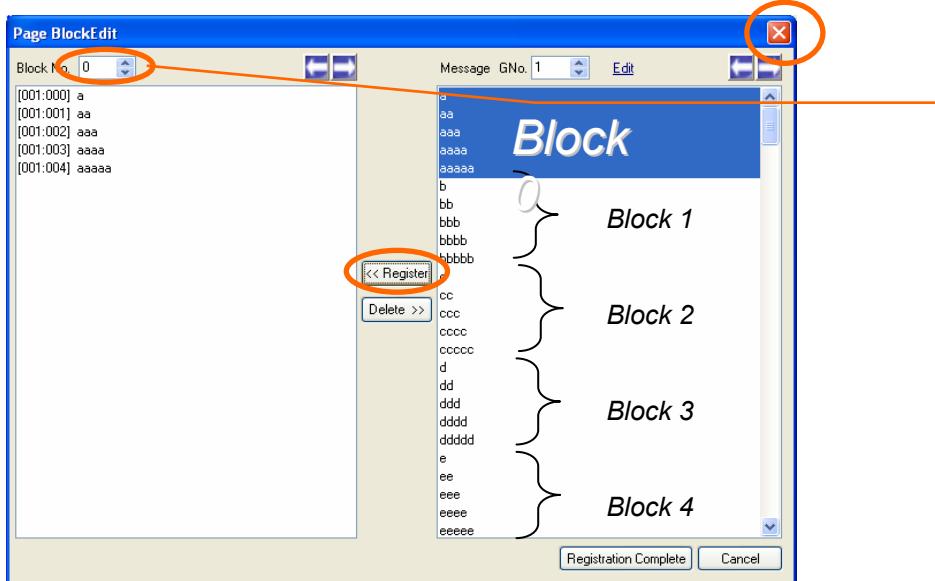
> Click “Edit”

> Register 5 multi-line messages in Group 1

00256: a	00276: e
00257: aa	00277: ee
00258: aaa	00278: eee
00259: aaaa	00279: eeee
00269: aaaaa	00280: eeeee

> Click [Registration Complete] and after editing messages
> Back to “Page Block Edit”

17-2) Page Block Edit □ Creating “Page Block”□



Page Block setting are;

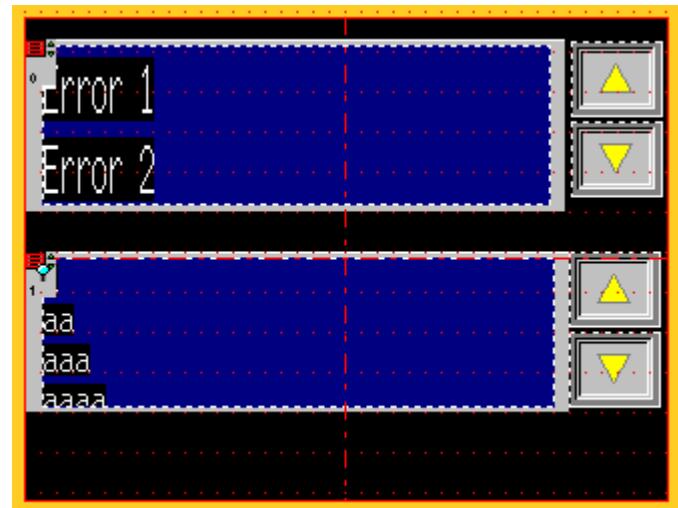
- Block 0: Message G1: Line 0 - 4
- Block 1: Message G1: Line 5 - 9
- Block 2: Message G1: Line 10 - 14
- Block 3: Message G1: Line 15 - 19
- Block 4: Message G1: Line 20 - 24

Make sure “0” is selected for [Block No.] on the left hand side

- > Select the start message and end message to include in Block 0 (Click the start message and the end message with “Shift” key held down□)
- > Click [Register] button in the middle
- > Change [Block No.] from “0” to “1”
- > Select the start message and end message to include in Block 1
- > Create 5 Blocks (to No. 4) in the same way as above

After completing, click at the top right corner

18) Completed screen



Operation Check

FO MONITOUCH
Front touch

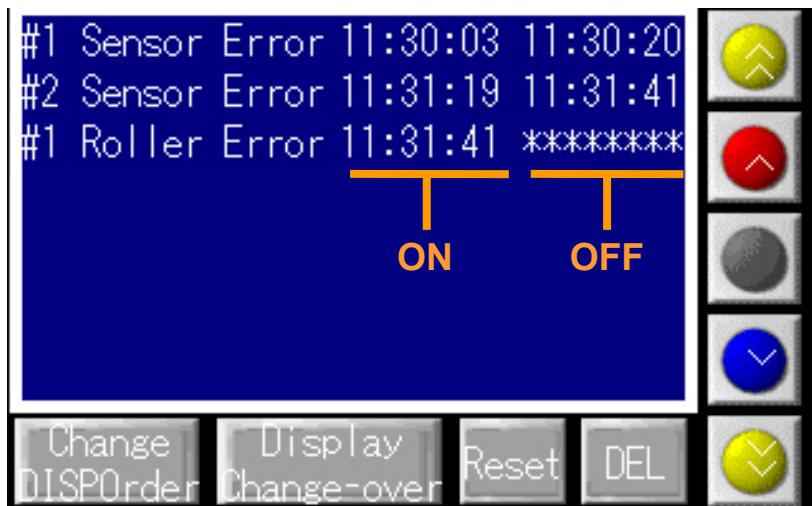
Check if the corresponding message is displayed by setting error bits
(starting from 1 00100□



8. How can I display the error history?

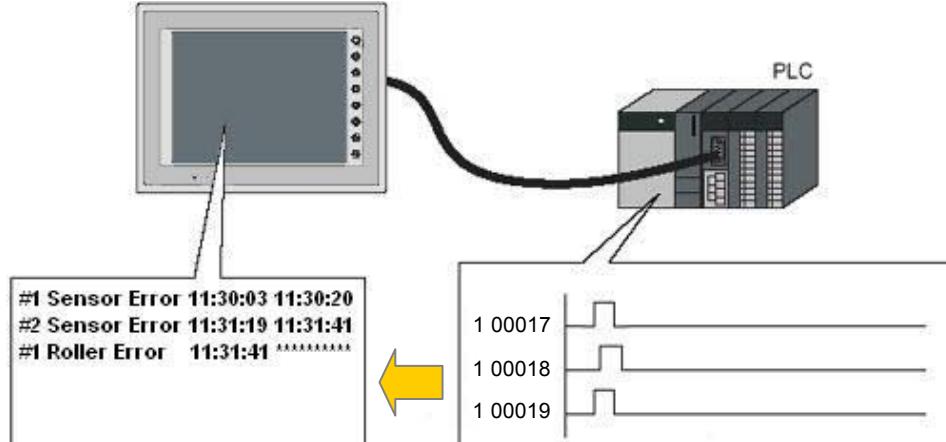


Completed screen



Sampling error messages and time stamps according to bit action and display on the screen as error history.

In this chapter, four error bits are monitored.

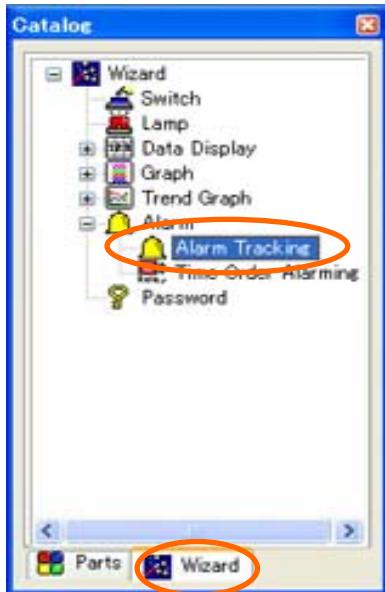


Function used Alarm Tracking
 by Wizard

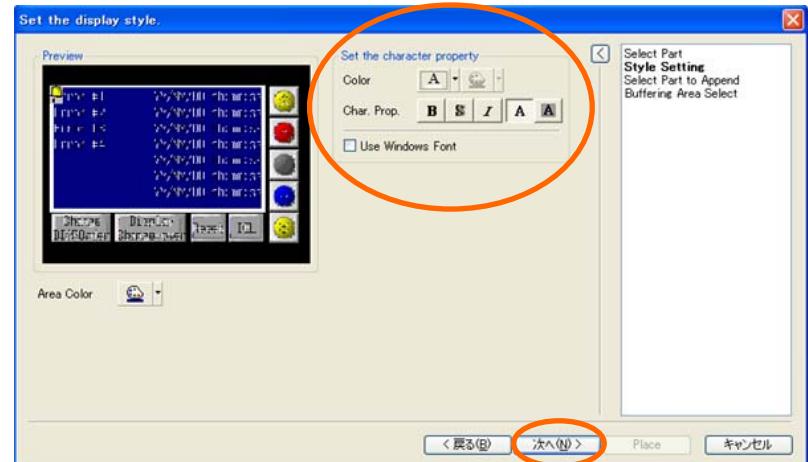
Log and display error history

Monitor alarm bit status

1) Start “Wizard”

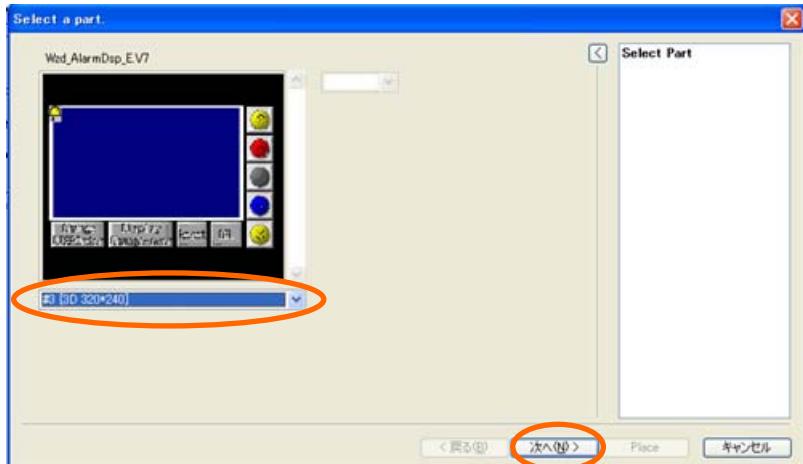


3) [Style Setting]



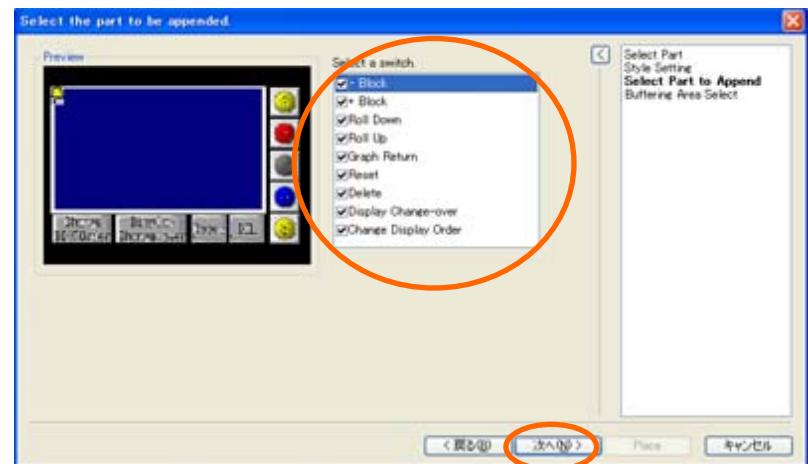
[Catalog View] > [Wizard] tab > [Alarm] >
[Alarm Tracking]

2) [Select Part]



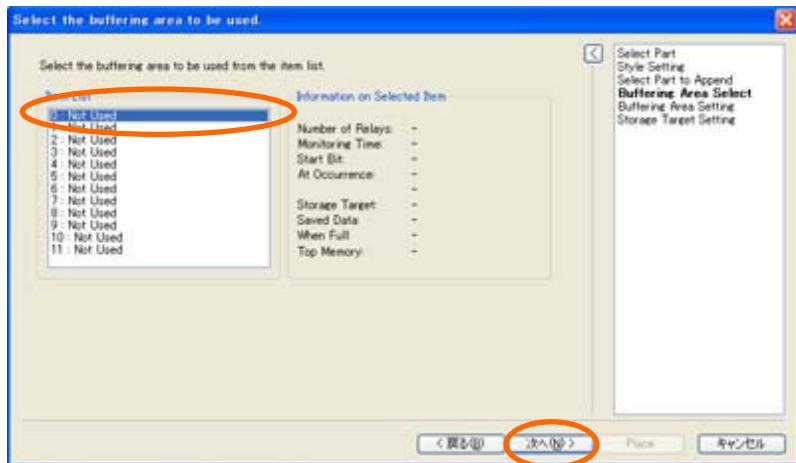
[#6[3D 320*240]] > [Next]

4) [Select Part to Append]



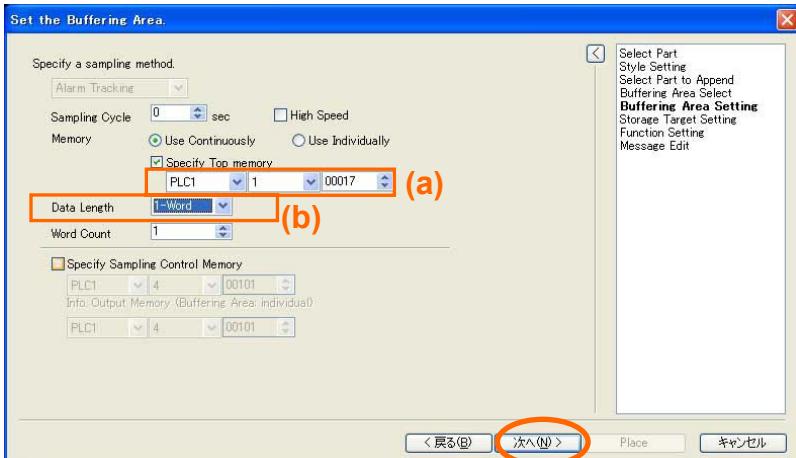
[Select a switch] > [Next]

5) [Buffering Area Select]



[Item List] > Select [0] > [Next]

6) [Buffering Area Setting]

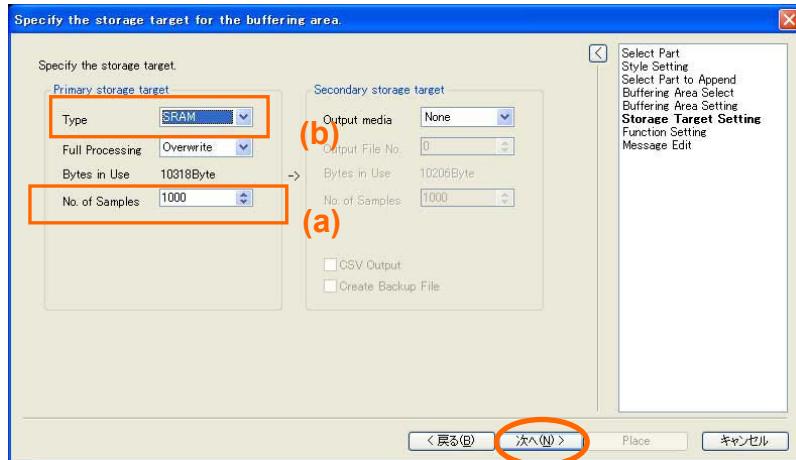


(a) [Specify Top Memory] 1 00017

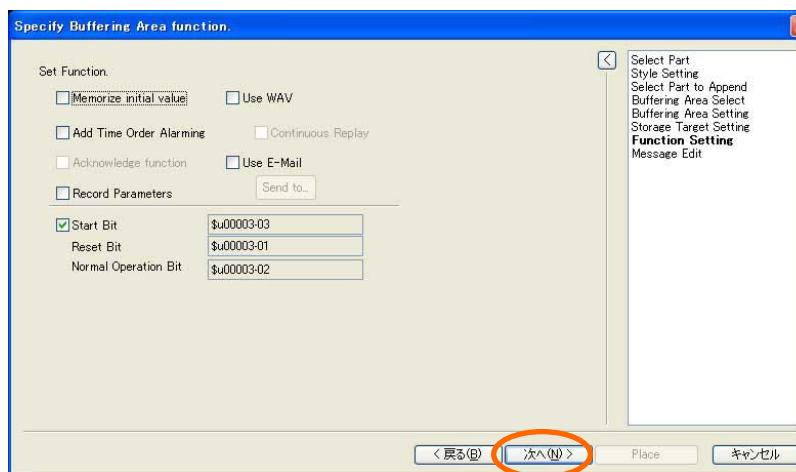
(b) [Word Count] : 1 word

[Specify Top Memory] > [Word Count] > [Next]

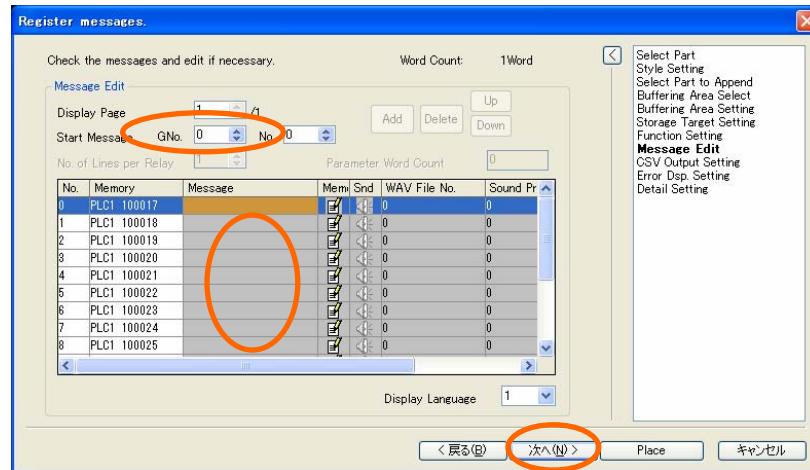
7) [Storing Target Setting]



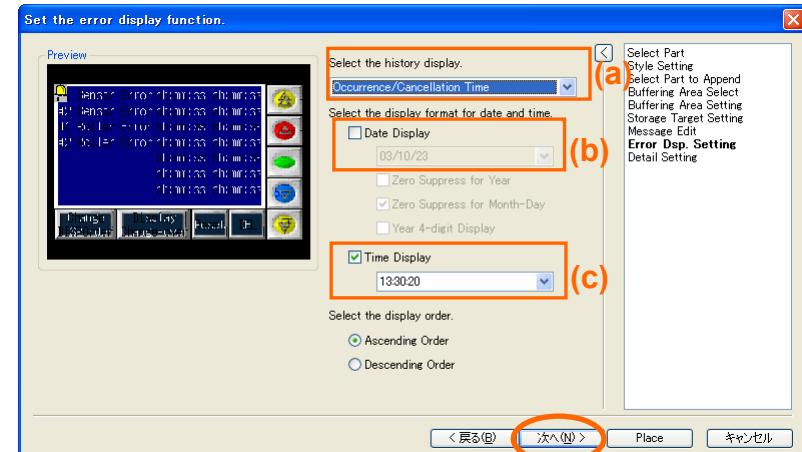
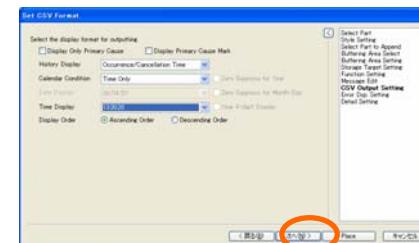
- (a) [No. of Saved Data] : 1000
(b) [Specify the storing target] : SRAM



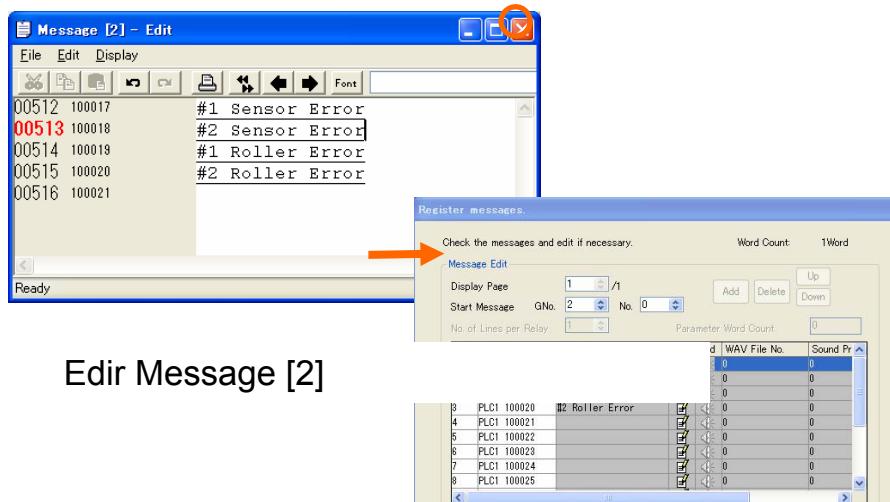
8) [Register Messages]



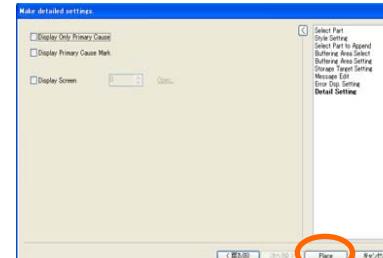
9) [Error Display Setting]



[Select the history display] > [Select the display format for date and time] > [Next]

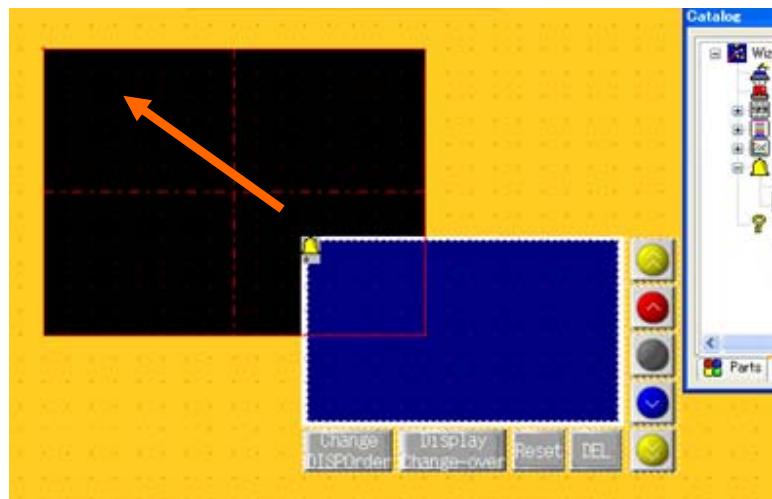


Edir Message [2]



[Place]

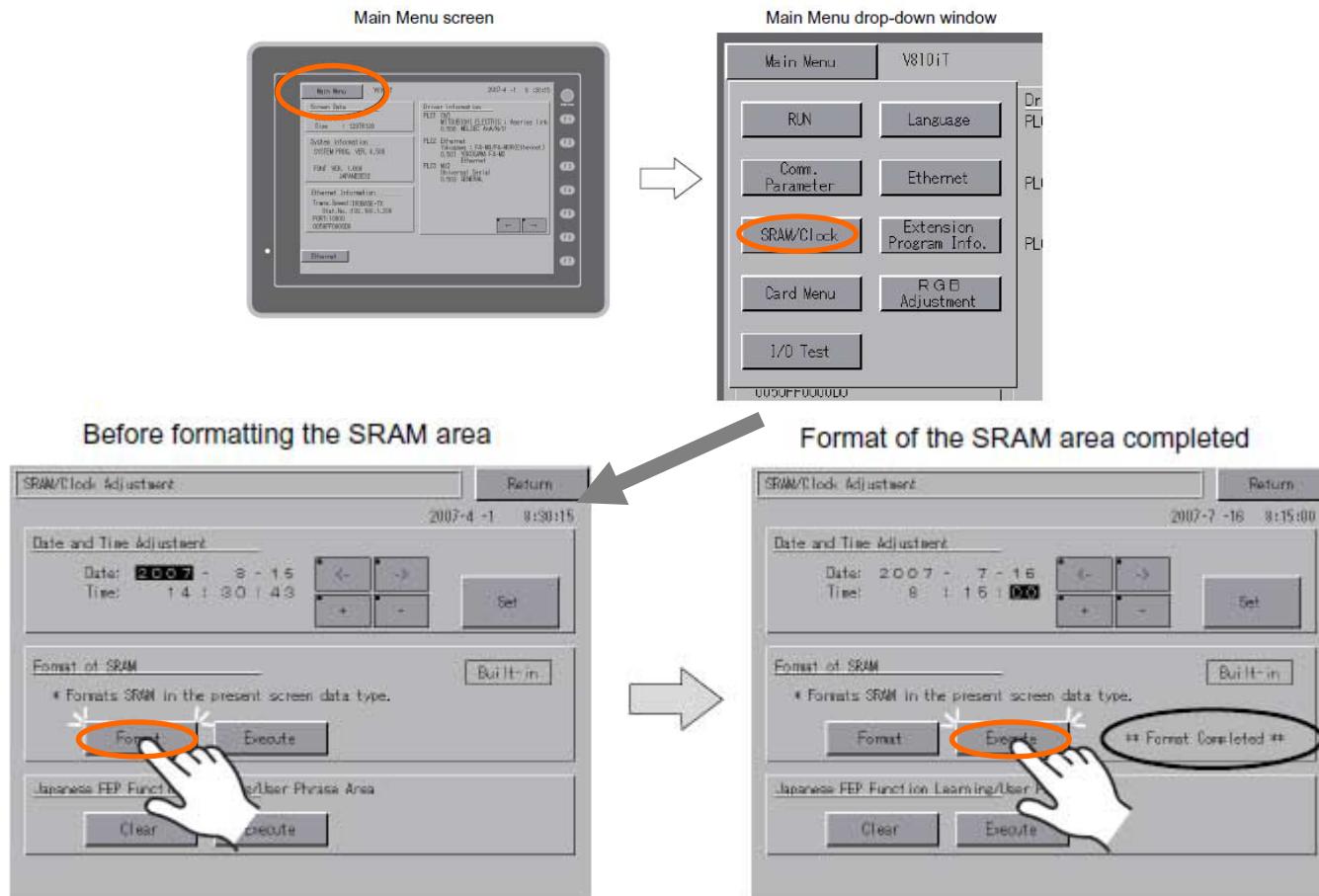
11) Place “Alarm Tracking” parts



12) Place a format switch

Preparation for Operation Check

Initial format of SRAM area

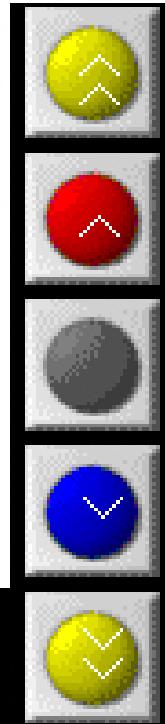


Operation Check



Set error bits and see how the error history is displayed.

```
#1 Sensor Error 11:30:03 11:30:20  
#2 Sensor Error 11:31:19 11:31:41  
#1 Roller Error 11:31:41 *****
```



Change
DISPOrder

Display
Change-over

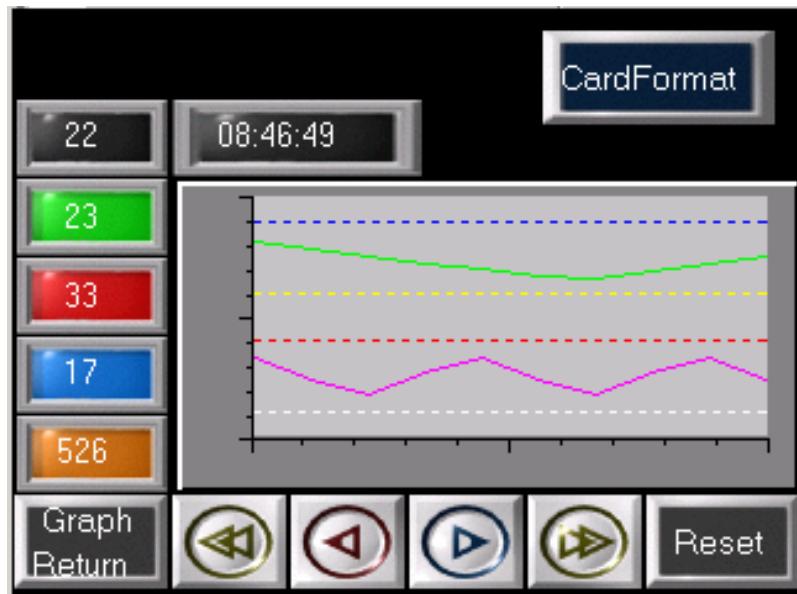
Reset

DEL

9. How can I display the sampled data in line graph?

 MONITOUCH

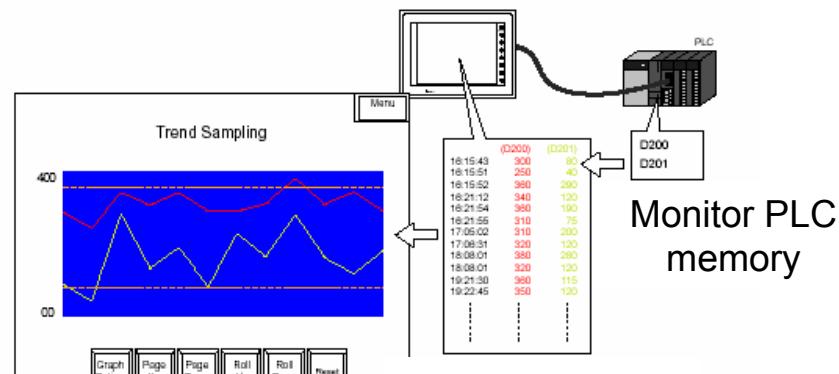
Completed screen



Function used : Trend Sampling (by Wizard)

Display the periodically sampled numeric data in line graph format. The sampled data is stored in the area called “Buffering Area” in MONITOUCH, so you can see the data history as well.

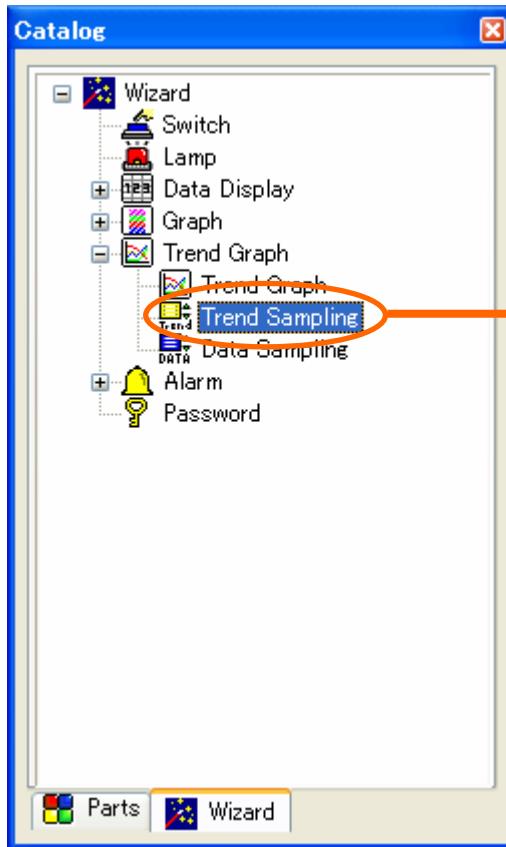
In this chapter, we will monitor 2 words of PLC memory addresses(4 00600 and 4 00601) then display the history in line graph.



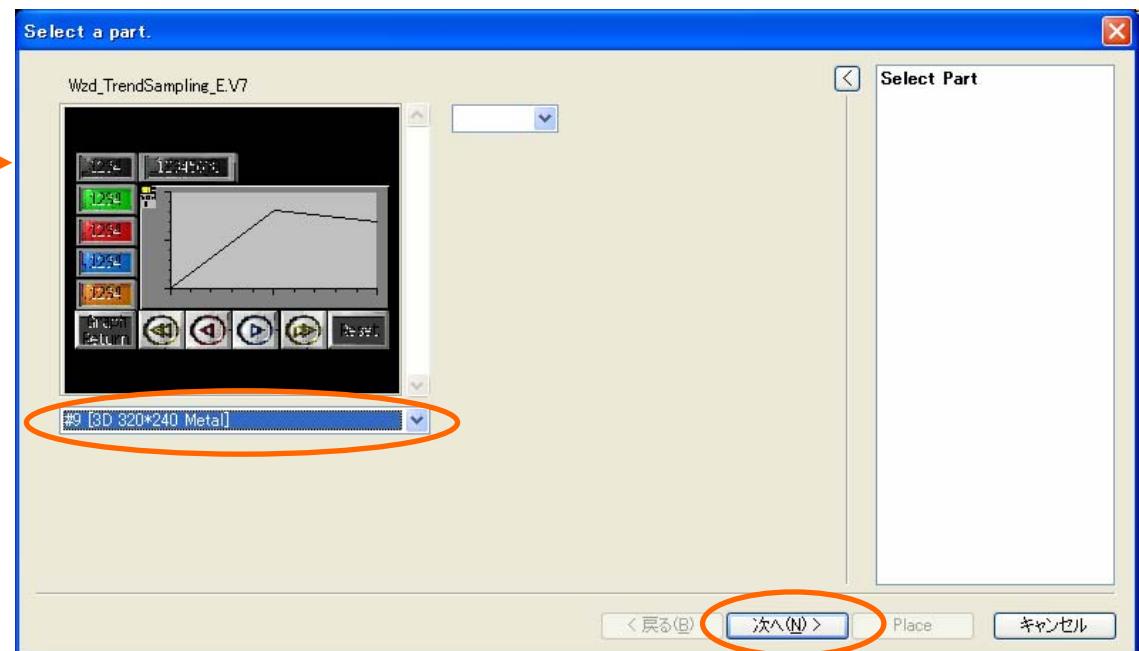
Display in line graph

Store the data

1) Start “Wizard”



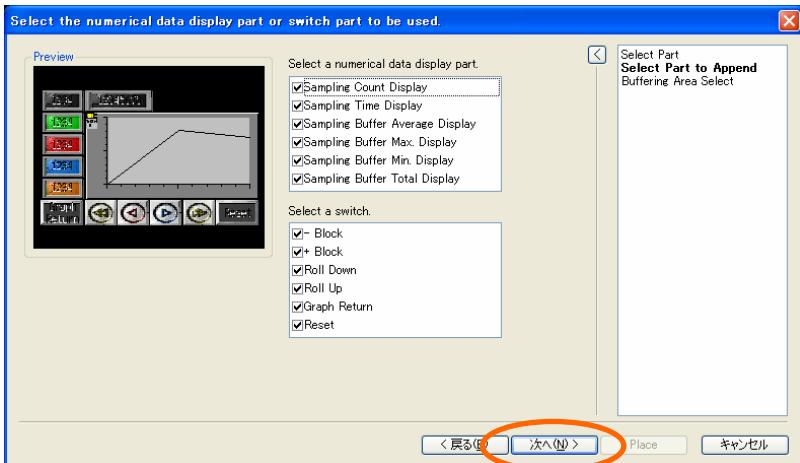
2) [Select Part]



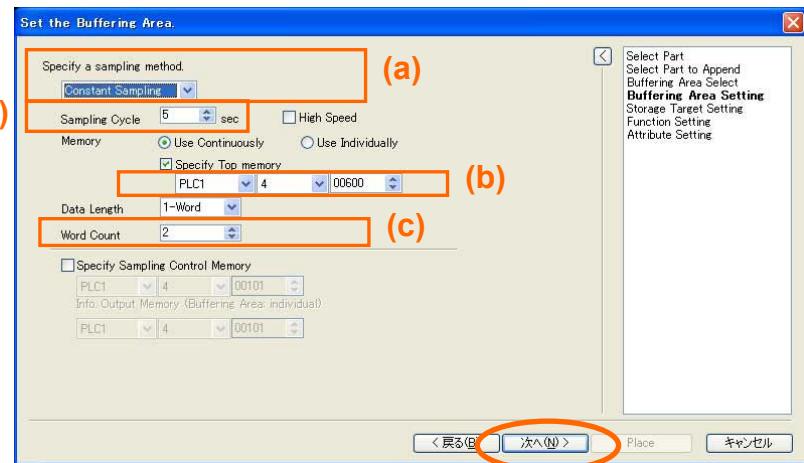
[Catalog View] > [Wizard]tab
> [Trend Graph] > [Trend Sampling]

Select “#3 [3D 320*240 Metal]” > [Next]

3) [Select Part to Append]

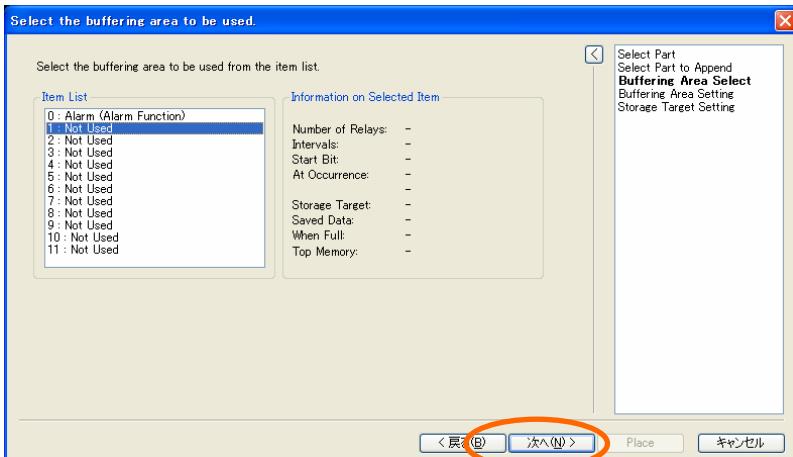


5) [Buffering Area Setting]



Click [Next]

4) [Buffering Area Select]

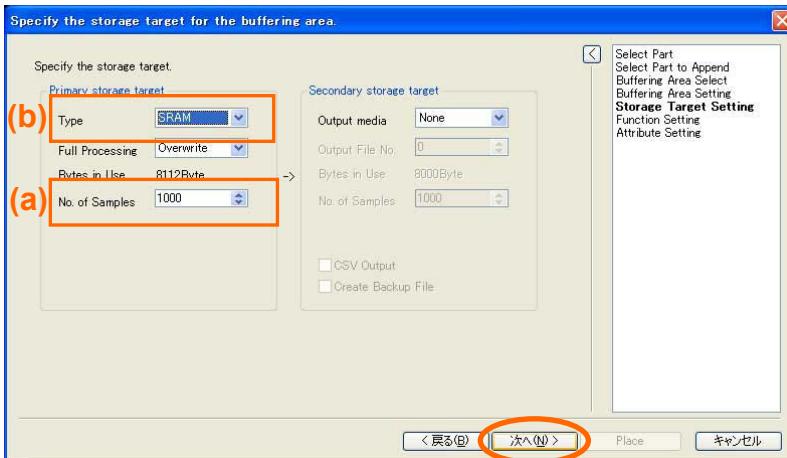


Select “1” for “Item List” > Click [Next]

[Buffering Area Setting] details

- [Specify a sampling method]: Constant Sampling
 - [Specify Top Memory]: PLC memory 4 00600
 - [Word Count]: 2 (Word)
 - [Monitoring Time]: 5 (sec)
 - [Start Bit]
- > [Next]

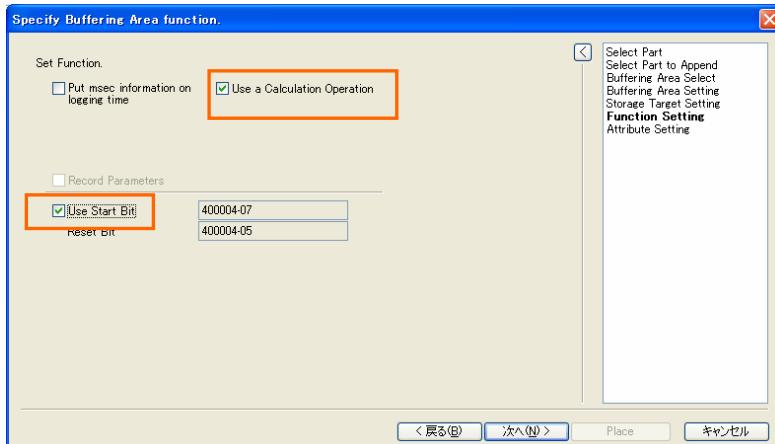
6) [Storage Target Setting]



(a) [No. of Saved Data] : 1000

(b) [Specifying the storing target] : SRAM > [Next]

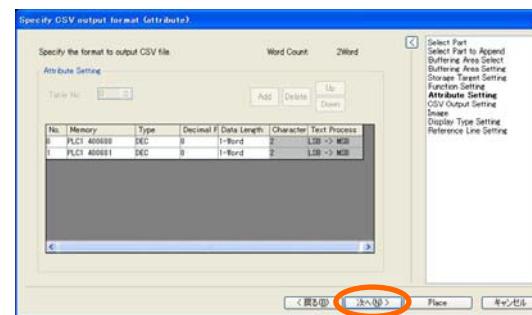
7) [Buffering Area Function]



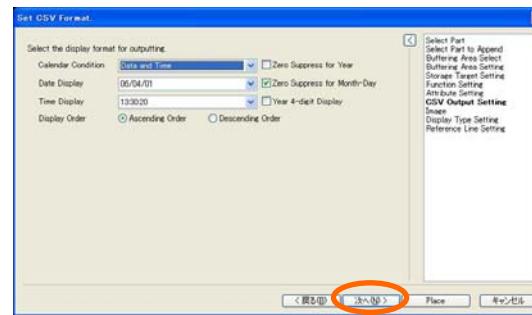
Use a Calculation Operation

Use Start Bit

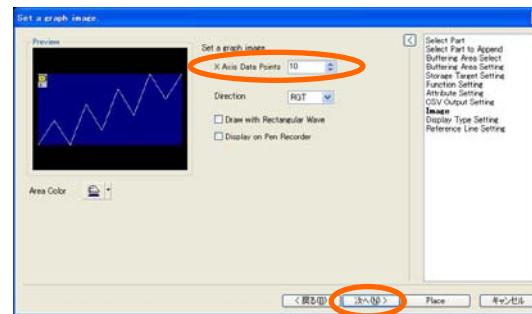
8) [CSV Output Format (Attribute setting)]



9) [CSV Format]

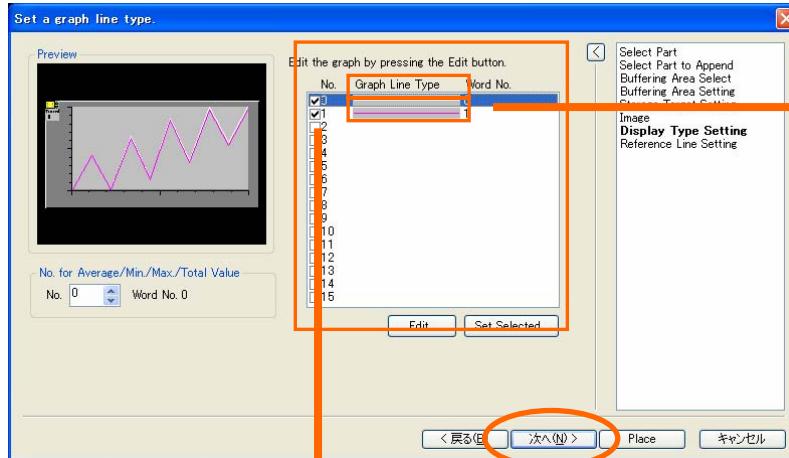


10) [a graph image]



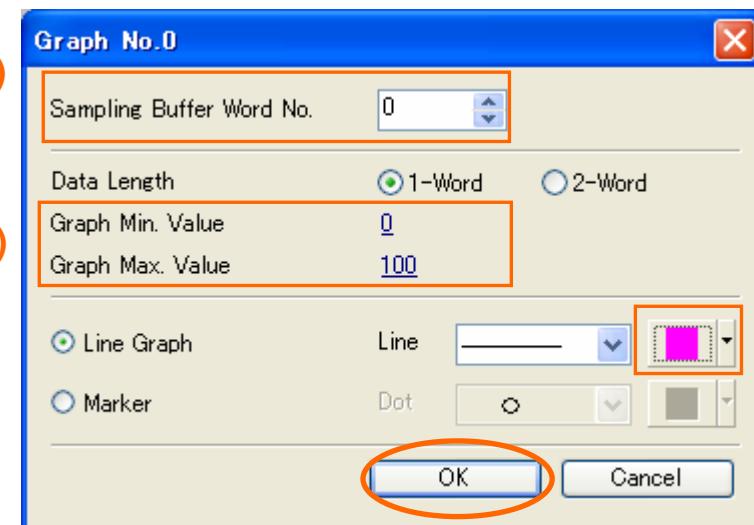
[X Axis Data Points]: 10 > [Next]

11) [Display Type Setting]



[Graph No.0] and [Graph No.1] setting
> [Next]

[Graph No.0]



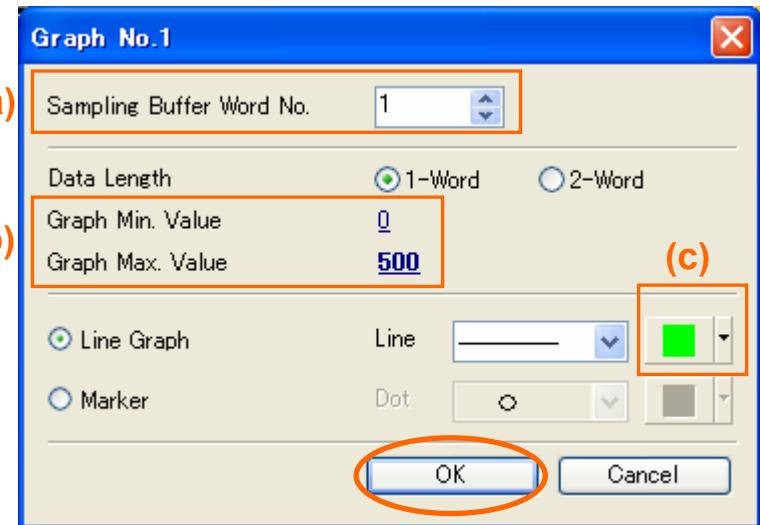
[Graph No.0] and [Graph No.1] details

(a) [Sampling Buffer Word No.] :
graph No.0 0
graph No.1 1

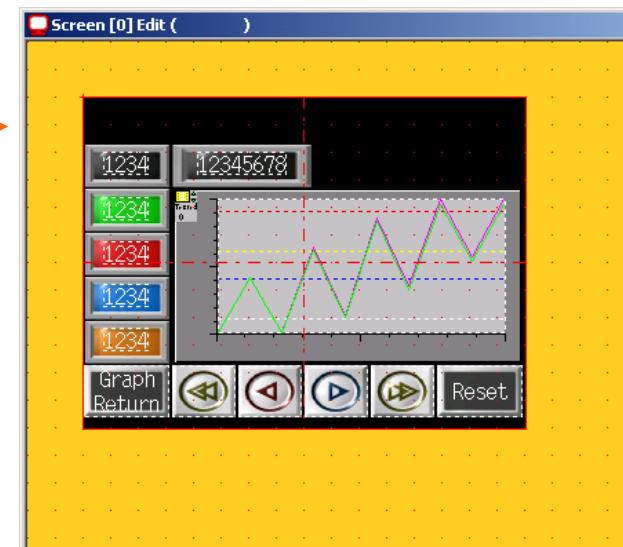
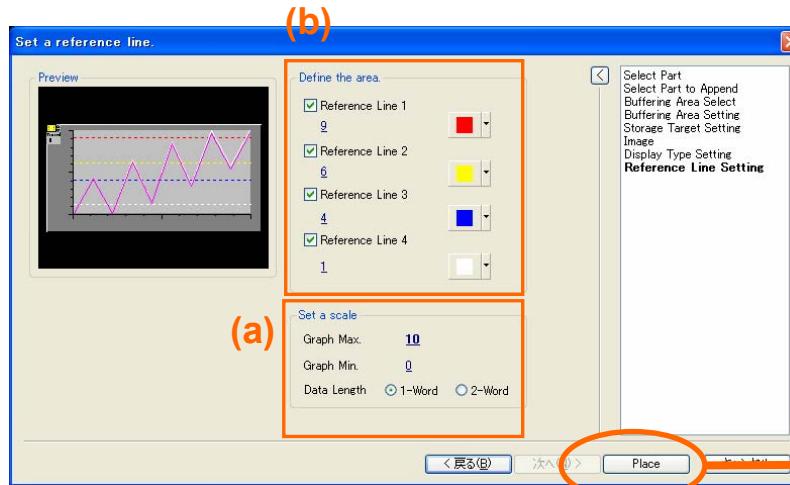
(b) [Graph Min. (Max.) Value] :
graph No.0 Min. 0
Max. 100
graph No.1 Min. 0
Max. 500

(c) [Line Graph] color : any
> [OK]

[Graph No.1]



12) [Reference Line Setting]



[Reference Line Setting] details

(a) [Set a scale] :

Graph Max.: 10

Graph Min.: 0

(b) [Define the area] : Tick all

Reference Line1 : 9

Reference Line2 : 6

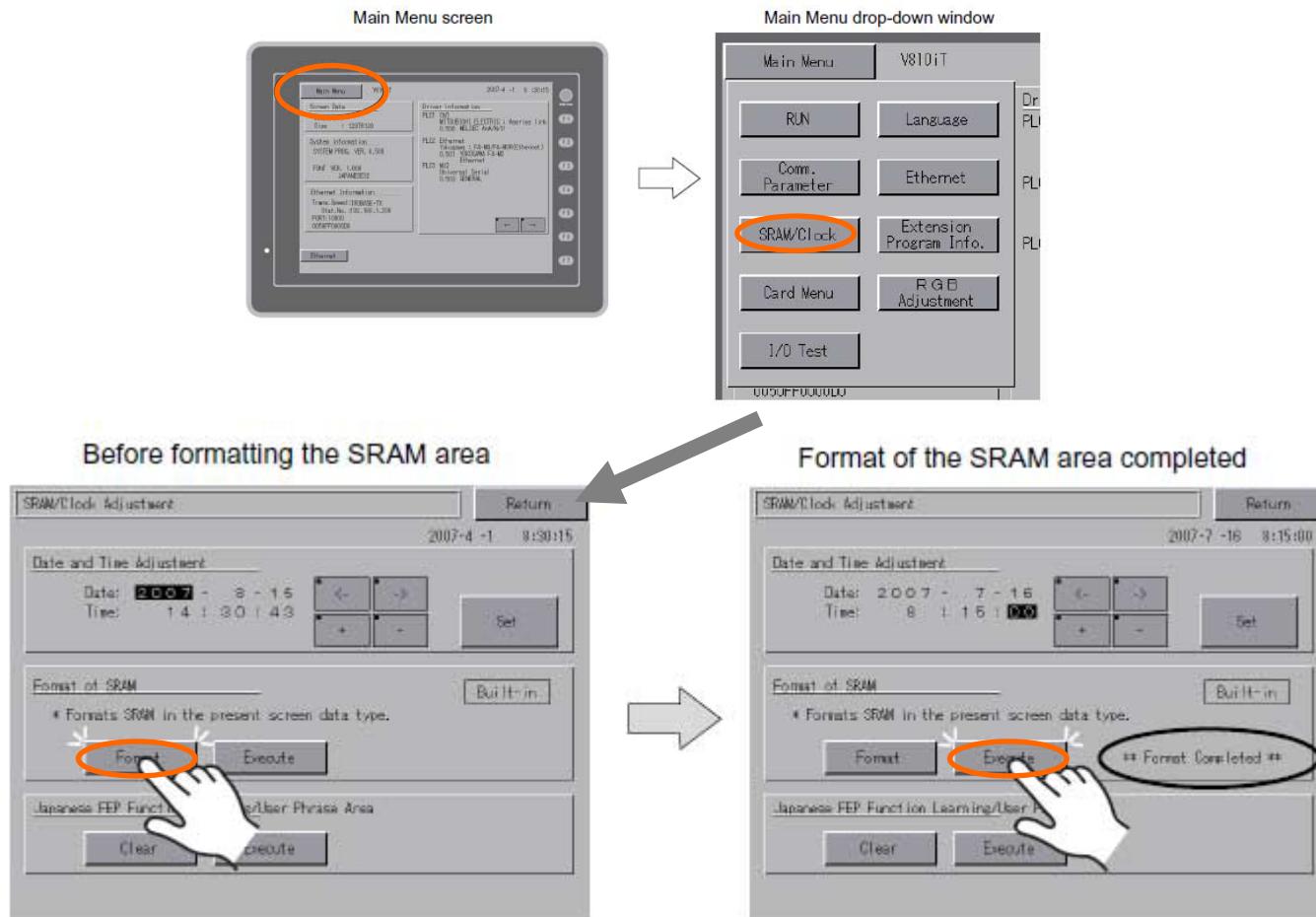
Reference Line3 : 4

Reference Line4 : 1

> [Place]

Preparation for Operation Check

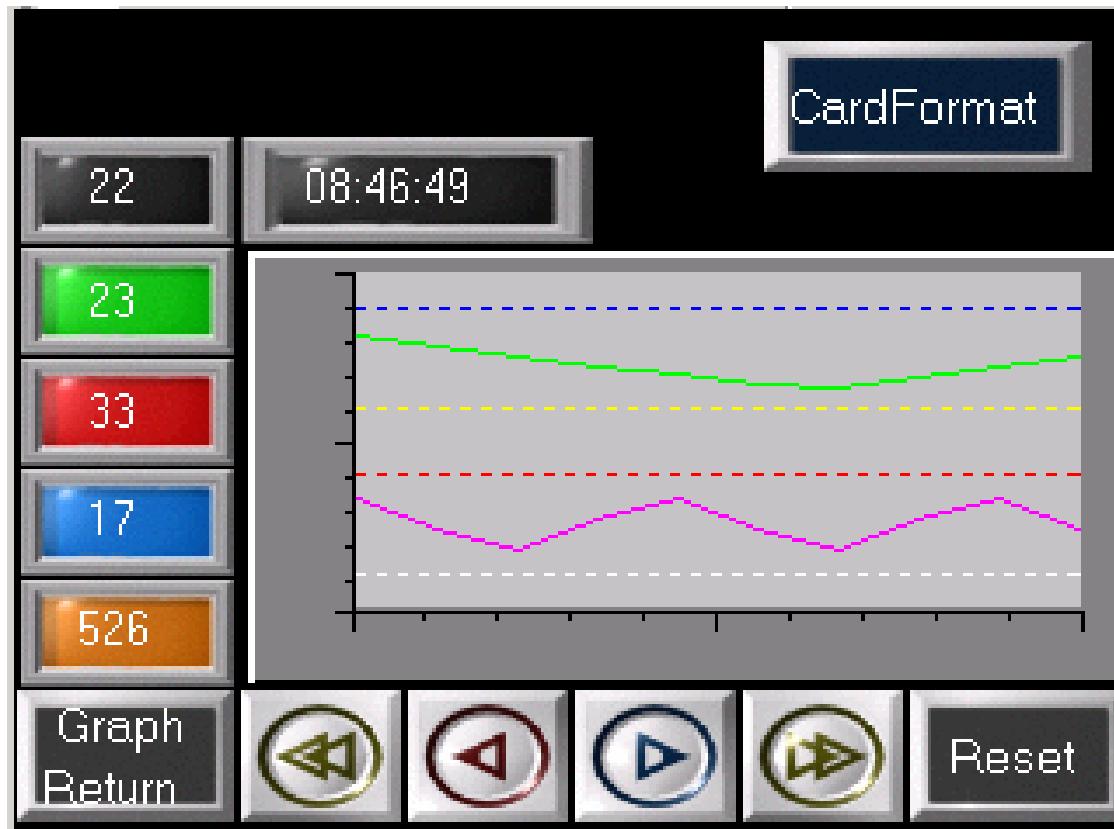
Initial format of SRAM area



Operation Check

MONITOUCH

Check how the changing values of PLC memory addresses are displayed with each line graph.



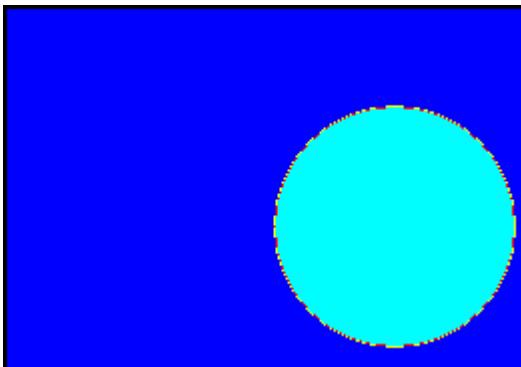
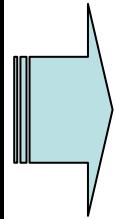
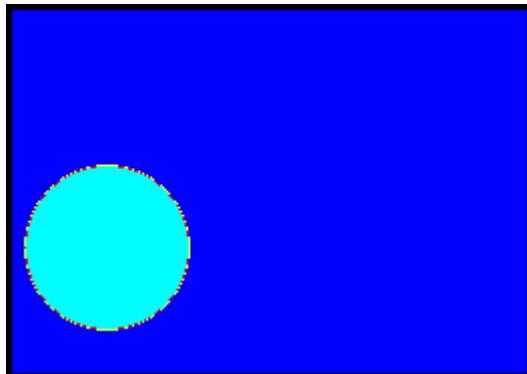
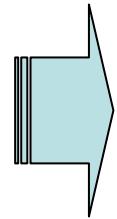
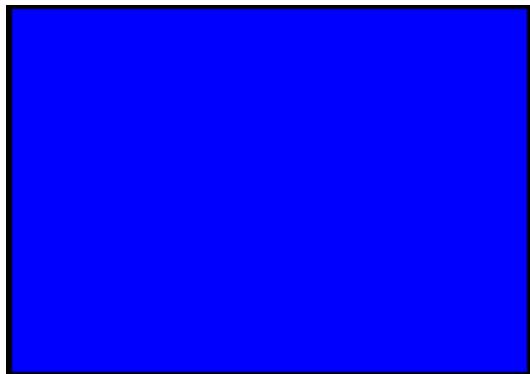
(b)

(a)

10. How can I display, move and transform the graphic?

MONITOUCH

Completed screen



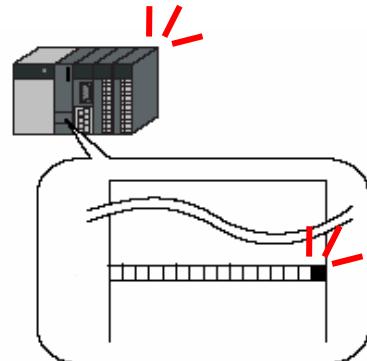
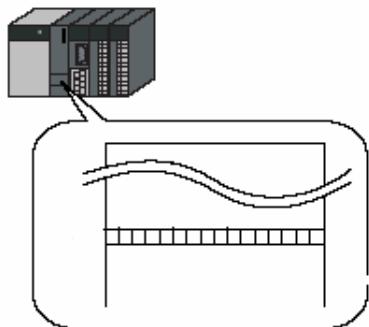
Bit OFF

Display

Set a bit ON

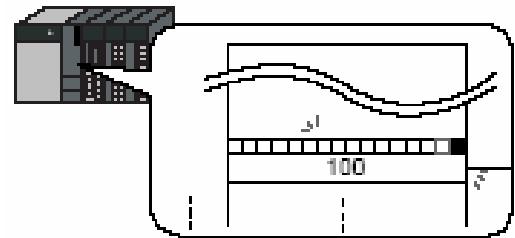
Move and Transform

Give value to Parameter

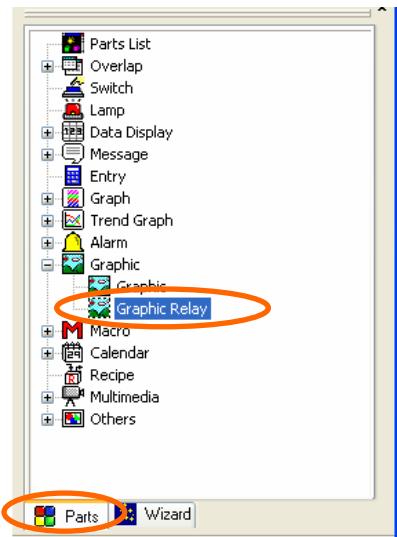


Function used : Graphic Relay Mode

Move and transform
the graphic by giving
value to Parameter

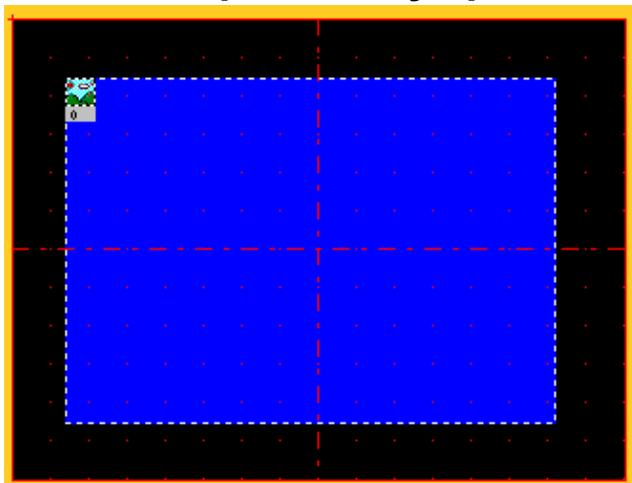


1) Select from [Catalog View]



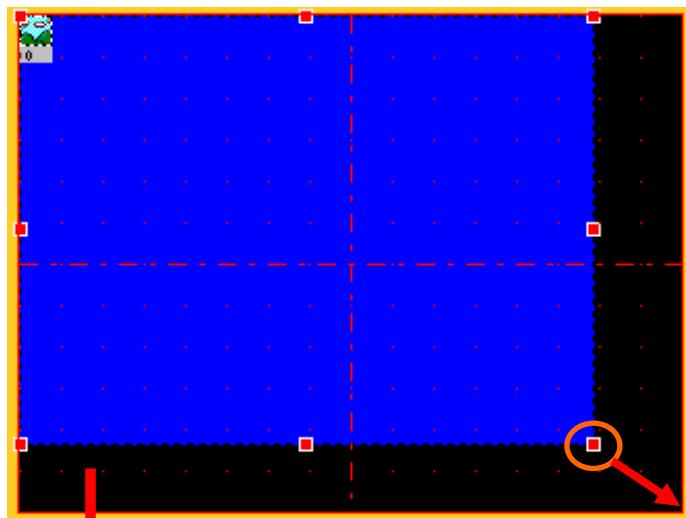
[Catalog view] > [Parts] tab > [Graphic]
> [Graphic Relay]

2) Place “Graphic Relay” part

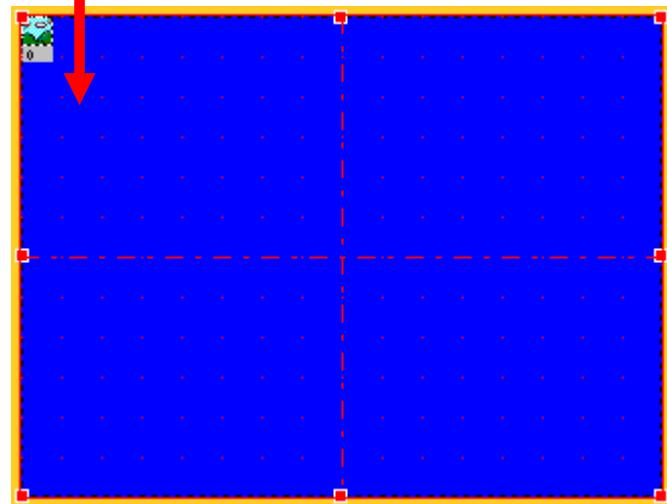


[Graphic Relay] > Click and drag it to the screen

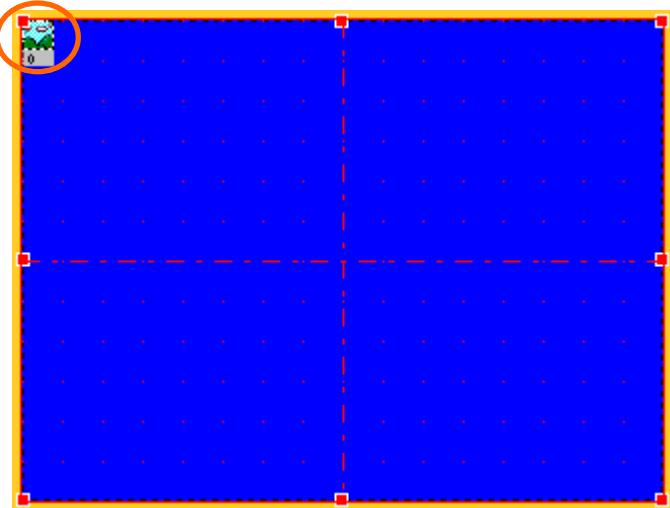
3) Enlarge the part



Select the part and enlarge by dragging outward

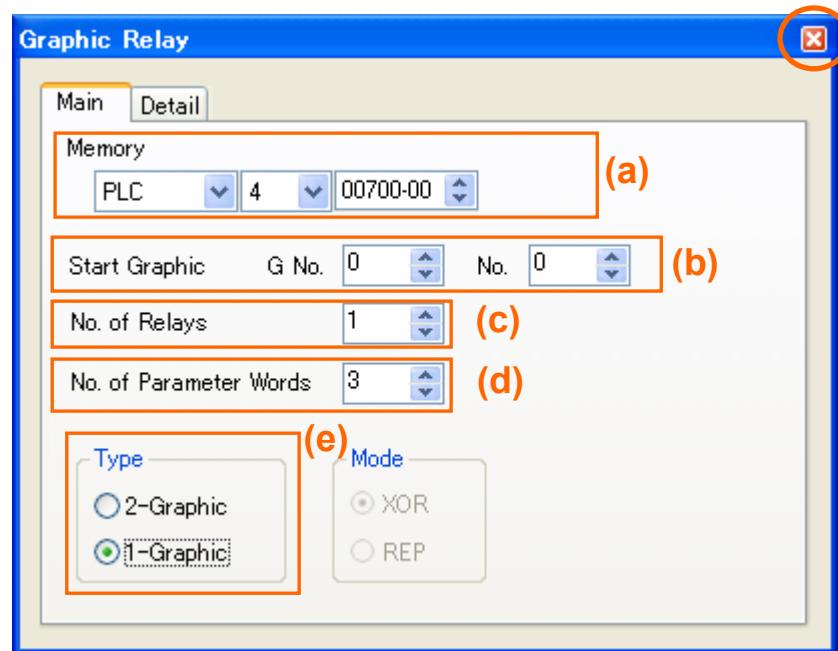


4) “Graphic Relay” setting



Double-click the icon on the top left corner

5) [Main] tab setting

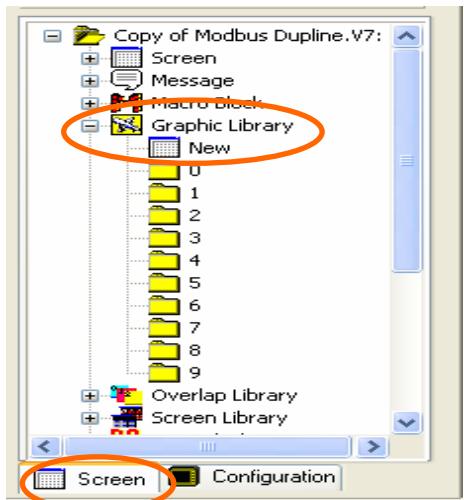


[Main] tab setting

- (a) [Memory]:4 00700-00
- (b) [Start Graphic]: G No 0 No 0
- (c) [No. of Relays]:1
- (d) [No. of Parameter Words]:3
- (e) [Type]:1-Graphic

Click after completion

6) Open [Graphic Library]



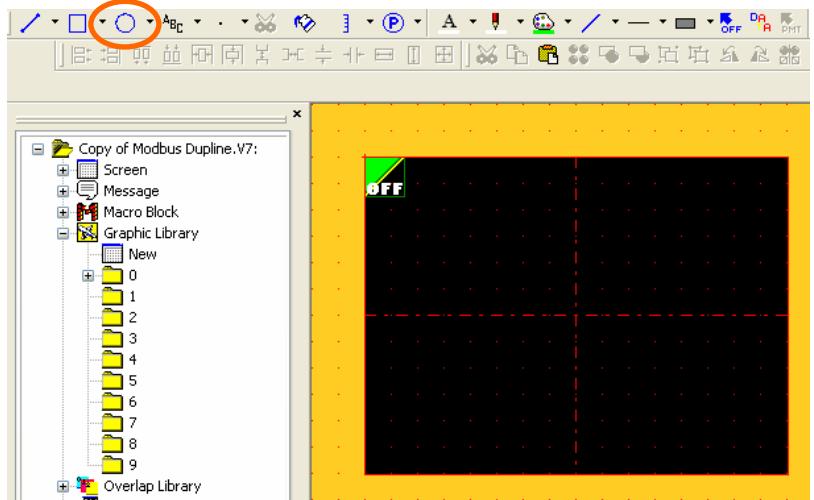
[Project view] > [Screen]tab > [Graphic Library]
> [New]

7) Select [Graphic Library]



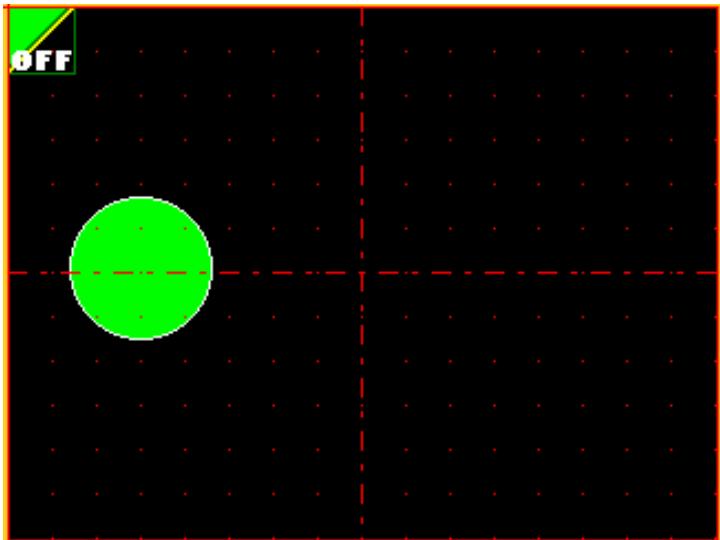
Select "0" to each [Group No.] and [No]
> Click [OK]

8) Draw a circle in [Graphic Library]

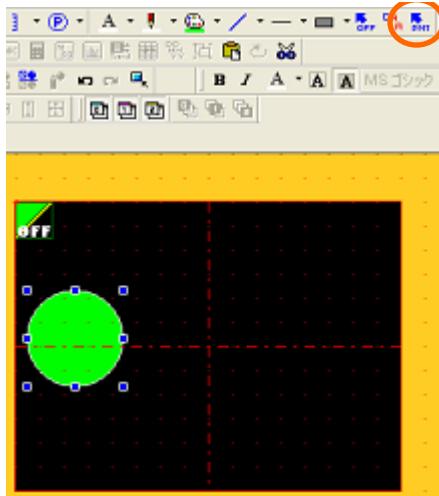


Click "Circle" icon on "Draw" toolbar and draw

9) Place a circle

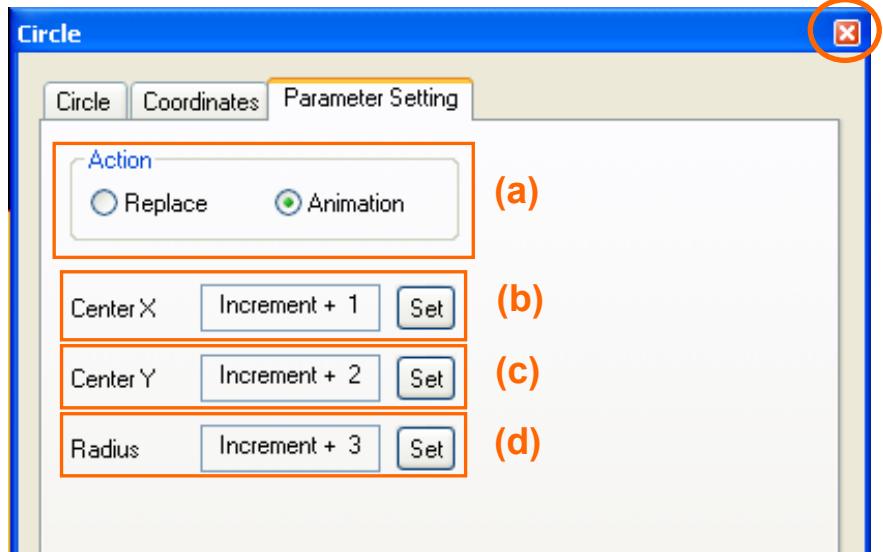


10) Open [Parameter] dialog



Select the circle > click “Parameter” icon

11) [Parameter Setting] tab setting

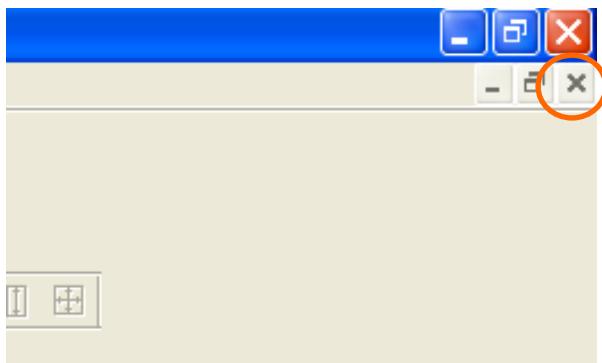
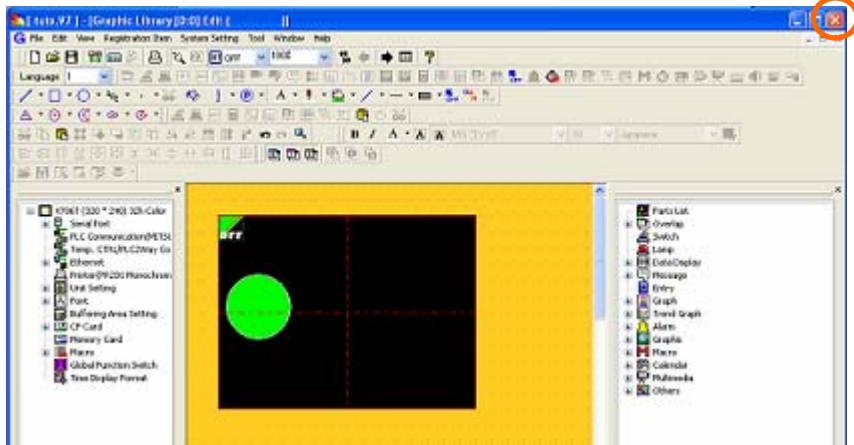


[Parameter Setting] tab setting

- (a) [Action]: Animation
- (b) [Center X]: Increment + 1
- (c) [Center Y]: Increment + 2
- (d) [Radius]: Increment + 3

Click after completion

12) Close [Graphic Library] screen



Close [Graphic Library] 0:0:0:0

Operation Check



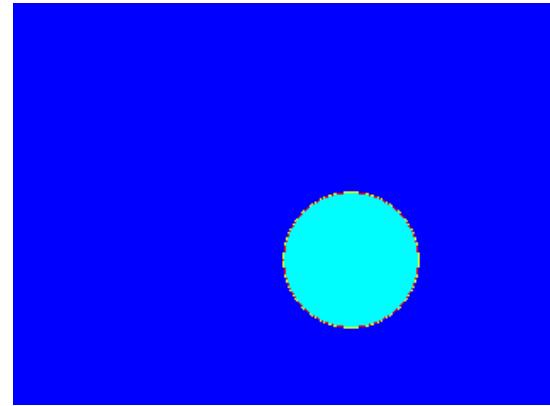
Display, move and transform the graphic.

(1)



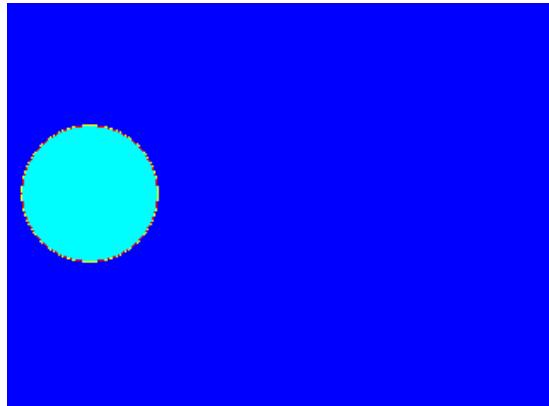
Bit 0 of 4 00700: OFF

(3)



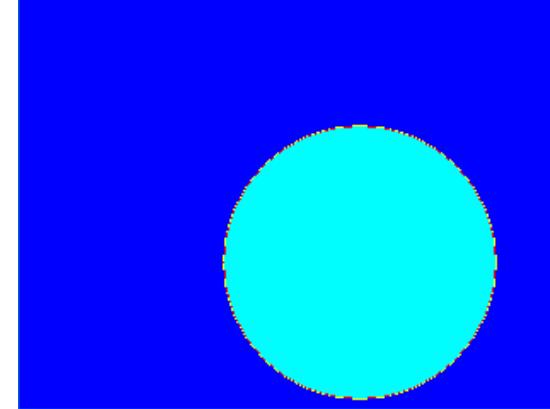
Bit 0 of 4 00700 : ON, 4 00701(X axis) : 150,
4 00702 (Y axis) : 40

(2)



Bit 0 of 4 00700 : ON

(4)



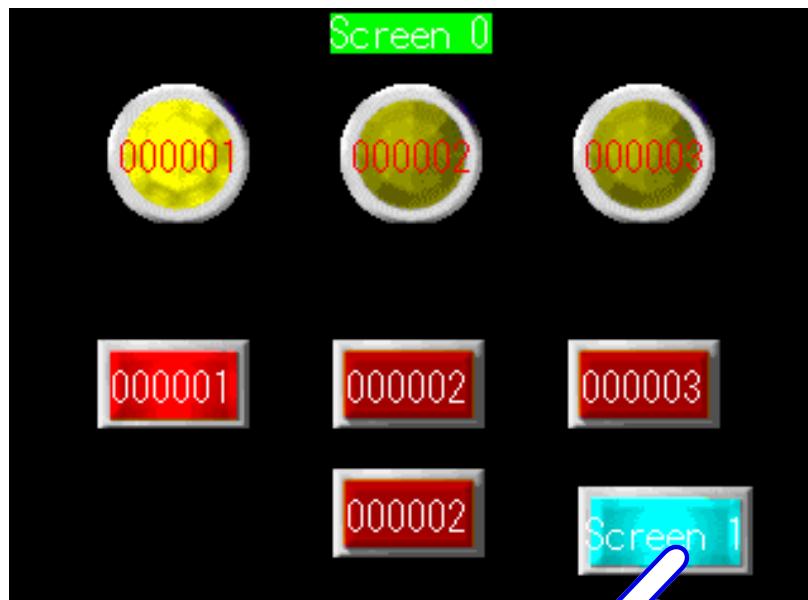
Bit 0 of 4 00700 : ON, 4 00701(X axis) : 150,
4 00702 (Y axis) : 40, 4 00703 (Radius) : 40

Appendix-1. How can I change the screen to be displayed by using a switch?

 MONITOUCH

Completed screen

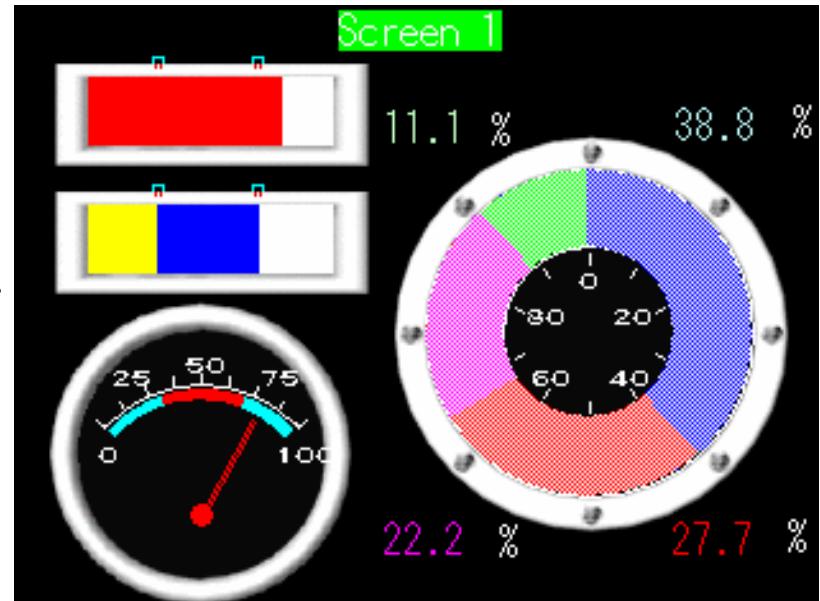
Screen 0



Click the switch.



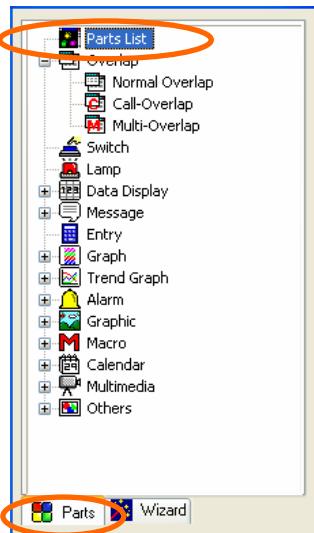
Screen 1



Screen 1 displayed.

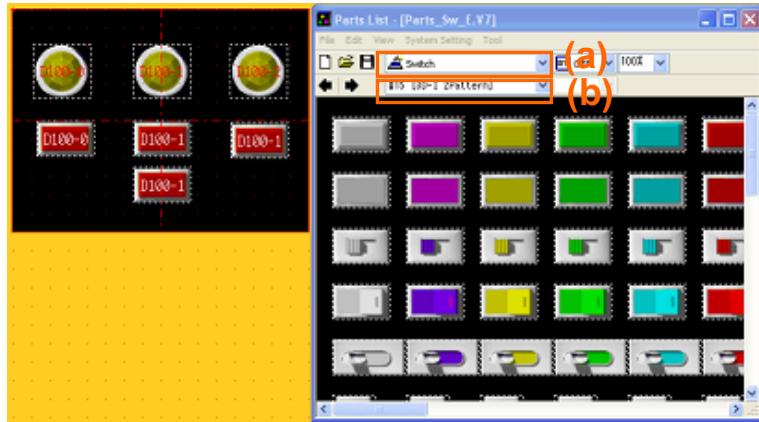
Function used □ Switch

1) Select from [Catalog View]



[Catalog view] > [Parts] tab > [Parts List]

2) Select from [Parts List]

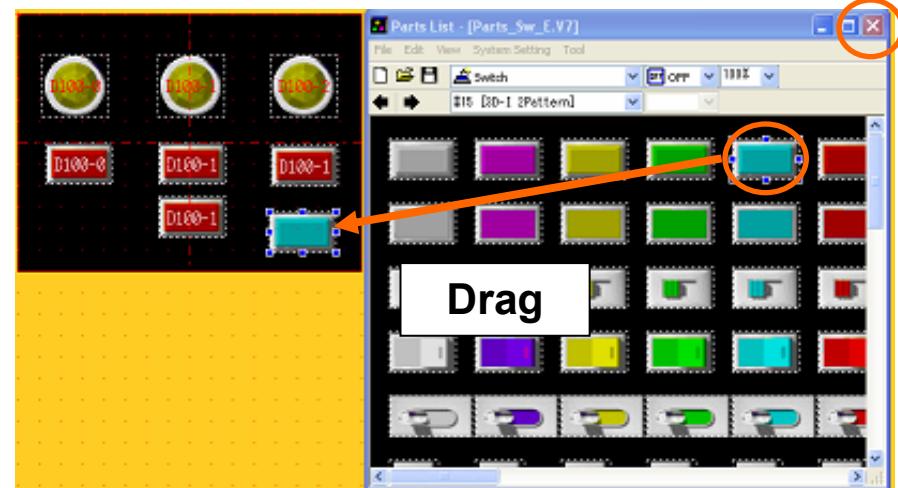


Select Switch from [Parts List]

(a) Switch

(b) #15 [3D-I 2Pattern]

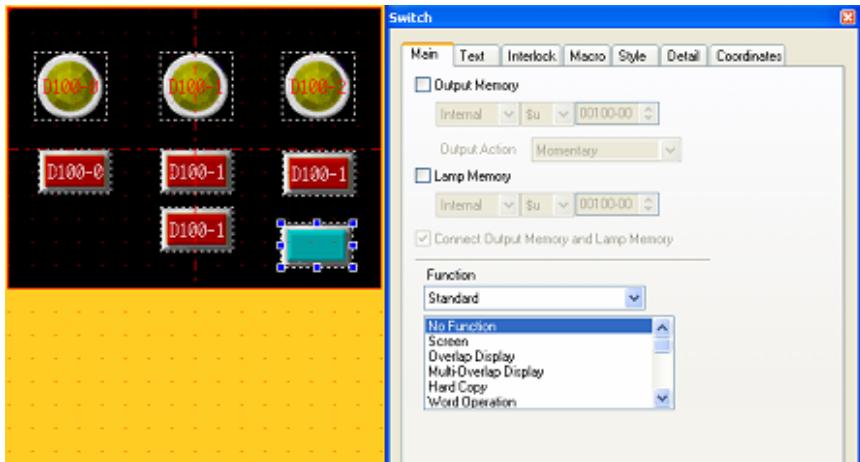
3) Placement of Switch



Select Switch > Place by dragging

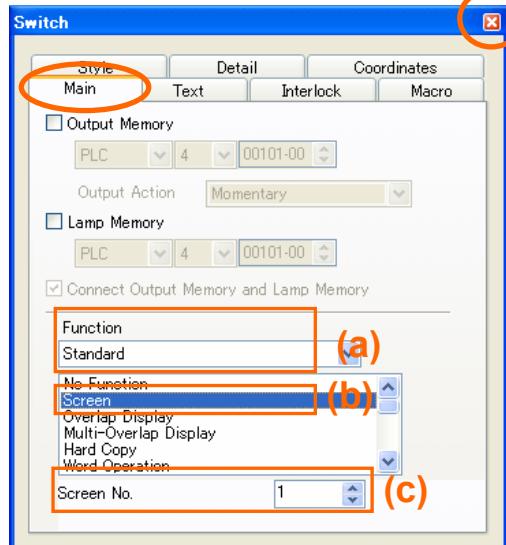
Click close [Parts List]

4) Open [Item view]



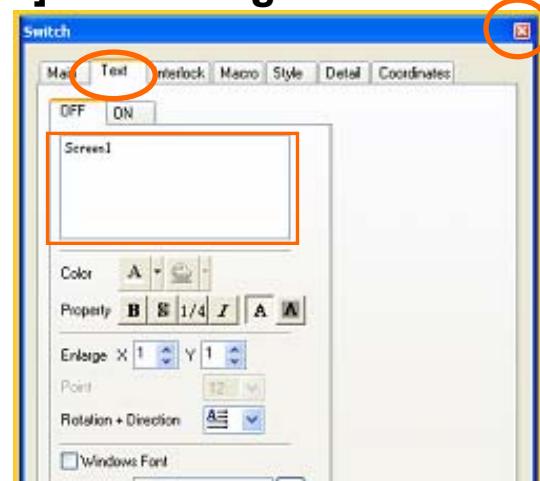
Click the switch that was placed

5) [Main] tab setting



Set the function of Switch under [Main] tab

6) [Text] tab setting



Input the text to display on Switch
> Click **X** of Item view to close

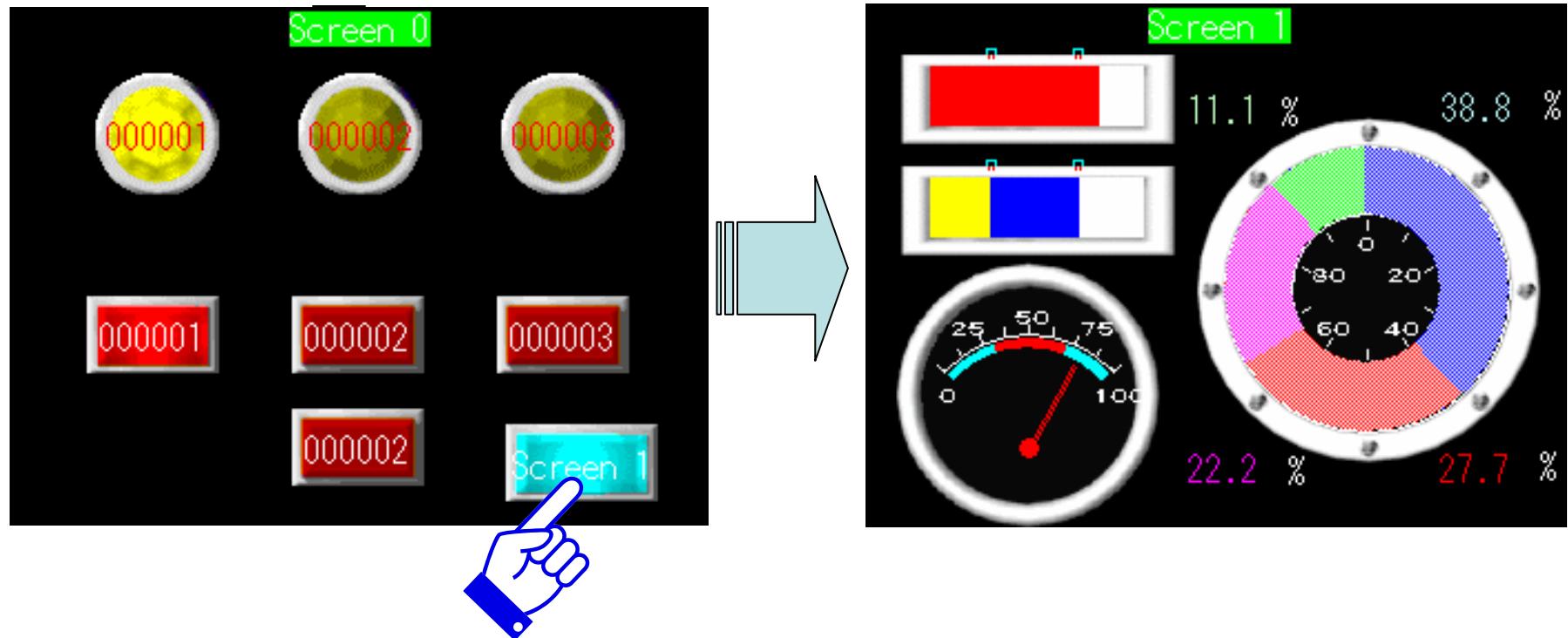
7) [Text] Placement



Operation Check

MONITOUCH

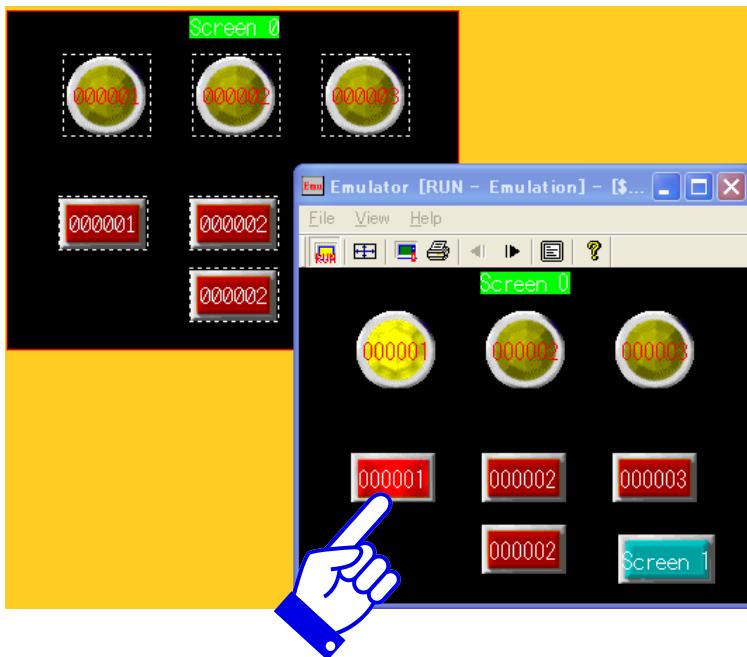
Let's shift the display from Screen 0 to Screen 1 by pressing the switch.



Appendix-2. How can I debug on PC?

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Screen 0



Check the operation by clicking the switch on PC

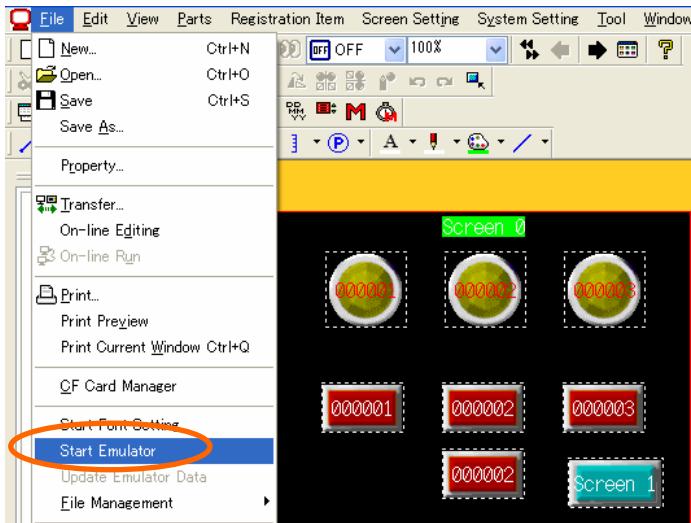
Screen 1



Check the operation by entering some value in PLC memory

Functions used Emulator and Simulator

1) Start [Emulator]



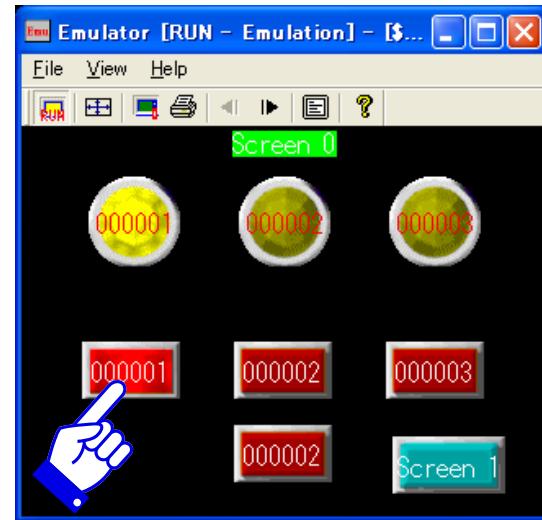
[File] > [Start Emulator]

2) Operation check of Switch and Lamp



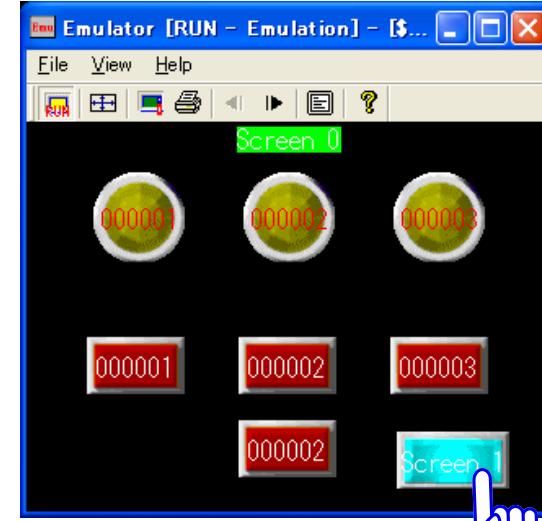
Set a mouse by a Switch on [Emulator]

3) Press switch



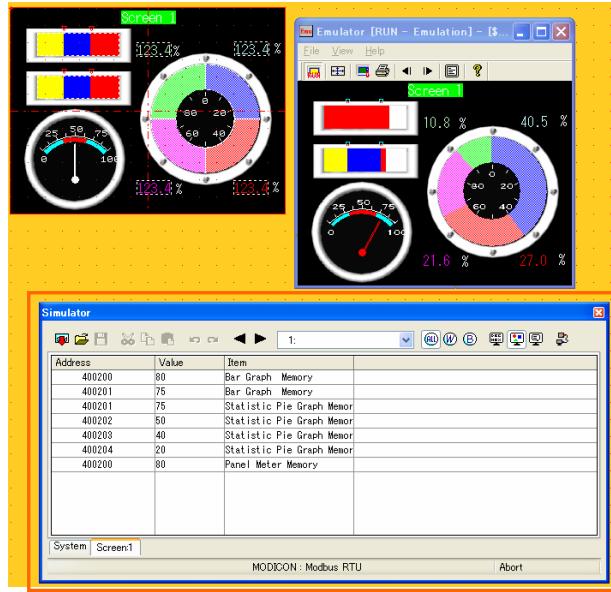
Click the switch to light the lamp up

4) Move to Screen 1

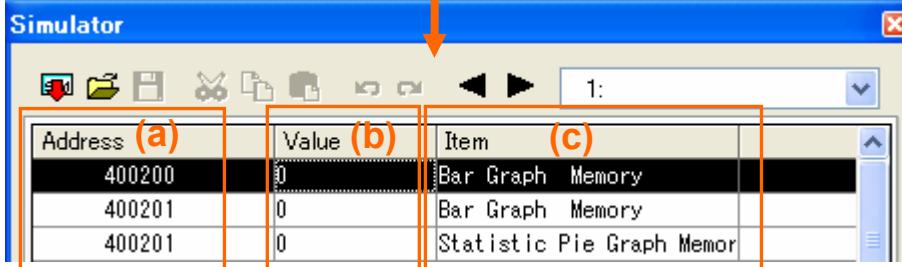


Move to Screen 1 with a Switch

5) Start [Simulator]



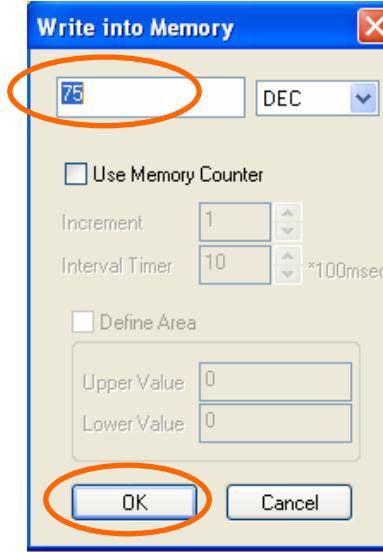
[Simulator] automatically starts up when [Emulator] runs



Configuration of [Simulator]

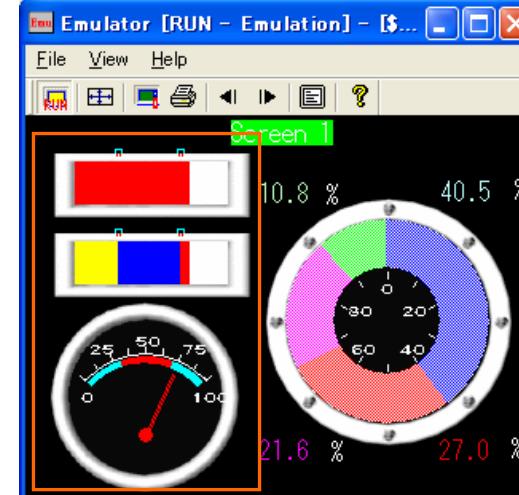
- (a) Address: Memory list currently used on the Screen No1
- (b) Value: Present value of the memory
- (c) Item: Name of the item, which the memory is used

6) Enter the value to 4 00200



Enter "75" > Click [OK]

7) Operation Check



Double-click (b)

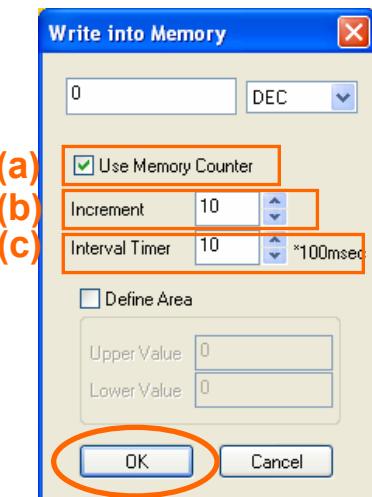
8-1) Memory Counter Setting

Address	Value	Item
400200	75	Bar Graph Memory
400200	75	Bar Graph Memory
400201	75	Statistic Pie Graph Memor
400202	60	Statistic Pie Graph Memor
400203	40	Statistic Pie Graph Memor
400204	20	Statistic Pie Graph Memor
400200	75	Panel Meter Memory

System Screen:1 MODICON : Modbus RTU Abort

Double-click “Value” of 4 00201

8-2) Memory Counter Setting



Click OK after setting

8-3) Memory Counter Setting

Address	Value	Item
400200	75	Bar Graph Memory
400200	75	Bar Graph Memory
400201	0	Statistic Pie Graph Memor
400202	0	Statistic Pie Graph Memor
400203	0	Statistic Pie Graph Memor
400204	0	Statistic Pie Graph Memor
400200	75	Panel Meter Memory

System Screen:1 MODICON : Modbus RTU Abort

Set Memory Counter in 4 00202, 4 00203 and 4 00204

4 00202 Write into Memory Setting

(a) Use Memory Counter

(b) Increment : 15

(c) Interval Timer : 10

4 00203 Write into Memory Setting

(a) Use Memory Counter

(b) Increment : 20

(c) Interval Timer : 10

4 00204 Write into Memory Setting

(a) Use Memory Counter

(b) Increment : 25

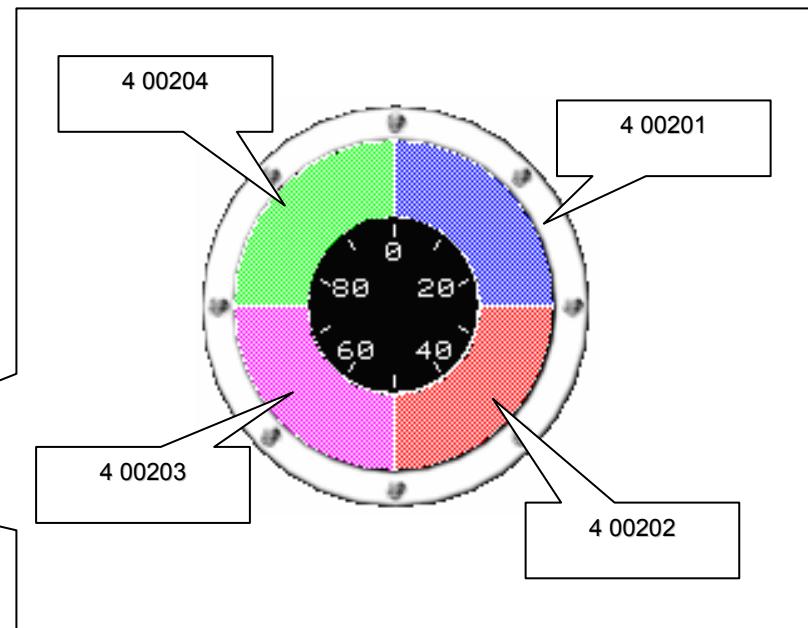
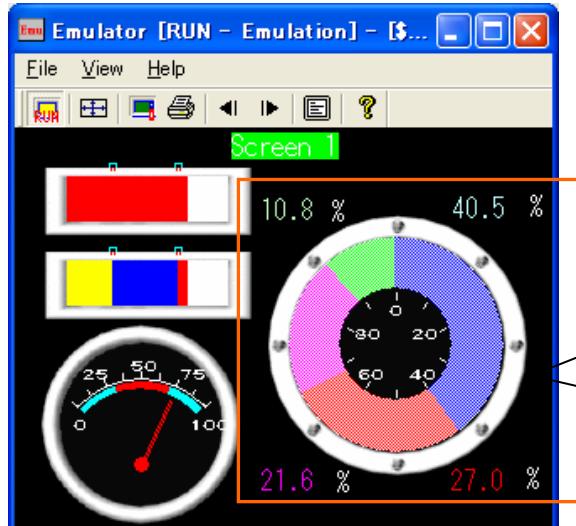
(c) Interval Timer : 10

9) Start Memory Counter

Address	Value	Item
400200	75	Bar Graph Memory
400200	75	Bar Graph Memory
400201	7	Statistic Pie Graph Memor
400202	7	Statistic Pie Graph Memor
400203	7	Statistic Pie Graph Memor
400204	6	Statistic Pie Graph Memor
400200	75	Panel Meter Memory

Click on mark > Hourglass will be shown

10) Operation Check

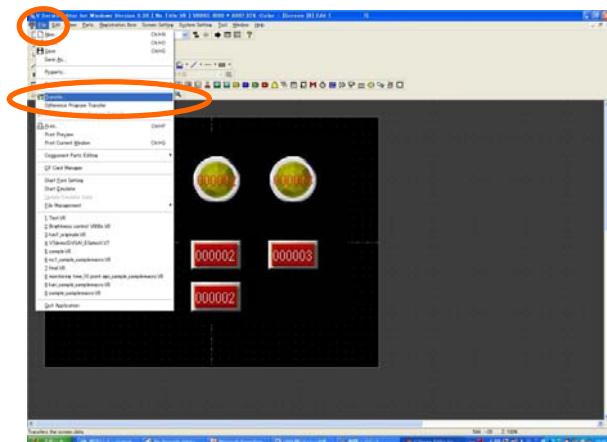


Reference: How to use “Simulator”

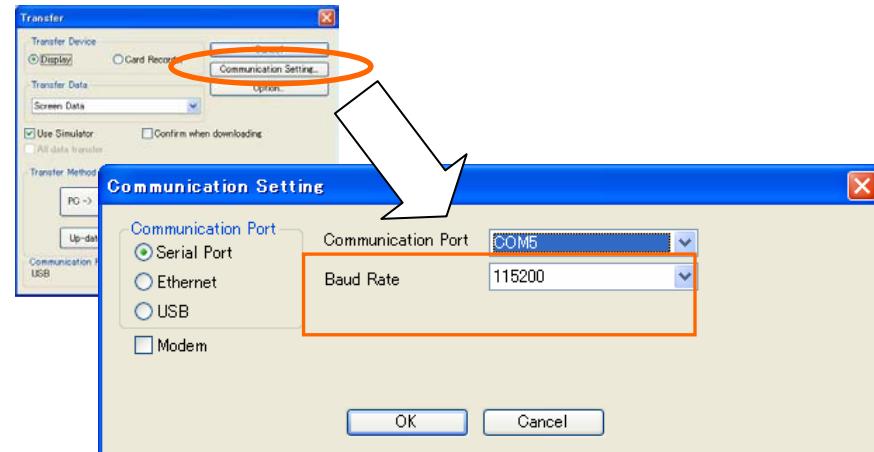
Simulator enables you to debug your program on V8 without connecting PLC.

On V-SFT-5

1) [File] >[Transfer]



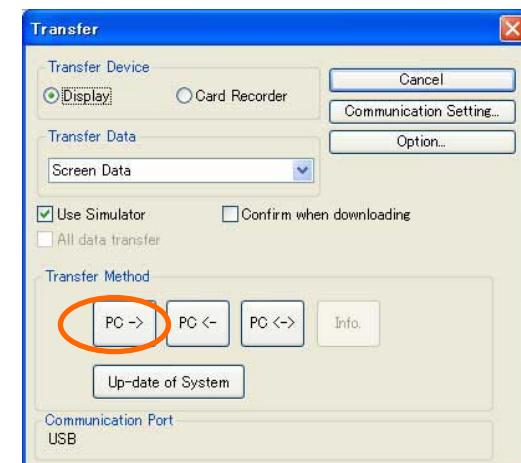
3) Set COM port



2) Check [Use Simulator]

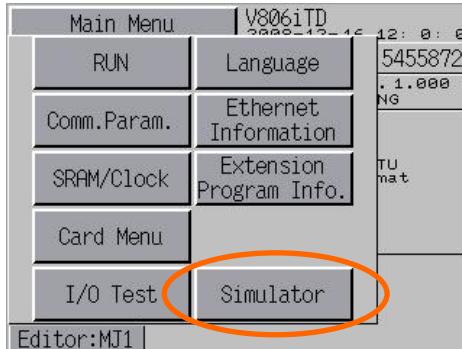


4) Transfer screen program and special driver



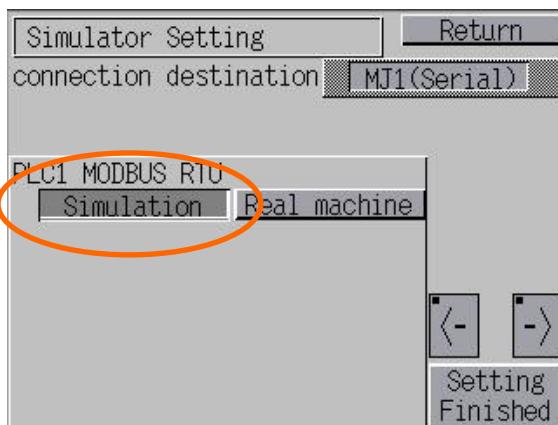
On V8 unit

1) [Main Menu] > [Simulator]

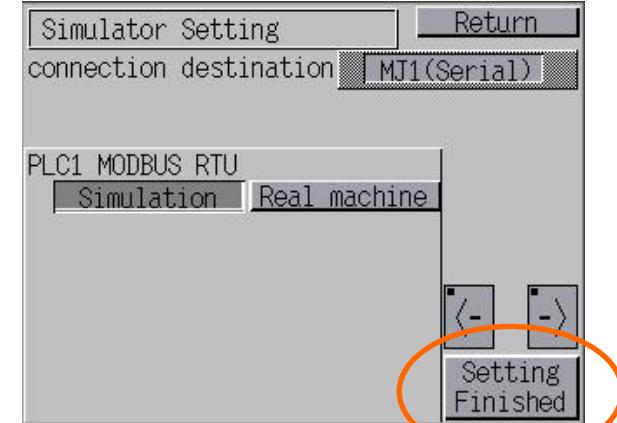


You will see [Simulator] button only when you check [Use Simulator] and download special driver to V8.

2) Press [Simulator] to talk to Simulator



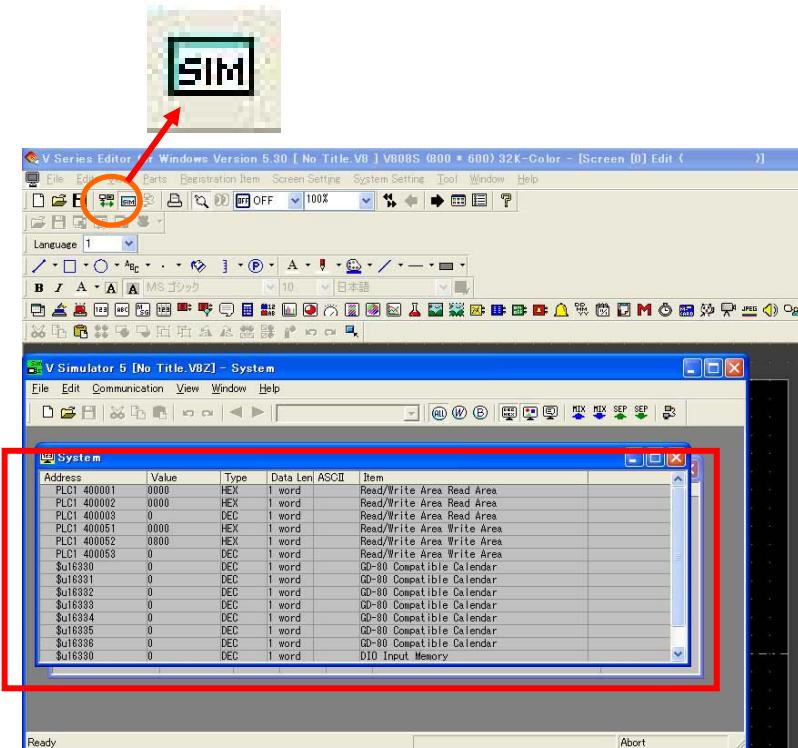
3) Press [Setting Finished]



Debugging using Simulator

 MONITOUCH

Click [SIM] icon.



Run Simulator and test your program.

