

Chapter 2

Run State Screen

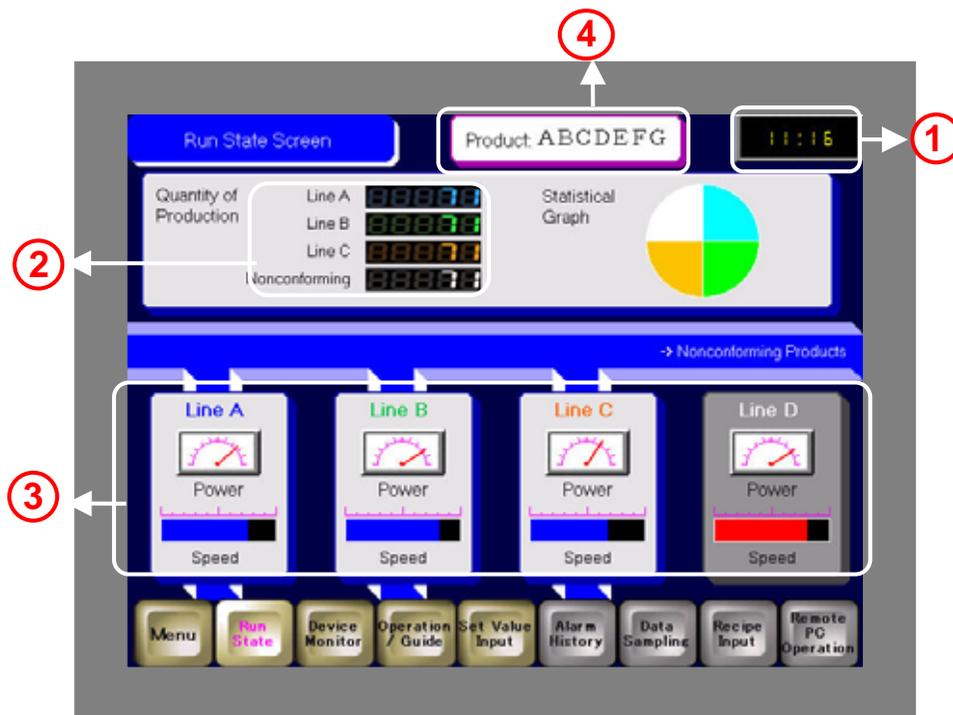
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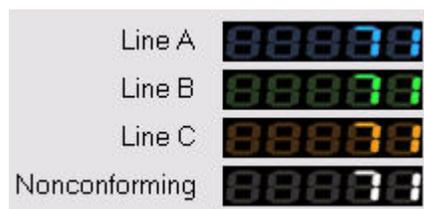
Run State Screen

Instruction

The run state screen is a screen to check or confirm data of a whole device. This section explains how to display the current time, numeric data such as a quantity of productions, and a graph of power/speed data.



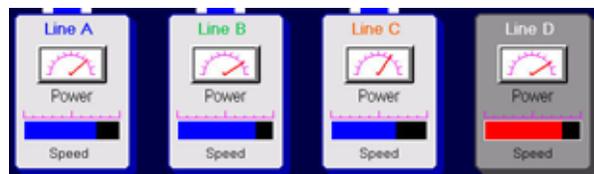
- 1) Display quantities of productions of each line.
(→ See page 2-2.)



- 2) Display the current time referring to clock data in the GP unit.
(→ See page 2-6.)



- 3) Display power and speed data of each line in a graph.
(→ See page 2-9.)



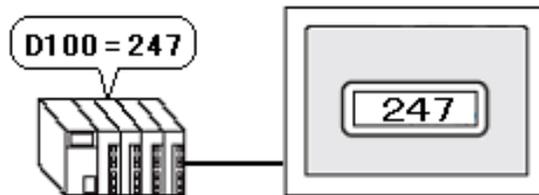
- 4) Display text data such as a product name or a lot number.
(→ See page 2-12.)



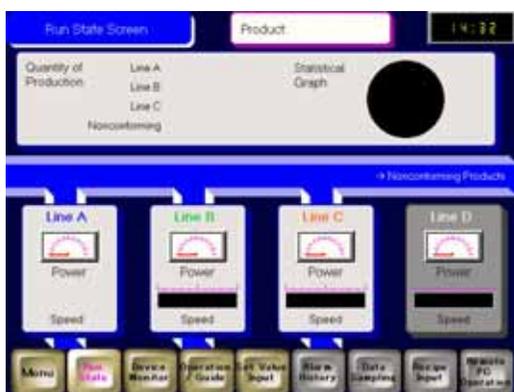


Let's Display Quantity of Production

To display numeric values such as a quantity of productions, use the “Data Display: Numeric Display” feature.



<Practice Screen>



<Completed Screen>



- [Setup Procedures]
1. Open the base screen “2”.
 2. Select, place, and set the Data Display: Numeric Display.

(1) Select/Place Data Display

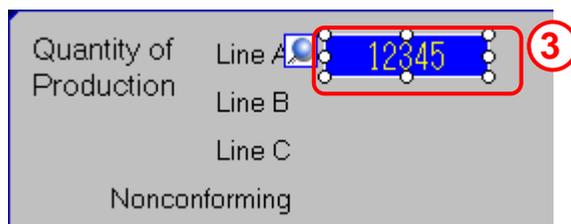
1) Open the base screen “2”.



2) Click the [Data Display] icon on the tool bar.



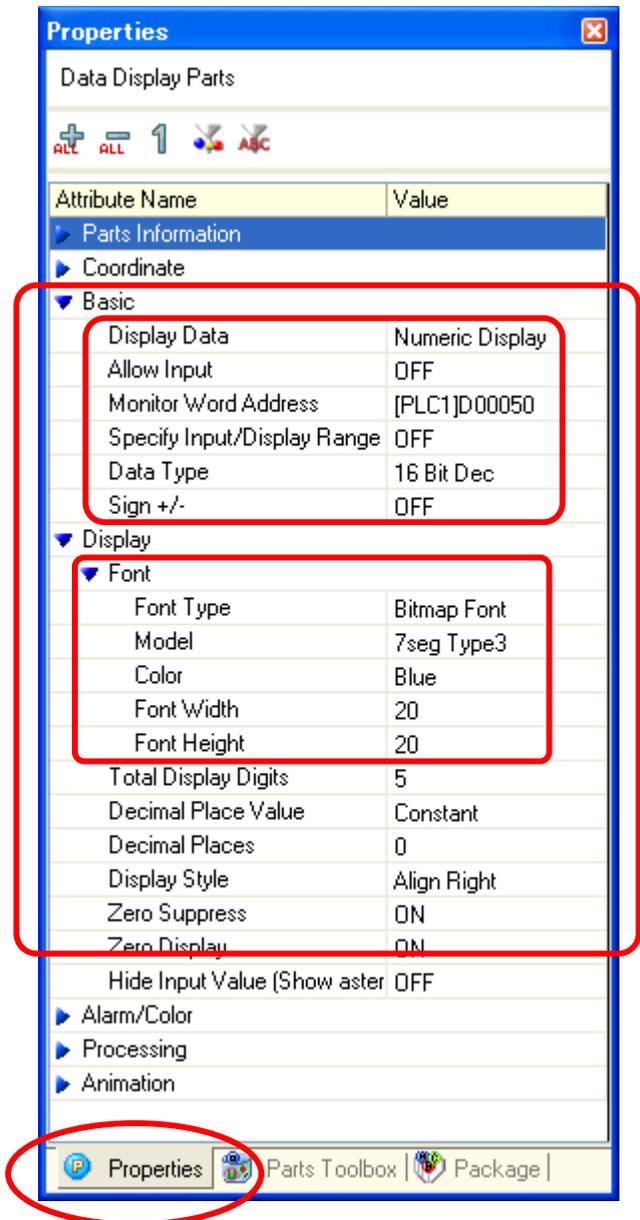
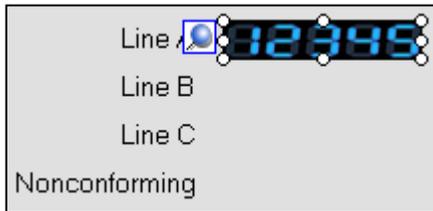
3) Drag the range to place the data display.



(2) Change Attribute

Select the placed data display and edit it in the Properties window as right.

Setting Example

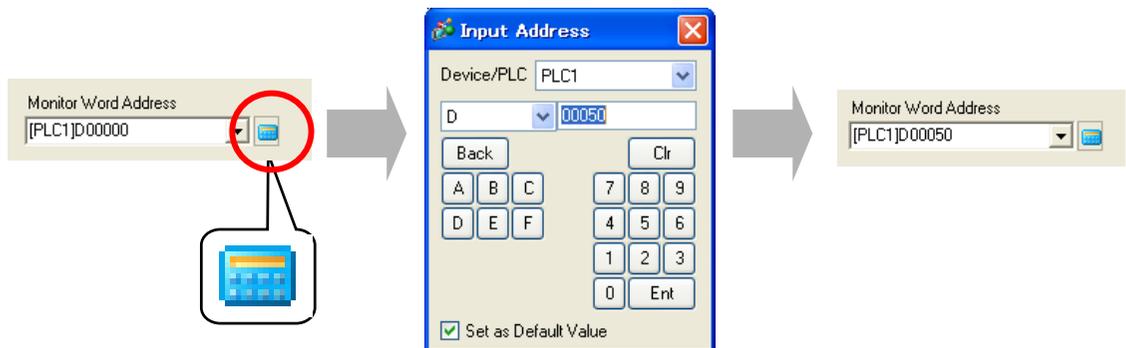


One Point

Address Input

e.g.) Set "D50"

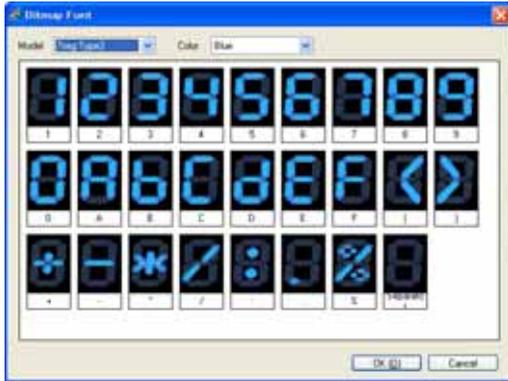
Set "D" for the device and "50" for the address. Then click [Ent].



★ **One Point**

Bitmap Font

In addition to 7-segment type, there are various models such as Neon, LED, Metal. 6 colors which are white, red, green, yellow, orange, and blue can be selected for each model.



Neon



Meter



Acrylic



LED

Click [Settings] to check each model's image.

★ **One Point**

Display Style

Display Style: Select the alignment of the numeric value in the numeric display area: "Align Right", "Align Center", or "Align Left".

Zero Suppress: Set to display leading zeros or not.

e.g.) Total Display Digit = 5
 Checked: 123
 Not Checked: 00123

Zero Display: Set to display "0" or not when the data is "0".

e.g.) Checked: 0
 Not Checked: Not Displayed

7-segment Display: Displays values like ones on a calculator. *



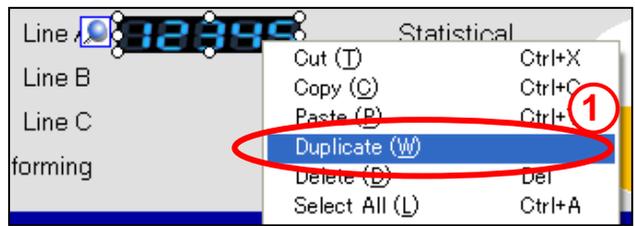
Auto-size Font: Displays values in stroke fonts without the top and bottom margins. * This option is can't be selected when the [7-segment Display] is selected.

Hide Input Value (Show asterisks): Displays the input values as asterisks. This option can be used for password input.

* 7-segment Display and Auto-size Font can't be selected when the Font Type is set to Bitmap Font.

(3) Duplicate

1) Select the data display, right-click, and select "Duplicate."



2) Set items as follows and click OK.

Specify Range:

Set Up Using The Mouse

X Direction: Not Checked

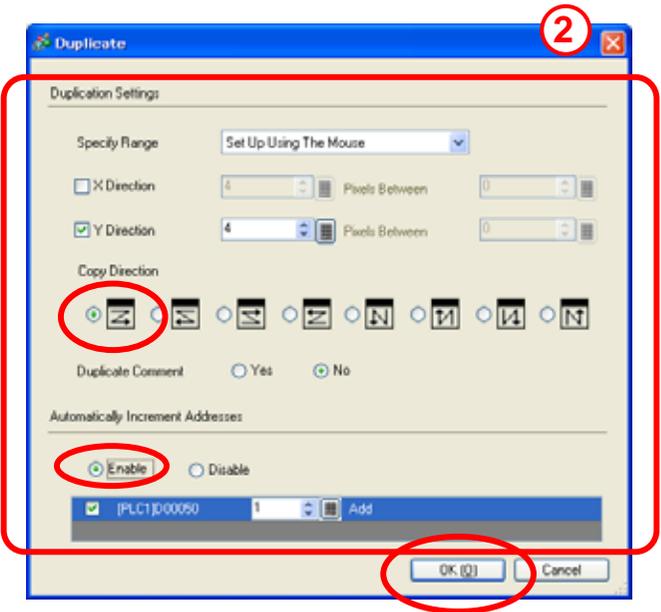
Y Direction: 4

Copy Direction:

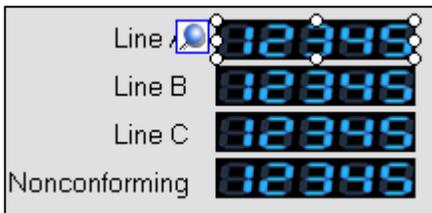


Duplicate Comment: No

Automatically Increment Addresses:
Enable, 1



3) Designate the range with the mouse, and 4 data displays are now placed in the range.



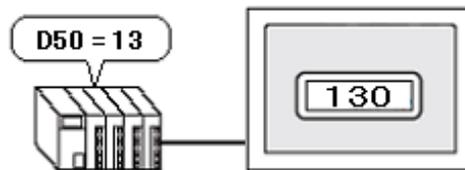
Addresses: D50, D51, D52, and D53 from above

★ One Point

Multiply stored data by 10 and display it.

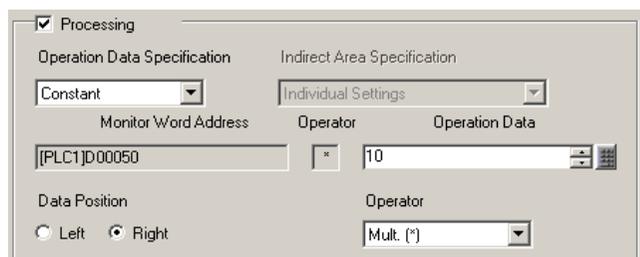
Set as follows:

- 1) Check [Processing].
- 2) Set [Operation Data Specification] to "Constant".
- 3) Select "Multiple (*)" in [Operator].
- 4) Specify "10" in [Operation Data].



Setting Example

Operation Process tab in the Data Display dialog box.

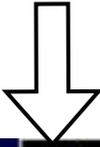




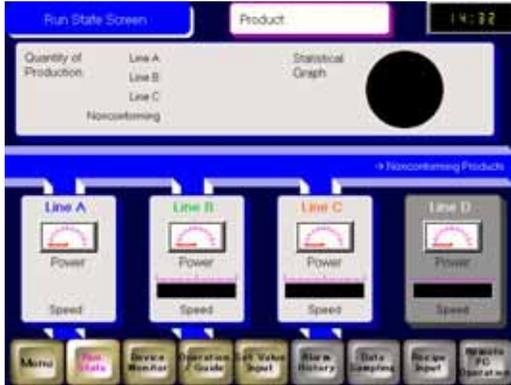
Let's Display Current Time

To display the time on the GP unit, use the "Data Display: Date/Time Display" feature. The Data Display displays the clock data in the GP unit.

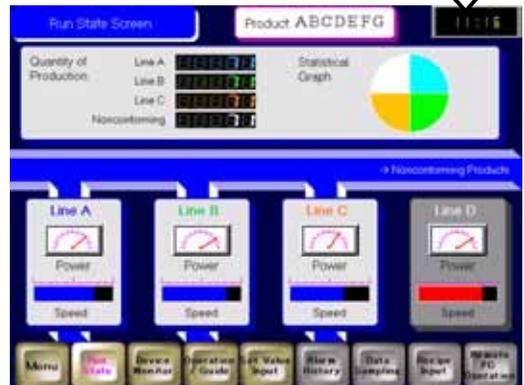
2005/01/20 (Thu) 09:32



<Practice Screen>



<Completed Screen>



- [Setup Procedures]
1. Open the base screen "2".
 2. Select, place, and set the Data Display: Date/Time Display.

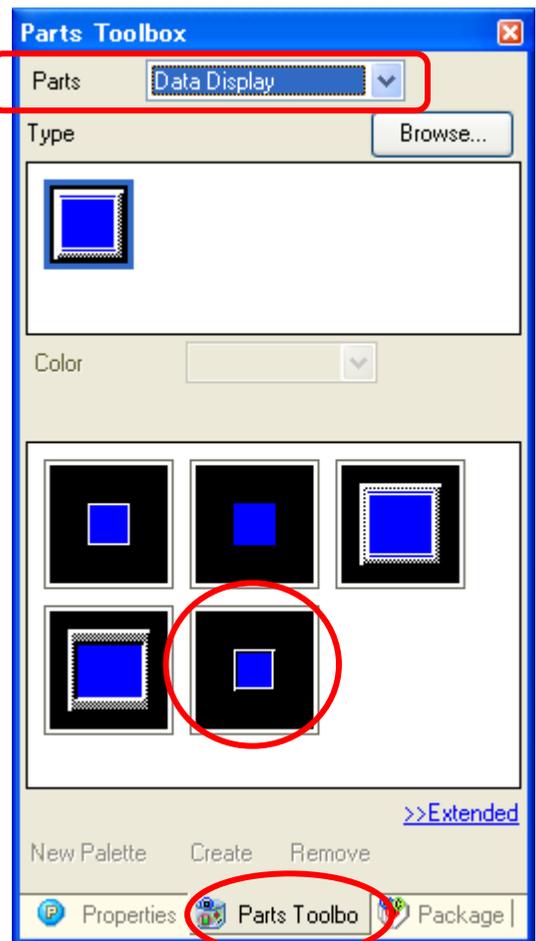
(1) Select/Place Data Display

- 1) Open the base screen "2".
- 2) Select a shape of Data Display in the Parts Toolbox and drag and drop it on the base screen.



★ One Point

If you use Header, you can share parts on multiple screens.
(See the next page)



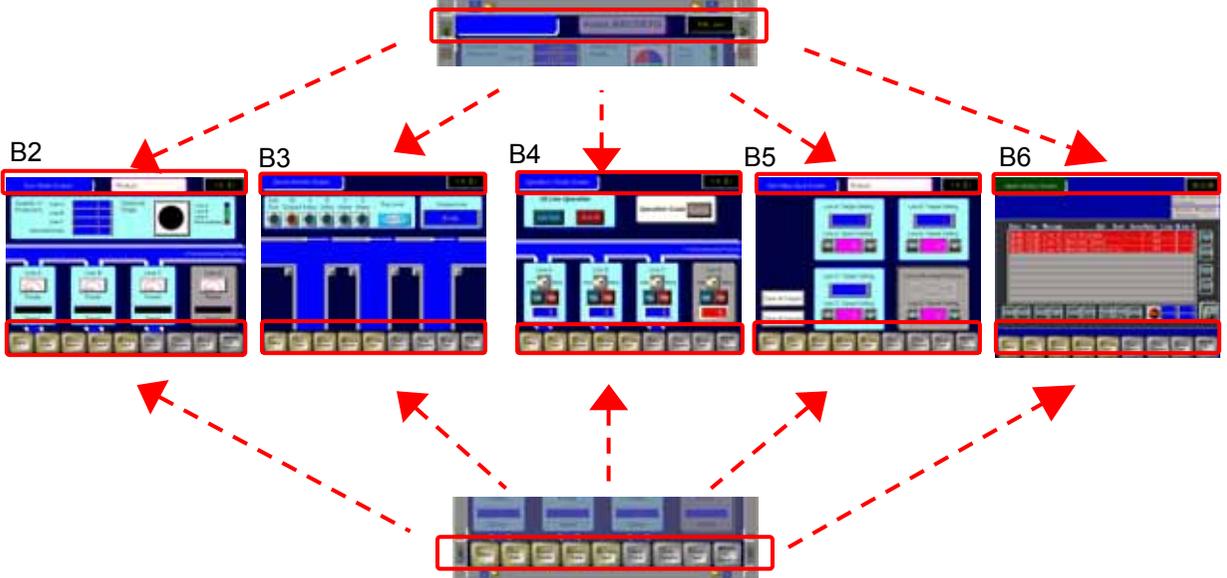
★ One Point

Header and Footer

To use parts or drawings, which are placed on the upper or bottom of a screen, on multiple screens, register the parts and drawings as headers or footers.

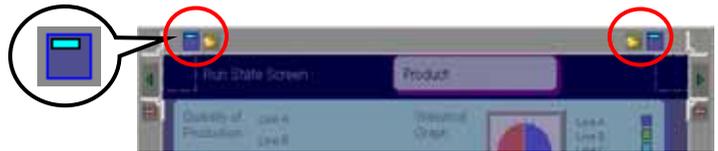
Drawing Sample

Title background and clock display on the upper of the screen

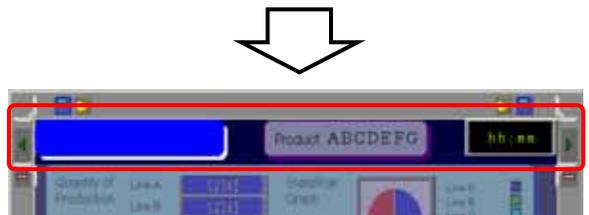


Screen-change switches at the bottom of the screen

- 1) Click the [Edit Header] button on the screen.



- 2) Place objects to share on other screens.



- 3) You can switch multiple headers or footers with the Previous/Next buttons at both ends and delete them with the Delete button.



Previous/Next Button



Delete Button



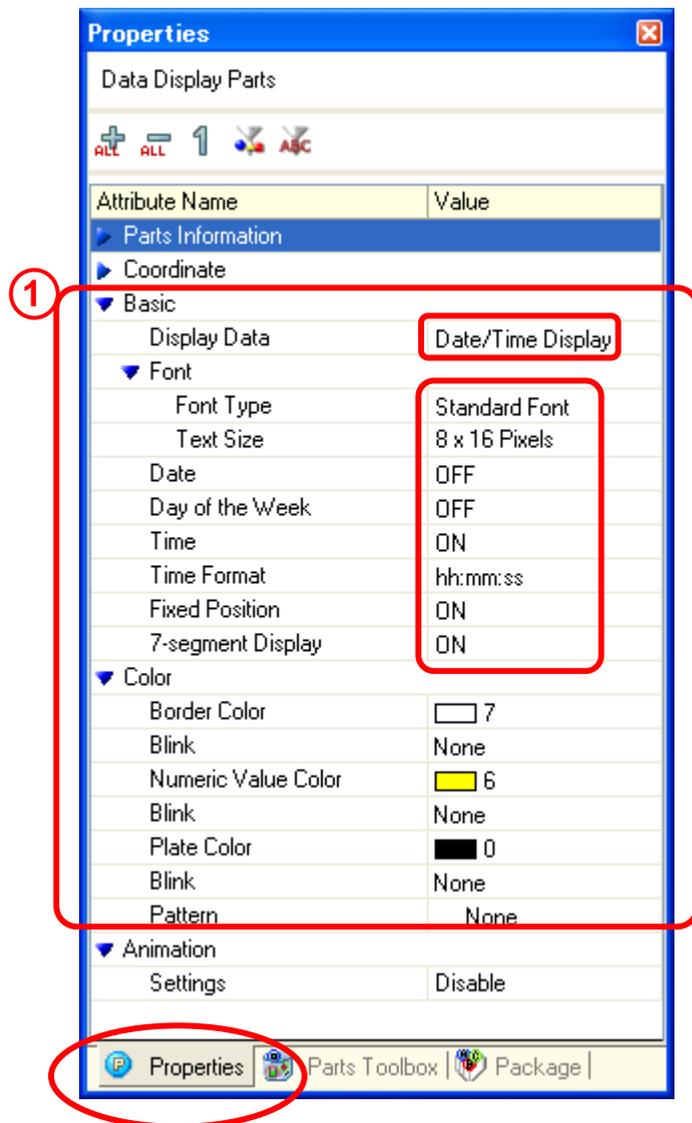
Select Header/Footer



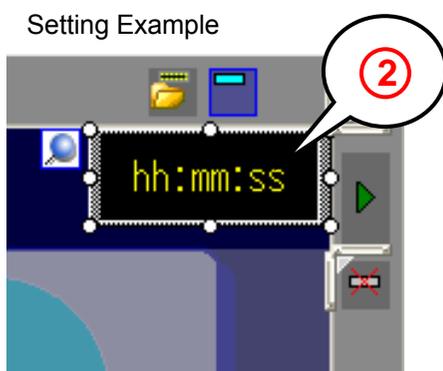
* Edit the footer in the same way.

(2) Change Attribute

- 1) Select the placed data display and edit it in the Properties window as right.



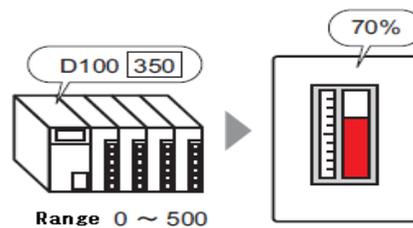
- 2) Drag the handle and adjust the size of the part.



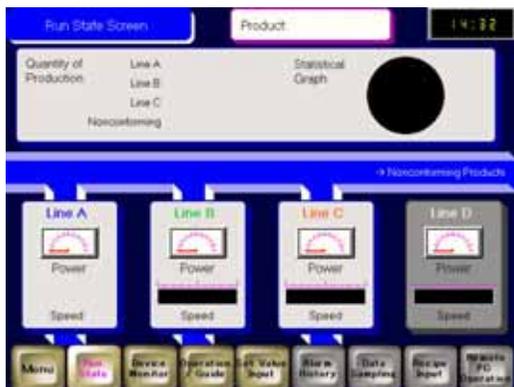


Let's Display Line Speed in Graph

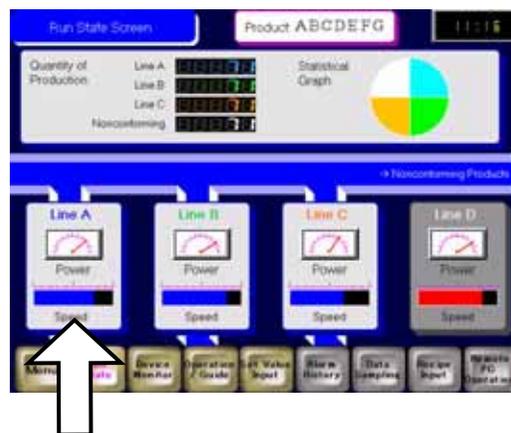
This section explains how to set the “Graph: Normal Graph / Statistical Graph / Meter Graph” feature, which is often used to display data of speed or power.



<Practice Screen>



<Completed Screen>

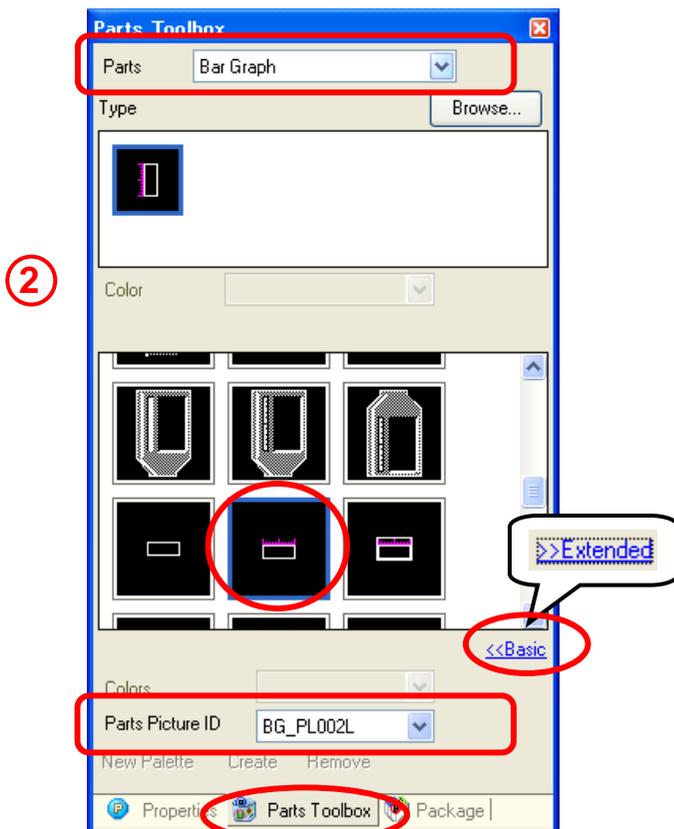
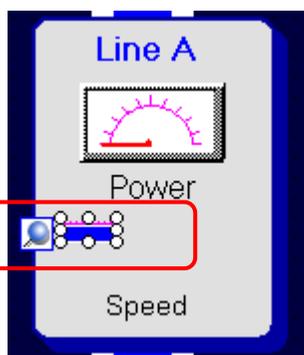


- [Setup Procedures]
1. Open the base screen “2”.
 2. Select, place, and set the Graph: Normal Graph.

(1) Select/Place Graph

- 1) Open the base screen “2”.
- 2) Select a shape of Bar Graph in the Parts Toolbox and drag and drop it on the base screen.

To show the Parts Picture ID, click the “Extended” icon.



(2) Change Attribute

- 1) Select the placed bar graph and edit it in the Properties window as right.

Input Specification:

Specify "Constant" when the minimum and maximum values are fixed, or "Address" when they are variable.

Input Sign:

Select a sign or none.

Min./Max.:

Set the minimum and maximum values of the input range. When you select "Address" for [Input Specification], specify addresses to store values in.

Properties

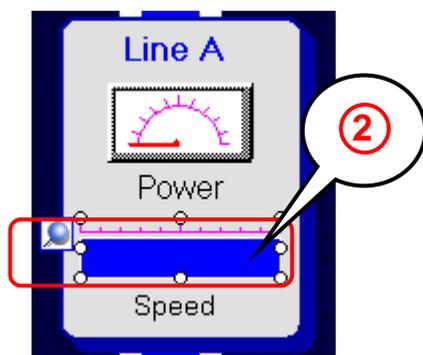
Graph

Attribute Name	Value
▶ Parts Information	
▶ Coordinate	
▼ Basic	
Graph Mode	Normal Graph
Monitor Address	[PLC1]D00055
Data Type	16 Bit Bin
Bit Length	16
▼ Input Range Settings	
Input Specification	Constant
Input Sign	None
Min.	0
Max.	100
▼ Display Range	
Display Sign	OFF
▼ Graph Shape	
Graph Shape	Bar Graph
Display Direction	Right
Show Fill	ON
▼ Color	
▼ Range Settings	
▼ Range Number 1	
Display Color	1
Blink	None
Pattern	None
Border Color	7
Blink	None
Background Color	0
Blink	None
▶ Alarm Settings	
▼ Scale	
Scale Divisions	2
Show Minor Scale	ON
Scale Divisions	5
Scale Color	5
Blink	None
▶ Animation	

Properties | Parts Toolbox | Package

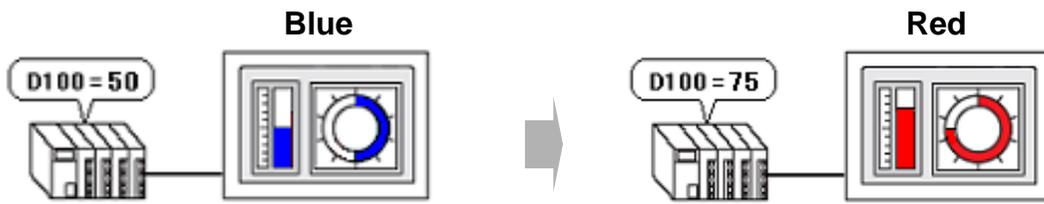
- 2) Drag the handle and adjust the size of the part.

Setting Example



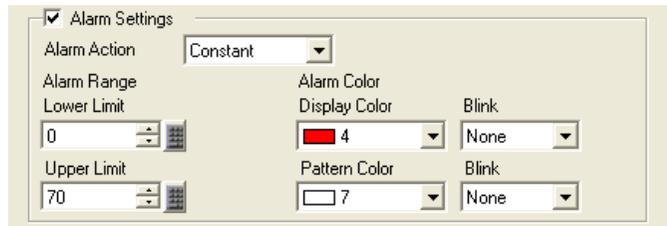
★ **One Point**

Display a graph in red when displayed data is 71 or above.



Set as follows:

- 1) Check [Alarm Settings].
- 2) Select "Constant" for [Alarm Action].
- 3) Set [Lower Limit] to "0" and [Upper Limit] to "70" for [Alarm Range].
- 4) Set [Display Color] to "Red: 4" in [Alarm Color].



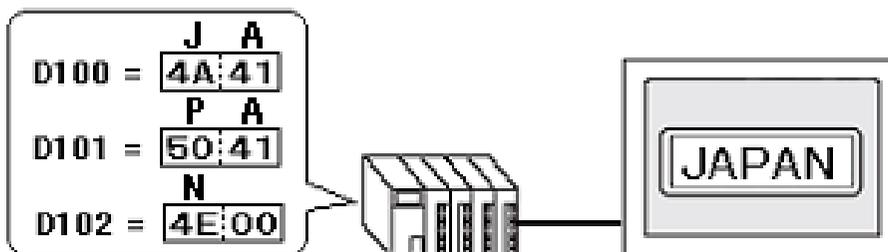
Setting Example

Color tab in the Graph dialog box.

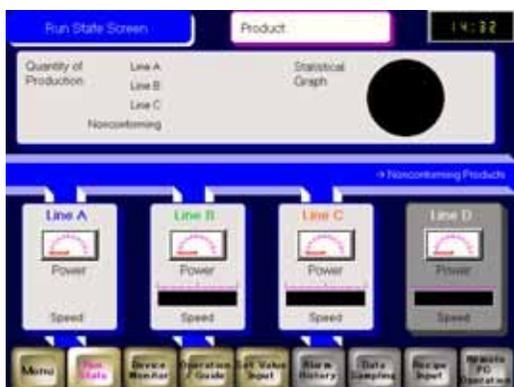


Let's Display Product Name

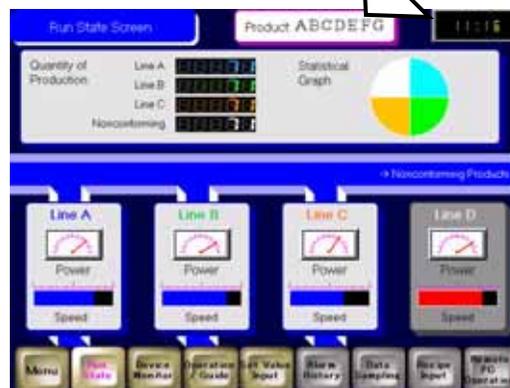
To display text by reading text data stored in a device/PLC, use the “Data Display: Text Display” feature.



<Practice Screen>



<Completed Screen>



- [Setup Procedures]
1. Open the base screen “2”.
 2. Select, place, and set the Data Display:Text Display.

(1) Select/Place Data Display

1) Open the base screen “2”.

2) Click the [Data Display] icon on the tool bar.



3) Drag the range to place the data display.



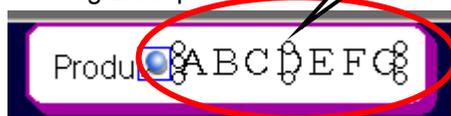
(2) Change Attribute

- 1) Select the placed data display and edit it in the Properties window as right.

In the [Monitor Word Address] field, set a top address which stores text data to display.

- 2) Drag the handle and adjust the size of the part.

Setting Example



Check the performance in the Simulation mode.



Or F12 key

Attribute Name	Value
Parts Information	
Coordinate	
Basic	
Display Data	Text Display
Allow Input	OFF
Monitor Word Address	(PLC1D00060)
Display	
Font	
Font Type	Standard Font
Display Language	ASCII
Text Size	16 x 16 Pixels
Text Attribute	Normal
Display Characters	7
Display Style	Align Left
Hide Input Value (Show aster	OFF
Color	
Text Color	0
Blink	None
Plate Color	7
Blink	None
Pattern	None
Animation	
Settings	Disable

Touch the hidden switch in the upper left for once second, and the value will count up.

And then check the performance of the data display and the bar graph.

第4章 操作ガイド画面
第5章 設定値入力画面
と連動して動作します。



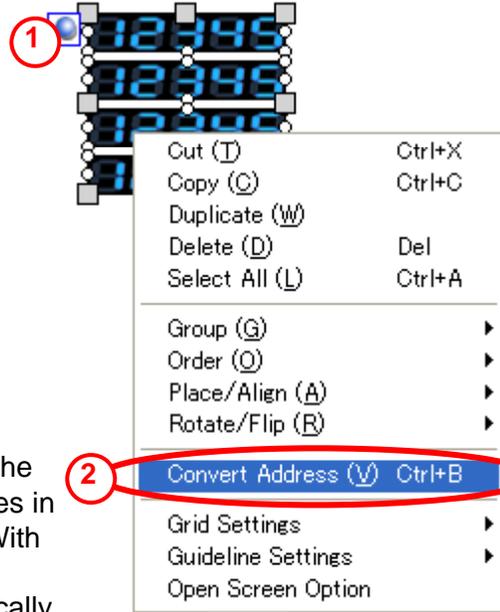
★ One Point

Address Block Conversion

The Convert Address feature allows you to change addresses set in the multiple selected parts at once.

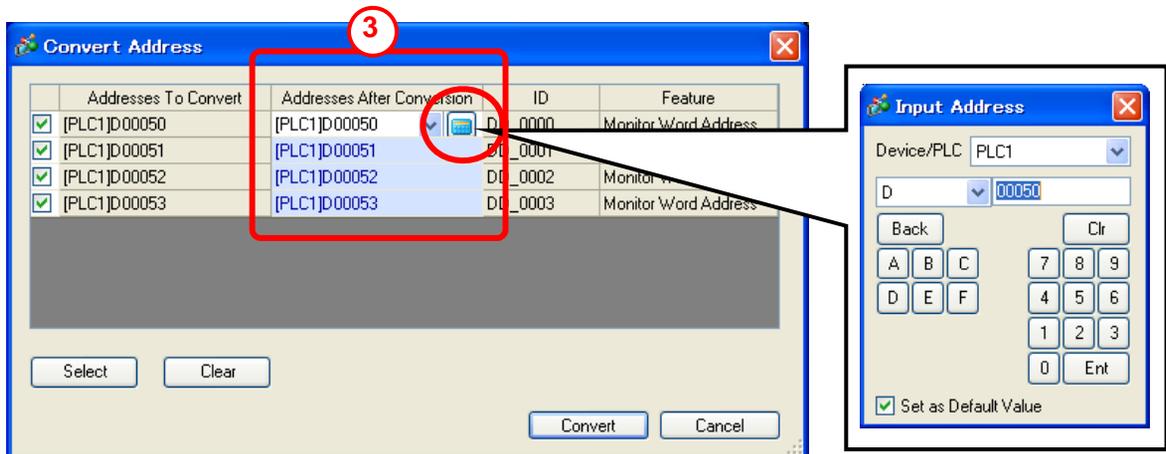
Example)

1) Select parts.



2) Right-click them and select "Convert Address."

3) In the Convert Address dialog box, check the addresses to convert and change the values in the Addresses After Conversion column. With specifying only the top address, the other selected addresses are changed automatically.



To check multiple addresses at once, select them with the mouse and click "Select." To remove them at once, select them and click "Clear."



MEMO