

Chapter 6

Keypad Input Screen

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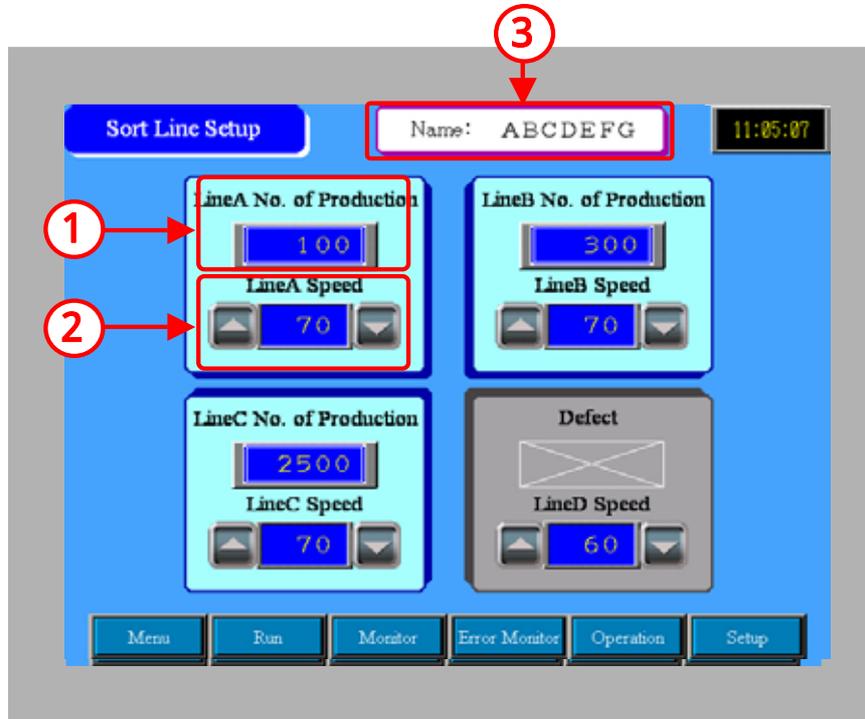
6 . 1

Keypad Input Screen



What's Keypad Input Screen?

The Keypad Input Screen is where each parameter of the device is set. The following will describe Data Display that displays the ten-key or other keypad on the touch panel to input numeric or text data and a Switch that adjusts data directly.



Enter the data directly using the ten-key.
(->P6-5 ~ for details)



The data increases or decreases every touch on the switch. (->P6-13 ~)



Enter text data directly using the Keypad. (->P6-19 ~ for details)



6.2

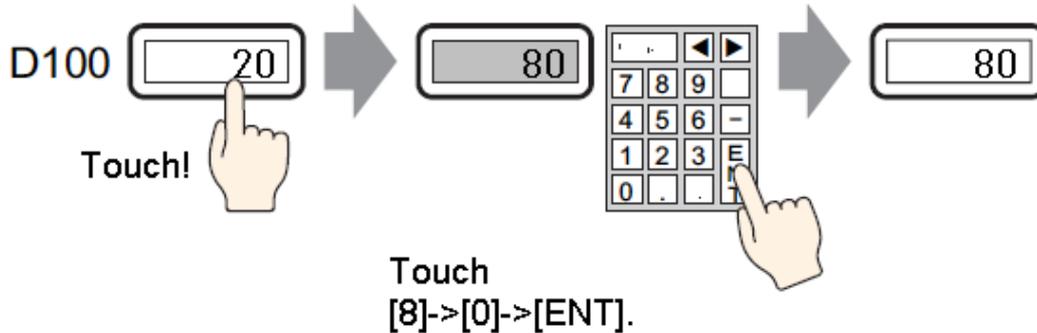
Numeric Input



How to input numeric values

In order to display the ten-key on the screen and enter data, use the [Data Display: Numeric Display].

Placing and setting the [Data Display:Numeric Display] on the screen allows you to enter data in the specified address of the connected device.



• Placement/Setting Procedure

From the menu bar's [Part], select [Data Display]->[Numeric Display] or click the [Data Display] icon. ()



Drag the pointer for the range of placement.



Double-click the Data Display and make settings.



Let's enter the target No. of production.

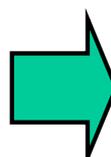
The method to draw a Data Display that inputs the production target number for each line is described.

[Setup Flow]

- 1 . Open the base screen [6].
- 2 . Select/Place/Configure [Data Display:Numeric Display].

Open the base screen [6].

[For Exercise]



[Completed]

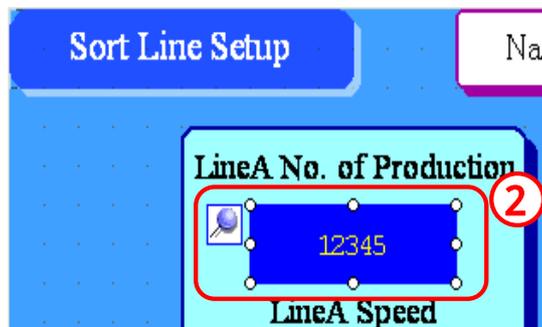


(1) Selecting/Placing the Data Display

Click the [Data Display] icon from the Tool Bar.



Drag the pointer for the range of placement.

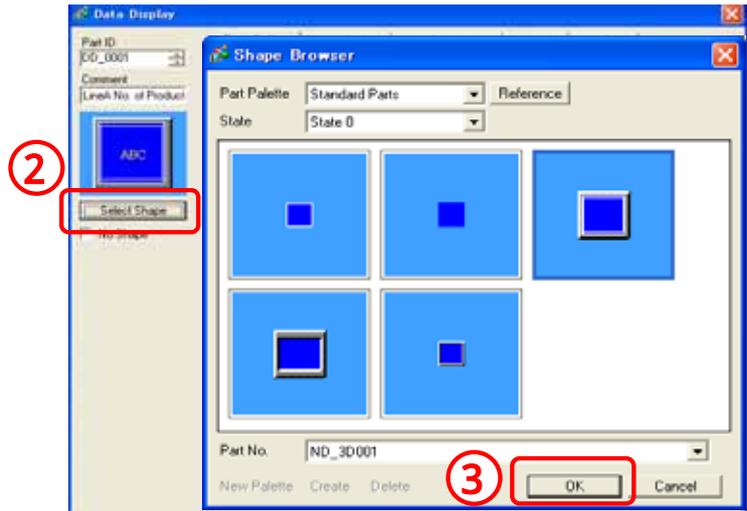


(2) Selecting a picture

Double-click the placed Data Display.

Click [Select Shape] and select a picture for the display.

After selecting the picture, click [OK].

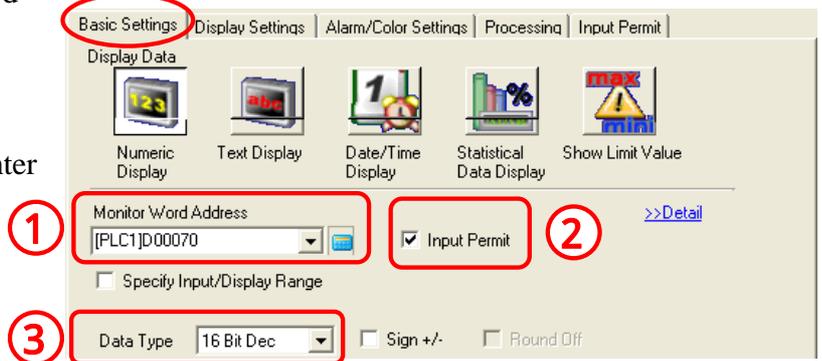


(3) Basic Settings

For [Monitor Word Address], set the word address for data input. Here, set [D70].

Checking [Input Permit] allows you to enter numeric data from the ten-key. Check [Input Permit].

Set [16 Bit Dec] for [Data Type].

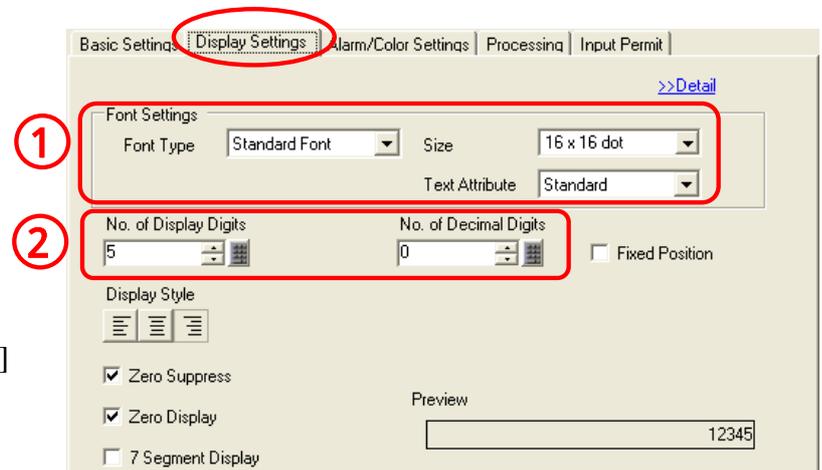


(4) Display Settings

For [Font Settings], set the font of values to be displayed. Here, set [Standard Font] for [Font Type], [16x16 dot] for [Size], and [Standard] for [Text Attribute].

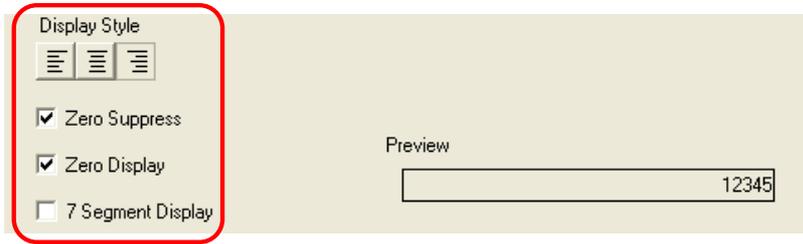
Set [5] for [No. of Display Digits] and [0] for [No. of Decimal Digits].

Set [5] for [No. of Display Digits] and [0] for [No. of Decimal Digits].



★ Hint!

To change the numeric display style, make the following settings.



Display Style: Select [Left], [Center], or [Right] for the display position of values

Zero Suppress: Set whether unnecessary leading zeros are displayed or not.

Ex.) When the No. of Display Digits is 5,

Checked 123
 Unchecked 00123

Zero Display: Set whether [0] is displayed or not when the data is 0.

Ex.) Checked 0
 Unchecked No display

7 Segment Display: The display appears like a calculator.



(5) Alarm/Color Settings

Border Color: Set the border color of the Data Display.

Numeric Value Color: Set the numeric value color of the Data Display.

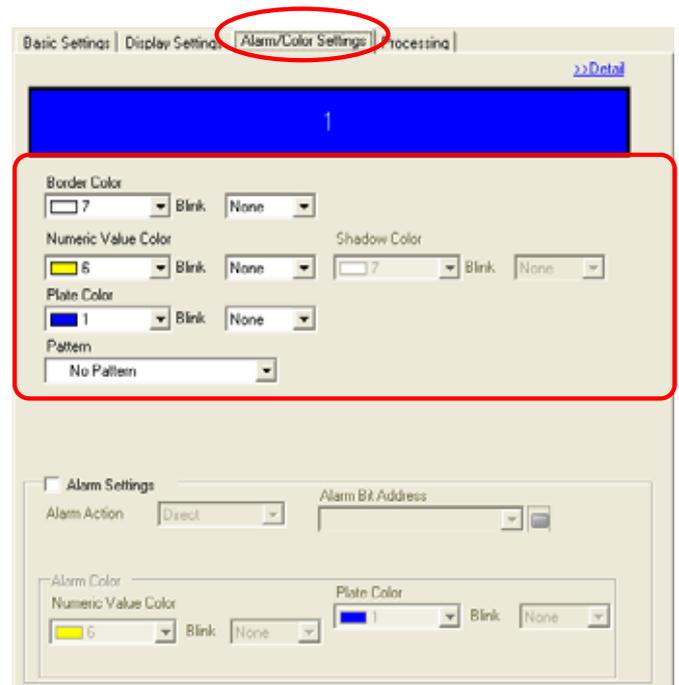
Shadow Color: Set the shadow color of numeric values of the Data Display.

Plate Color: Set the background color of the Data Display.

Pattern: Set the background pattern of the Data Display.

Pattern Color: Set the secondary color of the background pattern for the Data Display.

Blink: Set enabling/disabling Blink Display and the Blink speed.



Set the colors as you like.

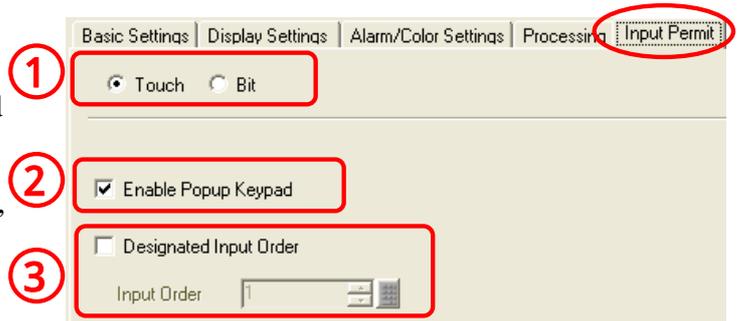
(6) Input Permit

The method of triggering the Data Display to Input State is configured.

[Touch]: Touch the Data Display directly, and it will change to Input State.

[Bit]: When the Trigger Bit Address turns ON, the Data Display will change to Input State.

Select [Touch] here.

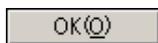


Set enabling or disabling of the Popup Keypad Display (automatic display or non-display of the keypad for input) during Input State.

Check [Enable Popup Keypad] here.

For entering values into multiple Data Displays in succession, set the sequence number each will be enabled for input.

Click [OK] to complete the settings.





教えて!

Customizing numeric value input

(1) Restricting the input range

Alarm/Color Settings: Set the alarm range. When data is outside the range, the data is displayed with these configured colors.

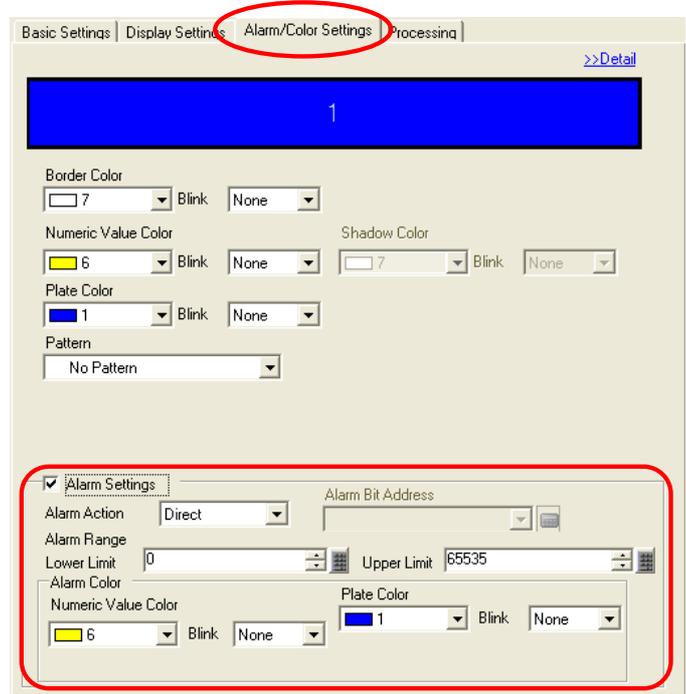
With Input Permit checked, input of the data outside the alarm range is not accepted.

Alarm Action: Select Direct, Address, or Change Color for Alarm Action.

[Direct]: The upper and the lower limits of Alarm range are fixed. In the Alarm Range fields, the upper/lower limits can be set directly.

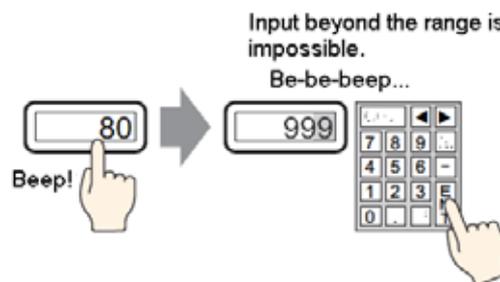
[Address]: The upper/lower limits of Alarm are dynamic. In Alarm Range fields, the addresses where the upper/lower limit values will be held are specified.

[Change Color]: When the alarm bit address turns ON, the data is displayed in the configured Alarm colors.



Alarm Color: Set the colors desired for the Alarm state.

Ex.) If you wish to set the allowable data range for input to [0 to 100],

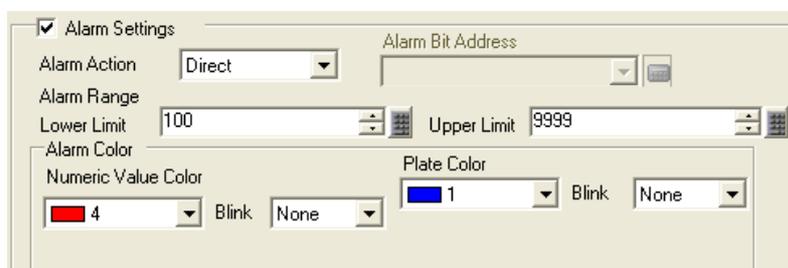


Check [Alarm Settings].

Set [Direct] for [Alarm Action].

In [Alarm Range], set [0] for [Lower Limit] and [100] for [Upper Limit].

Set the [Numeric Value Color] of [Alarm Color] as you like.



(2) Entering “Post Calculation” Values

Processing:Executes the operation on the data stored in the [Monitor Word Address] and displays the result.

Input values are treated as the data after the operation. (ie the reverse operation is performed, and stored in the [Monitor Word Address]).

Operation Data Specification:Select the method of obtaining data to operate on [Constant] or [Address].

[Constant]:Set a fixed value as the operation data.

[Address]:Set the address where the data to operate on is stored.

Indirect Area Specification:When [Address] is set for [Operation Data Specification], select the method of specifying an address from [Individual Settings] or [Area After Display Address].

[Individual Settings]:Specifies the word address of the operation data individually.

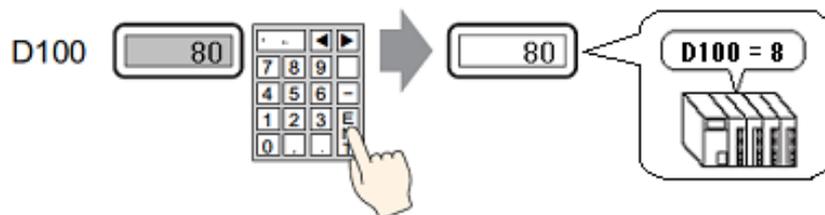
[Area After Display Address]:Stores the operation data in the next address after the [Monitor Word Address].

Operation Data:When [Constant] is set for [Operation Data Specification], input the operation data directly. When [Address] is set, specify the address where the operation data is stored.

Data Position:Set the Left side or the Right side for the position of the operation data.

Operator:Select an operator from [Addition (+)], [Subtraction (-)], [Mult. (*)], [Division (/)], [Logical AND (&)], [Logical OR (|)], or [Exclusive OR (^)].

Ex.) To make the data input on the screen 1/10(one tenth) and store them to the connected device.

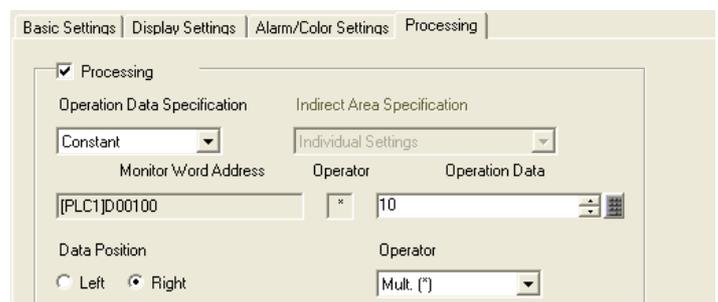
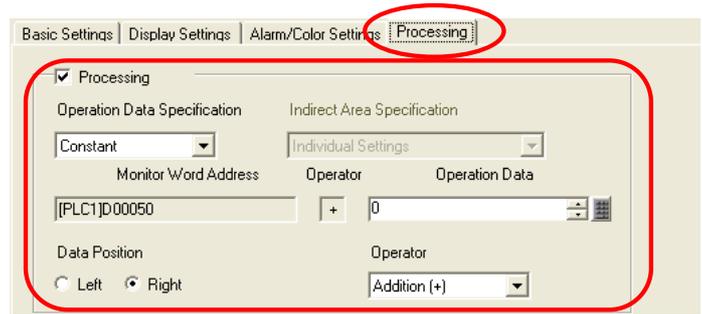


Check [Processing].

Set [Constant] for [Operation Data Specification].

Set [Mult.(*)] for [Operator].

Set [10] for [Operation Data].



6.3

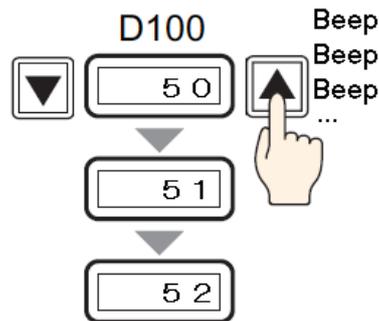
Increase & Decrease of Numeric Values



How to increase/decrease numeric values

For increase and decrease of data like line speed, a [Switch Lamp:Word Switch] is used. When the data has a certain degree of standard value like speed, increasing or decreasing the data from the standard value is easier than changing the value via the ten-key pad and fewer mistakes are made.

Setting and placing the [Switch:Word Switch] on the screen enables you to increase/decrease the data of the connected device easily.



• Placement/Setting Procedure

From the menu bar's [Part], select [Switch Lamp]->[Word Switch] or click the [Switch] icon. ()



Drag the pointer for the range of placement.



Double-click the switch and make settings.



Increasing/Decreasing speed data

The method to draw a word switch to adjust each line's transport speed is described.

- [Setup Flow]
- 1 . Open the base screen [6].
 - 2 . Select/Place/Configure [Data Display:Numeric Display].
 - 3 . Select/Place/Configure [Switch Lamp:Word Switch].

Open the base screen [6].

[For Exercise]



[Completed]

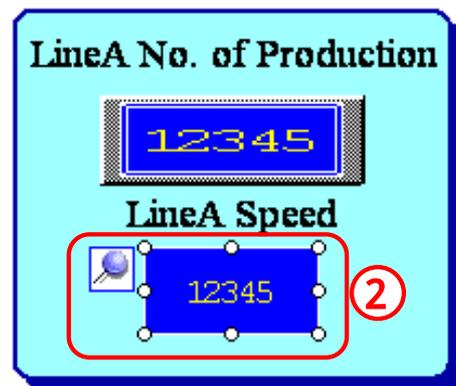


(1) Selecting/Placing Data Display

Click the [Data Display] icon from the Tool Bar.



Drag the pointer for the range of placement.

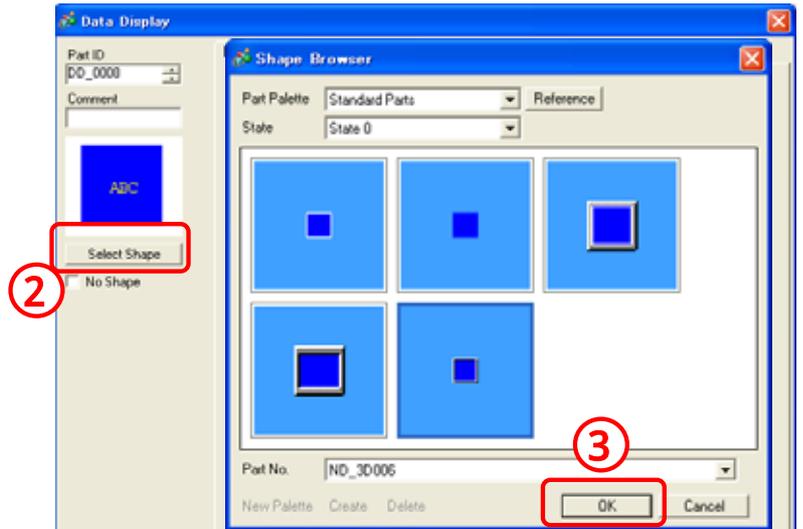


(2) Selecting a picture

Double-click the placed [Data Display].

Click [Select Shape] and select a picture for the display.

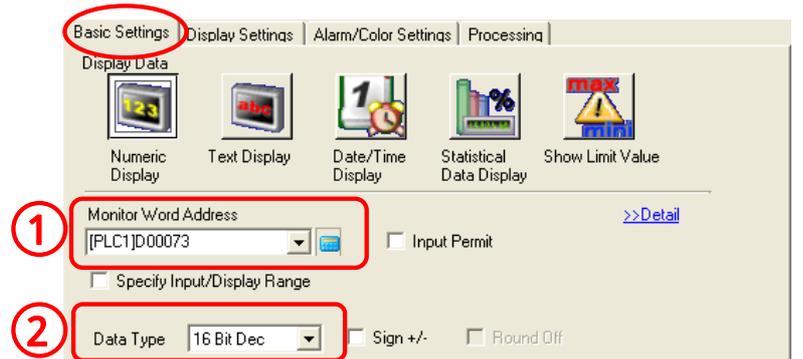
After selecting the picture, click [OK].



(3) Basic Settings

Set [D73] for [Monitor Word Address].

Set [16 Bit Dec] for [Data Type].

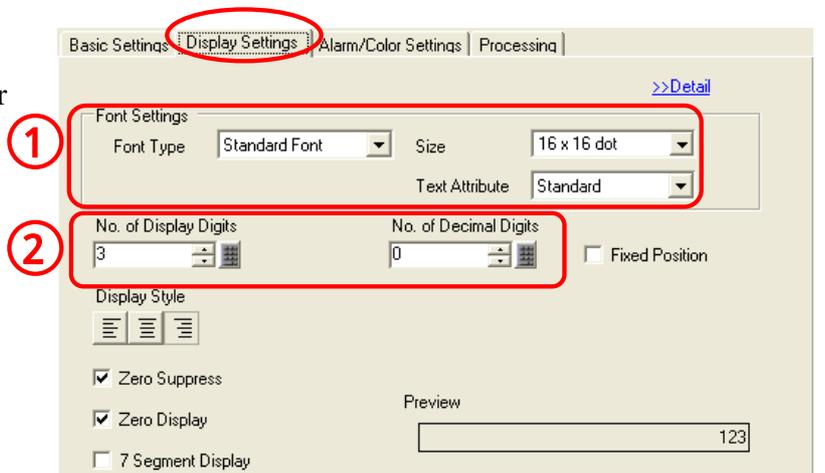


(4) Display Settings

Set [Standard Font] for [Font Type], [16x16 dot] for [Size] and [Standard] for [Text Attribute].

Set [3] for [No. of Display Digits] and [0] for [No. of Decimal Digits].

Click [OK] to complete the settings.

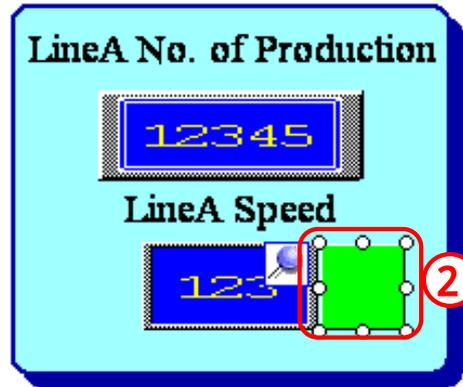


(5) Selecting/Placing the Switch

Click the [Switch] icon from the Tool Bar.



Drag the pointer for the range of placement.

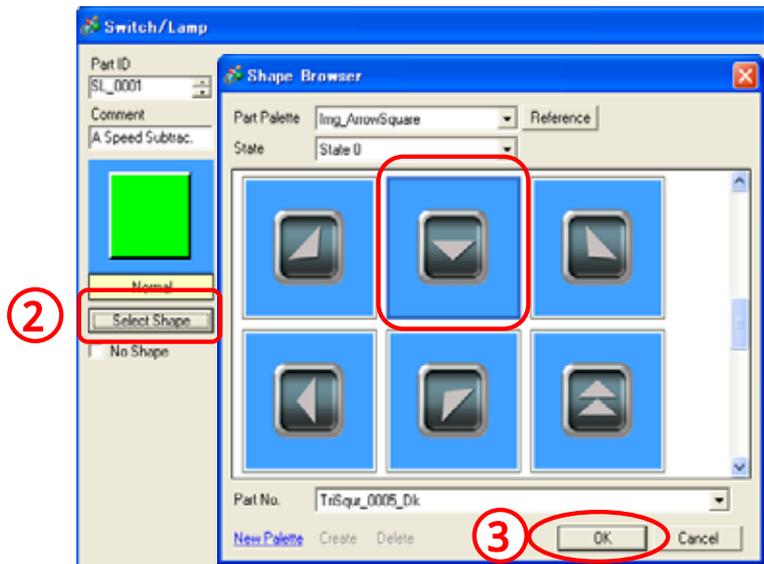


(6) Selecting a picture

Double-click the placed [Switch].

Click [Select Shape] and select a picture for the switch.

After selecting the picture, click [OK].



(7) Setting the switch features

Select [Word Switch].

Set the address where the data is actually input. Here, set [D73].

Set the Switch Action.

Data Write:Writes the value set in [Constant].

Add Data/Subtract Data: Reads the value from

[Addition Base/Subtraction Base Word Address], adds/subtracts the constant value to it, and writes the result to [Word Address].

Digit Addition/Digit Subtraction: Performs Addition/Subtraction on a specified digit position.

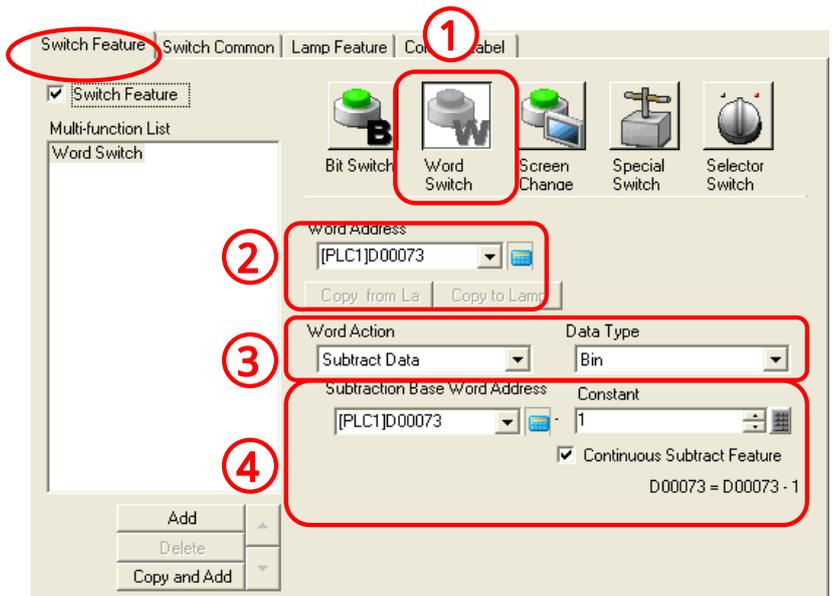
Operation: Writes the result of the selected operation acting on the constant and the data stored in the [Operation Base Word Address] to the designated word address.

Here, set [Subtract Data] for [Word Action], and [Bin] for [Data Type].

Set [D73] to [Addition Base Word Address], and [1] for [Constant]. Check [Continuous Subtract Feature].

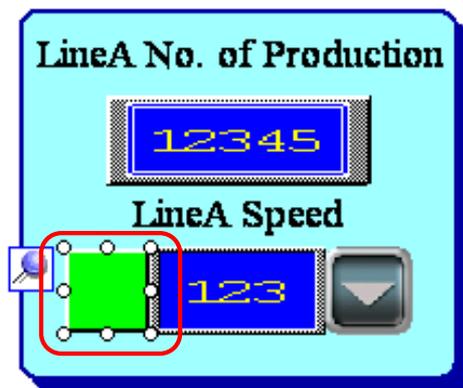
*With [Continuous Subtract Feature] checked, if you keep pushing the switch for a long time, it will perform successive subtract operations until you release.

Click [OK] to complete the settings.



(8) Placing the switch for Addition

Click the [Switch] icon from the Tool Bar and place it on the screen.

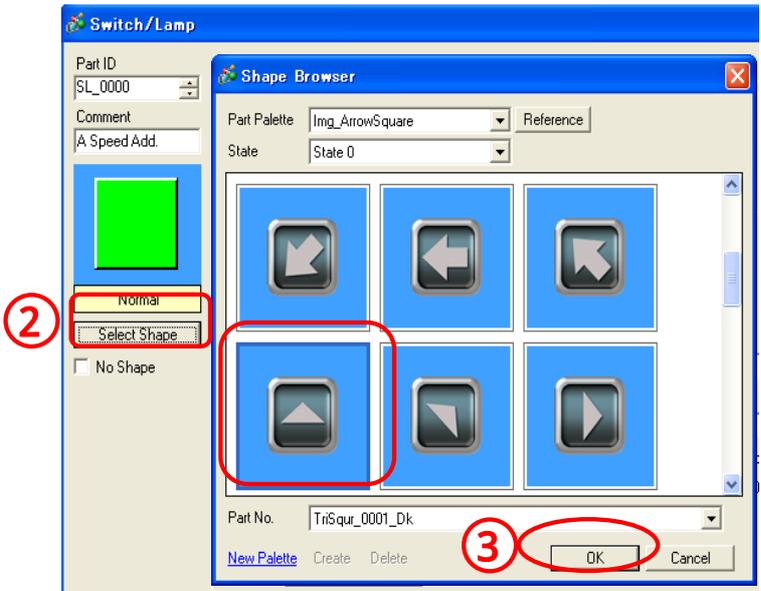


(9) Setting the picture and the switch features

Double-click the placed [Switch].

Click [Select Shape] and select a picture for the switch.

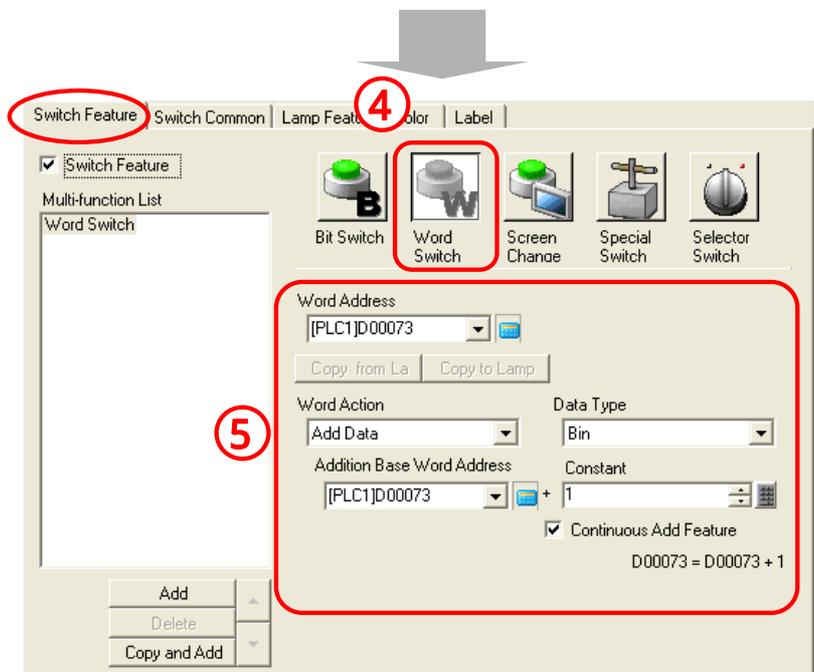
After selecting the picture, click [OK].



Select [Word Switch].

Make the following settings;
 [Word Address] [D73]
 [Word Action] [Add Data]
 [Data Type] [Bin]
 [Addition Base Word Address] [D73]
 [Constant] [1]
 [Continuous Add Feature] Checked

Click [OK] to complete the settings.





6.4

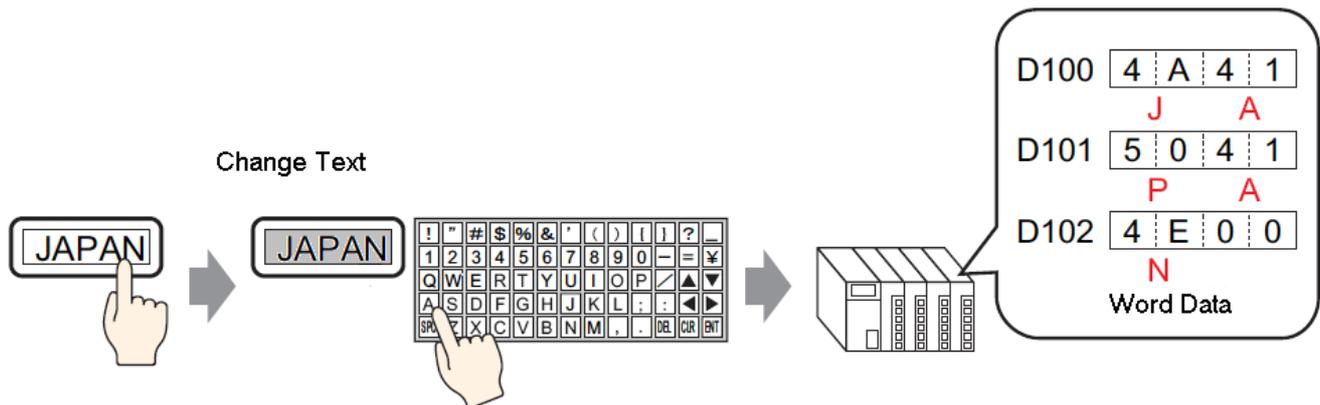
Text Data Input



How to input Text Data

In order to display the keyboard on the unit and input text data (ASCII code, Shift JIS code), the [Data Display:Text Display] feature is used.

Setting and placing the [Data Display: Text Display] on a screen easily enables you to input text data to registers on a connected device.



• Placement/Setting Procedure

From the menu bar's [Part], select [Data Display]->[Text Display] or click the [Data Display] icon. ()



Drag the pointer for the range of placement.



Double-click the data display and make settings.



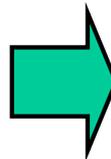
Let's enter the product name.

The method to draw a data display for inputting the product name is described.

- [Setup Flow]
- 1 . Open the base screen [6].
 - 2 . Select/Place/Configure [Data Display:Text Display].

Open the base screen [6].

[For Exercise]



[Completed]

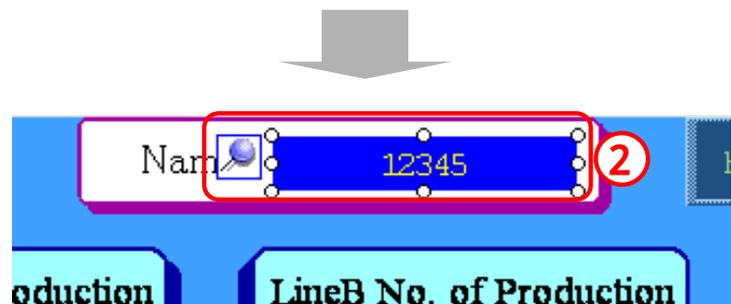


(1) Selecting/Placing the Data Display

Click the [Data Display] icon from the Tool Bar.



Drag the pointer for the range of placement.

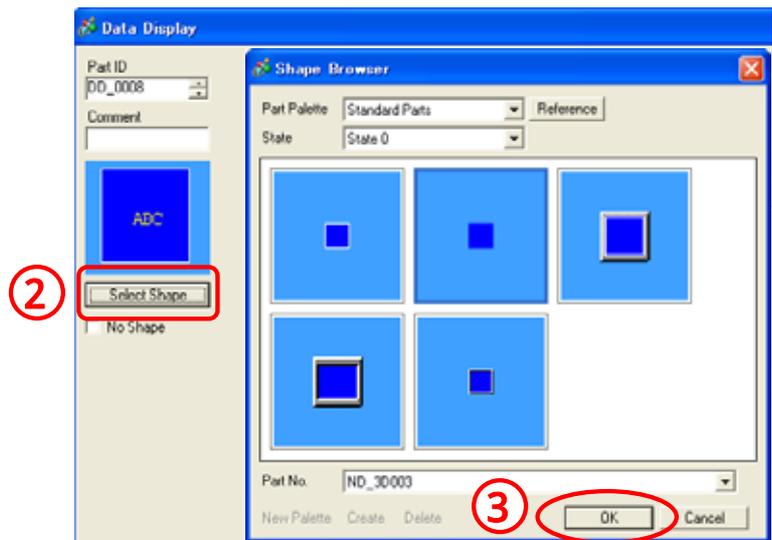


(2) Selecting a picture

Double-click the placed [Data Display].

Click [Select Shape] and select a picture for the display.

After selecting the picture, click [OK].



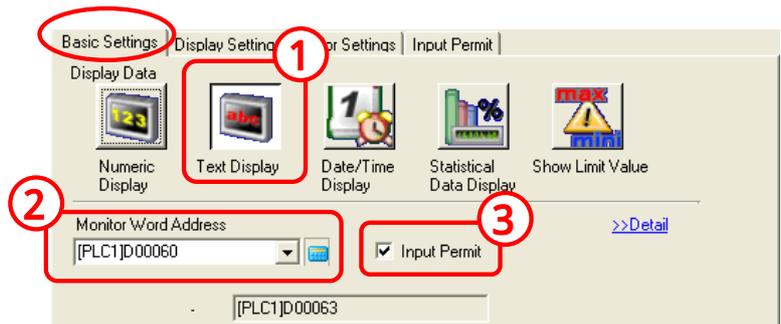
(3) Basic Settings

Select [Text Display].

Set the word address where the text data is input for [Monitor Word Address].

Here, set [D60].

Check [Input Permit].



(4) Display Settings

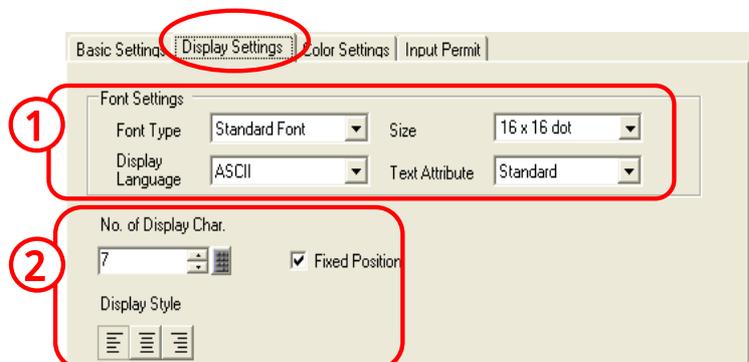
Set the font of the text to be displayed for [Font Settings].

Here, set [Standard Font] for [Font Type], [16x16 dot] for [Size], [ASCII] for [Display Language], and [Standard] for [Text Attribute].

Set [7] for [No. of Display Char.].

Check [Fixed Position] and set [To Left] for [Display Style].

*With [Fixed Position] checked, it's possible to fix the display position in the center.



(5) Color Settings

Set [Black:0] for [Text Color],
[White:7] for [Plate Color],
[None] for [Blink], and [No
Pattern] for [Pattern].

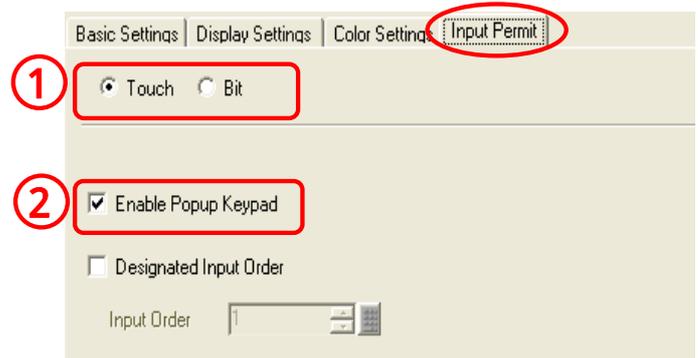
**(6) Input Permit**

Set the method of triggering the Data Display
to Input State.

[Touch]: Touch the data display directly, and
it will change to Input State.

[Bit]: When the Trigger Bit Address turns
ON, the Data Display will change to Input
State.

Here, select [Touch].



Set automatic display/non-display of the Keypad for input during Input State. Here, check [Enable Popup Keypad].

Click [OK] to complete the settings.

