## Chapter 6 Input Settings Screen

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## 6.1 Input Settings Screen

Explains the input settings screen.



### What is a Input Settings Screen?

### •Why is it used?

The data is input in the input settings screen as numerical values or character strings.

Compared to an external ten-key or a thumb rotary switch, it is much easier to input values using the keyboard on the touch-panel and also to set limits on the input range. Moreover, it is possible to input data not only from the screen keyboard but also from the bar code reader connected to the graphic panel.

### •Note (When creating the screen)

The data input using the touch panel is directly stored in the PLC device address, Therefore, if the PLC program refers to that data directly, it might lead to problems in the device operations. Safety features like limiting changes in data when the device is in operation must be taken into consideration when programming the PLC.



can be directly input using the keyboard.

## 6.2 Setting Production Quantity

Explains the method for writing the data to the PLC device address using the ten-key display.

### 解說

### How to set the production quantity

• In input settings, the data that was input using the touch pad is displayed while the data display is in "waiting for input" status (the display color is reversed and the cursor is displayed) but it is not possible to write now. The data is written to the specified PLC address after the [ENT] key is touched.

Image for setting of production quantity

If the display data part is touched, the keyboard is displayed and the status becomes 'waiting for input'.

Select the data to be input on the keyboard, check it, and then press the [ENT] key.







**Start :** Set if the start input is [Bit].

**Pop-up:** It is possible to set whether to use the pop-up keyboard or not when the start input is [Touch].

**Specify Arrangement Position:** The position of the displayed keyboard can be specified if the pop-up keyboard is being used and this is checked. The arrangement position is set automatically if the check box is cleared.

**Specify Entering Order:** If [Entering Order] is set, the cursor moves according to that entering order and input is possible. Specify the group number to move within the same group.

#### (3) Setting display format (Absolute) ttings (KD 001) D # Shape/Color Absolute: 16-bit and 32-bit data can be handled. 副 Use for direct input isplay & W ie Data Fo 10.02 32.84 · Deci Decin 0000 Hex Hee **Relative:** The bit length of acquired data can be 800 BCD Bin Filoat Octai set in range of 1-16 bits. Use to convert and input data Bin Char. String: Character string data can be handled. of Display Digits Character Size 8×16 1 Decmal Places 곳 Writes in ASCII or Shift-JIS format. 4 Use to input character string data. Cancel Place Helpi

Indirect: Select to enable indirect setting of display and write address.

The display and write address in the keypad input display is [Base Address] plus [Data Stored in Word Address]

Address: Any base address can be set.

**Device Type and Address:** '+1' is added to the word address set in [General Settings] and is allocated to the base address.

The data format for display and writing is set.

Set [Number of Digits], [Decimal Place] and [Character Size] for the number indicated by the keypad input display .



(4) Setting display format (Relative)	$(1) \qquad (2)$
The valid bit length of data stored in the word address can be set	Keypad Input I (splay Settings (KD_001)       Image: Settings (KD_001)         General Settings (Display Formit ) Shape/Color Liters Settings (Extend)       Image: Settings (Extend)         C Absolate       Image: Settings (Color Liters Settings (Extend))         Image: Settings (Figure Color Liters Settings (Extend))       Image: Settings (Extend)         Image: Settings (Figure Color Liters Settings (Extend))       Image: Setting (Extend)         Image: Settings (Figure Color Liters Settings (Extend))       Image: Setting (Extend))         Image: Setting (Extend)       Image: Setting (Extend))         Image: Setting (Extend)       Image: Setting (Extend))         Image: Setting (Extend)       Image: Setting (Extend))
Rounding up of decimals when changing data can be set. It is dropped when not selected.	Input Code Format     Imput Code Format       Imput Code Format
The address that stores the data to be displayed can be set indirectly.	No. of Display Digit: 2 the Oheracter Size Decreal Places 1 the Decreal Places 1 the Decrea Places
Refer to 6-8 for details of [Indirect]	Place Cancel Helpi

The data format for displaying and writing is set

**Input Range:** The data range to be stored in the word address is set.

Display Range: The range of data for display conversion is set.

The individual settings for [Number of Display Digits ], [Decimal Place] and [Character Size] for the displayed numerical value is set.

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### (5) Setting display format (Character string)

The address that stores the data to be displayed can be set indirectly.

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Refer to 6-8 for details of [Indirect]

The [Number of Display Character] and [Character Size] of the characters displayed in the keypad input display are set. Two single-byte characters or one double-byte character can be stored in one word.

The continuous address can be made proprietary automatically by setting the display character count.

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C Brook for Edden	File Cito	

(6) Setting shape/ color

The display image currently selected is displayed. Click [Browser] to change the display image.

Color specifications are selected from [Direct] or [Indirect].

**Direct:** Directly sets the color

**Indirect:** The color settings stores the color code in the address displayed directly under [Character Color] and [Palette Color]. Indirect can be set only when the display format is [Absolute].

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	Place	Cancel 1	Aga 🔰	

Indirect area can be specified only when the display format is [Indirect] of [Absolute].

\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ .

**Area After Display Address:** The color code is set in the address where the data displayed in the keypad input display is stored +1.

**Area After Base Address :** If the [Address] is stored in [Indirect] display format, the color code is set in the [Word Address] of information + 1. If it is set in [Device Type and Address] in [Indirect] display type, the color code is set in the [Word Address] of information + 2.

The indicator picture color is set directly. Only the [Border Color] needs to be set in case of [Indirect]

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### (7) Alarm settings

Select [Alarm Display] to change the colors for [Character Color] and [Palette Color] depending on the alarm operations. There are three types of [Alarm Display] operations, namely, [Direct], [Indirect] and [Color Change].

**Direct:** The alarm range is specified directly and it is fixed.

**Indirect:** The alarm value is set in the address input in alarm range and it can be changed.

**Color Change:** The color of the specified [ON] bit address is changed and displayed.



The alarm value range is set. If the [Alarm Type] is [Direct], the maximum and minimum values of the alarm range are set. If it is [Indirect], the address for setting the maximum and minimum values is displayed.

It is set only if the [Alarm Type] is [Color Change]. The color is changed and displayed depending on whether the bit address set here is ON or OFF.

If [Indirect] is specified in the address that stores the data displayed in [Display Type] and the [Alarm Type] is [Indirect], the maximum and minimum values of the [Alarm Range] can be selected from the [Area After Display Address] and [Area After Base Address]

**Area After Display Address:** The maximum and minimum values of the alarm range are set in the address after the address that stores the data specified in [Indirect].

Example: If [D100] is set in the [Word Address] of [General settings], the [Address] and [Base Address] of [Indirect] of [Absolute] display format is [D10], the [Data Type] is 16-bit/Dec], and the [Alarm Type] of the {Alarm Settings] is set as [Area After Display Address] in [Indirect]

It is assumed that [25] is stored in [D100].

'In this case, the address where the displayed data is stored becomes [D35 (D10+25)] and the alarm range becomes after the [display address] [D36: Maximum value] and [D37: Minimum Value].



Area After Base Address : The maximum and minimum values of the alarm range is set in the address after the address specified in the [Word Address] of [General settings].

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### (8) Extend Settings

Auto Clear OFF: The previous data is not cleared when new data is entered but is entered as a continuation.

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Auto Clear ON: The previous data is cleared and new data is entered.

Auto Clear and Input Check: The previous data is cleared when the bar code is input and whether the input data digits match with the [Display Digits] is checked.

The data cannot be written if it does not match.

Only auto clear can be performed in ten-key input.

\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

Input Style   Puto Clear OFF   Auto Clear ON   Auto Clear & Input Check	(1
Display Style C Shift Right IF Zero Suppress F Shif Left IF Zero Display T 7 Segment Display	(2
Interlack	3
Insue Completion     To Assume     To A	(4

**Shift Right/ Shift Left:** Whether to shift the displayed numerical value and characters to the right or left is specified.

Zero Suppress: Whether to display the unnecessary zeroes in the display digits that are set is specified.

Example: If the display digits are [4].

·Check ON: 45

·Check OFF: 0045

Zero Display: If selected, [0] is displayed if the data is zero.

7 Segment Display: If selected, the numerical values are displayed in 7 segments.

**Interlock:** The switch operations become valid only when the bit address set in the interlock address is [Touch Available Condition] or similar.

[Touch Available Condition: Bit ON]: The switch operations become valid only when the interlock address is ON.

**[Touch Available Condition: Bit OFF]**: The switch operations become valid only when the interlock address is OFF.

The bit address set here turns ON when the settings input is completed. It does not turn OFF automatically, therefore, turn it OFF using the device controls.



### (4) How to set the shape/ color

Set [Direct] in [Color Type], and set the [Border Color/ Character Color/ Plate Color], as desired.

Keypad Input Dipu General Settings   Di	Ary Settings [KD_001] pler Format Shaper/Color   Are Settings   Extend] Color Type © Deed © Deed © Indeed Booder Color Tend Color Plate Colo
	OK Carcel Bris

(5) How to set the alarm

Select alarm display.

Set [Direct] in [Alarm Type], [1000] in [Minimum Value] of [Alarm Type], and [50,000] in [Maximum Value]. Set the [Alarm Color] as desired.



### (6) How to set the extend settings

Set [Auto Clear ON] as [Input Style] and set the [Display Style] as desired. Check that [Interlock] and [Input Completion] have not been selected.



### (7) Lets us place the keypad input display

Click [Place] and place the keypad input display .



### (8) Let us operate the keypad input display

Touch the keypad input display to show the ten-key for input. Input the settings value using the ten-key, touch the [ENT] key to store the data. The ten-key will then be cleared. The data will not be stored even if the [ENT] key is touched if the value is not within the alarm range (1000~50,000).



# 6.3 Setting Speed

Explains the method to add and subtract the data stored in PLC.



### Method to adjust the value (numeric display + word switch)

• In case of certain standard values like speed, it is easier to avoid errors by adjusting from the standard value as compared to changing the value using the ten-key. Use the adjuster switch to add or subtract the data in the specified word address.

The word switch has already been prepared with appropriate pictures for add/ subtract.

Using these pictures will simplify placing the switches for add/subtract.

Moreover, it is also possible to avoid malfunctioning because of errors like touching the wrong screen by using the interlock function.

### Implementation method

It is simpler to combine the [numeric display] and the [Word Switch] when using the switch touching function to add/subtract data.

The offered screen has applications for adding or subtracting

The switch functions decides whether to add or subtract based on the constant. Positive value means add and negative value means subtract.

The digits cannot be added or subtracted using add or subtract digit.

Using these functions, the digital switches or the thumb rotary switch can be easily created.











### (3) How to set the display format

Set [16-bit/Dec] in [Data Display Format],
[3] in [No. of Display Digits],
[0] in [Decimal Places], and
[2x1(f)] in [Character Size].

Set the [Display Style] as desired



### (4) How to place the numeric display

Click [Place] and place the numeric display .



### (5) How to select the word switch

Click the [Word Switch] icon in the parts tool bar

### (6) How to set the word switch for adding

Click [Browser] and select the desired picture

Set [73] in [Word Address], [Add/Subtract] in [Function] and [1] in [Constant].



### (7) How to place the word switch for adding

Click [Place] and place the word switch for adding in the left side of the numeric display placed earlier.



### (8) How to set the word switch for subtracting

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Click [Browser] and select the desired picture

Set [73] in [Word Address], [Add/Subtract] in [Function] and [-1] in [Constant].

Click [Place] and place the word switch for subtracting in the right side of the numeric display placed earlier.



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Note	
If you are using t value will continu Note that the disp sound.	he alarm display in the numeric display (P2-11), the adjustment of the ue in the add/subtract word switch even if the range has been crossed. In the alarm settings but there is no alarm

# 6.4

### Input Product Name

Explains the method to input the character data using the keyboard on the GP screen.



### Various methods to input product name

• It is easiest to use the keypad input display that can input character data (ASCII code and Shift-JIS code) to input the product name from the screen.

Picture for in name	put o	f pro	oduc	t										
5	×			s	4	E	1					2		
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	A SPC	s z		F	G	н	J	т к м	L	-	- -		<b>N</b>	

Touch the character string data display part to display the keyboard in "waiting for input" status.

Select the data to be input on the keyboard, check it, and then touch the [ENT] key.





	Reypool Input Display Settings (KD_00
Select [Char String]	General Settings Display Fermer   Shapes Franz   Alama Lettings   Extend   Absolute
Set [7] in [No. of Display Characters] and [2x1(f)] in [Character Size].	

Set the [Text Color] and [Plate Color] as desired



### (5) How to place the keypad input display

Click [Place] and place the settings indicator to the right side of the product name



### (6) Let us check the operations

The keypad input display reverses and becomes wait status when touched.

The keyboard for input of character strings is displayed. Enter the characters using the keyboard and touch [ENT] to store the character data. The keyboard will then be cleared.







