

Programmable Terminal NA-series

Practices Guide Page Editing – Custom Keypads

NA5-15□101□

NA5-12□101□

NA5-9□001□

NA5-7□001□

Practices

Guide



■ Introduction

This guide provides reference information on editing pages of the NA. It does not provide safety information.

Be sure to obtain the NA-series Programmable Terminal User's Manuals, read and understand the safety points and other information required for use, and test sufficiently before actually using the equipment.

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Related Manuals

The following manuals are related to this manual.

Cat.No.	Model	Manual Name
W504	SYSMAC-SE2	Sysmac Studio Version 1 Operation Manual
V117	NA5-15Waaaa NA5-12Waaaa NA5-9Waaaa NA5-7Waaaa	NA-series Programmable Terminal Hardware User's Manual
V118	NA5-15Waaaa NA5-12Waaaa NA5-9Waaaa NA5-7Waaaa	NA-series Programmable Terminal Software User's Manual
V119	NA5-15W0000 NA5-12W0000 NA5-9W0000 NA5-7W0000	NA-series Programmable Terminal Device Connection User's Manual
V120	NA5-15Wadaa NA5-12Wadaa NA5-9Wadaa NA5-7Wadaa	NA-series Programmable Terminal Startup Guide

1 Custom Keypads

1-1 Custom Keypads Basic Settings

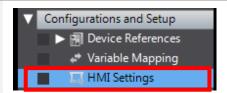
The following two features are now available for editing the keypads.

- · Modification of the size of the standard keypads
- · Creation of user-defined keypads facilitated by the use of the Custom Keypads function

1-1-1 Changing the Size of the Standard Keypads

You can change the size of the standard keypads that are displayed when you enter values in the Data Edit objects.

 In the Multiview Explorer, double-click [Configurations and Setup]-[HMI Settings].



Specify the keypad size in [HMI Settings]-[Device
 Settings]-[Software Keypads/USB Keyboard]-[System Keypad size].
 The settable range is between 75 and 125 %.

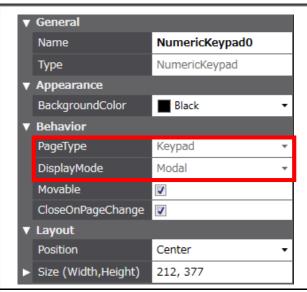


1-1-2 Creating Custom Keypads

Following is the procedure to create the user's original keypads. You can use one of the original keypads instead of the system keypad when entering numerical values.

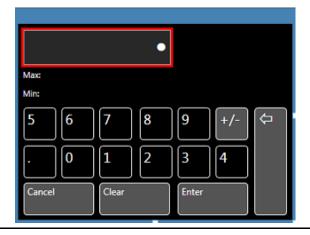
In the Multiview Explorer, Recipes right-click [HMI]-[Custom Custom Keypads Add Custom Keypad Group Keypads] and click [Add]-[Custom Keypad Group]. Global Events 2. Right-click [Group0] added in ▼ Im Custom Keypads Step 1, and click [Add]-[(the Group0 keypad to create)]. Here, select Boolean Keypad ▶ 🔂 Data [Numeric Keypad]. Numeric Keypad 5 Global Events Rename Hexadecimal Keypad 🖥 Global Subrot Delete Qwerty Keypad Imported IAG DateTime Keypad Сору Mm Scale Transfor TimeSpan Keypad 3. Double-click [NumericKeypad0] Custom Keypads added in Step 2. ▼ IIII Group0 III NumericKeypad0 4. The screen based on a standard NumericKeypad0 x keypad appears. You can edit this keypad to create a custom keypad. Max Min: \Leftrightarrow 5 6 3 Clear Cancel Enter

- There are three differences in the Properties of the custom keypad screens from those of the normal popup screens as described below.
 - 1. PageType: fixed to "Keypad". This is unique to custom keypads.
 - 2. DisplayMode: fixed to "Modal". While a custom keypad is displayed, you cannot operate other objects on the main screen.
 - 3. AutoNavigateKeyPads: this item does not exist. Thus, you cannot activate or use this function to continuously enter data within a custom keypad.

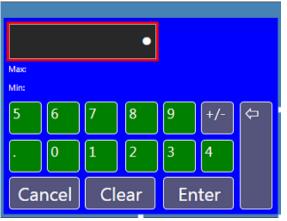


- 6. Edit [NumericKeypad0] created in Step 2 as below.
 - 1. Change the layout (the positions of keys and other parts).
 - 2. Change the appearance (color and font).
 - 3. Add an action that writes a value to the specific variable upon entering a value.
- Change the layout as described below.

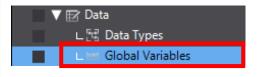
Change the keypad size by editing [Layout]-[Size (Width,Height)] in the Properties. Change also the position and size of each part arbitrarily from the Properties tab.



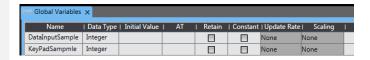
8. Change the appearance of the parts. Modify the background color of the keypad from [BackgroundColor] under [Appearance] in the Properties. Modify also the background colors and font sizes of the keys and other parts from the Properties tab.



 Add an action to write a value to the specific variable upon entering a value. In the Multiview Explorer, double-click [HMI]-[Data]-[Global Variables].



 Create two arbitrary integer-type variables. Here, create the following two variables: DataInputSample KeyPadSample

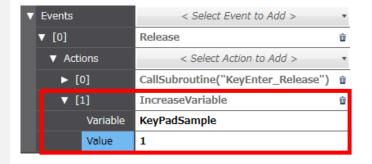


11. Execute the "Ctrl + Shift + 5" keyboard shortcut to display the [Events and Actions] tab page of the [Enter] key, and add the following settings to [Actions].

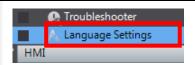
Actions: IncreaseVariable Variable: KeyPadSample

Value: 1

With the above settings, an action is executed of adding "1" to the KeyPadSample variable upon releasing the [Enter] key.



12. After completing editing of the keypad, perform settings for using the keypad within the project. In the Multiview Explorer, double-click [Configurations and Setup]-[Language Settings].



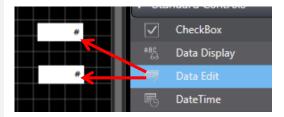
13. Change "Standard" to "Group0" in the [Software Keypads] cell under [Default language]. If the setting remains as "Standard", a standard keypad will be used.



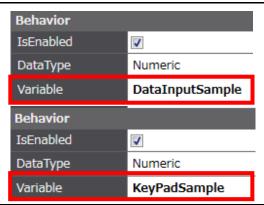
1-1-3 Checking Operations of the Custom Keypad

Check the operations of the custom keypad created in the previous subsection.

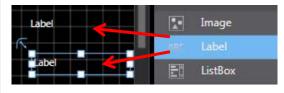
 Create two Data Edit objects for checking the operations. From [Toolbox], select [Standard Controls]-[Data Edit] and drag and drop it to the page. Specify arbitrarily the font type and size of each object.



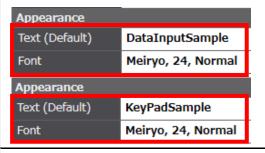
 In [Variable] in the Properties tab of the two Data Edit objects created in Step 1, set respectively the variables registered in Step 10 of "1-1-2 Creating Custom Keypads".



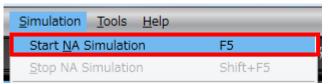
 Create two Label objects that indicate which variables are assigned to the Data Edit objects created in Step 1.
 From [Toolbox], select [Standard Controls]-[Label] and drag and drop it to the page.



4. In [Text (Default)] in the Properties tab of the Label objects created in Step 3, enter respectively the names of the assigned variables registered in Step 10 of "1-1-2 Creating Custom Keypads". Arbitrarily specify the font.



Use the simulation function to check the operations. From the menu bar, select [Simulation]-[Start NA Simulation].



6. When the Simulator starts up, click the Data Edit object next to DataInputSample [DataInputSample]. KeyPadSample 7. The created keypad appears. Enter an arbitrary value. 0 Clear Enter Cancel 8. When the value is entered, "1" is now added to the value of [KeyPadSample] according to the DataInputSample 50 action specified in Step 11 of "1-1-2 Creating Custom Keypads". KeyPadSample

1-1-4 Questions and Answers Related to Custom Keypads

Questions	Answers
I would like to use different	As described in Step 13 of "1-1-2 Creating Custom Keypads", you
keypads (standard and custom)	cannot use the standard and custom keypads at the same time
depending on the object. Is that	within a single language setting.
possible?	
Is it possible to register multiple	It is possible to create multiple different custom keypads within a
custom keypads and to use them	single group (e.g. a numeric keypad and a hexadecimal keypad). It
differently for each object?	is not possible, however, to create multiple keypads of the same
	type within a group.
When building the project after	This does not affect the operations.
creating a custom keypad, the	If you assign a variable to a Data Edit object on a custom keypad,
"The variable is not specified"	an error occurs during build. Therefore, do not set variables in an
warning appears.	attempt to delete the warning.
Whereas the custom keypad is	The Software Keypads setting of [Other languages] may be set to
displayed in the default language,	"Standard". You must set the keypad to be used for each language.
the standard keypad is displayed	Default language Project Languages System Languages Software Keypads Tra
after switching the language.	English (United States) English (United States) Group0
Why is that?	
	Other languages Project Languages System Languages Software Keypads Tra
	Japanese (Japan) Japanese (Japan) Group1

Revision History

Revision code	Date	Revised content
01	December 2015	Original production

Note: Do not use this document to operate the Unit.

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