

31.7 Mapping I/O to the FLEX NETWORK High-Speed Counter Unit

31.7.1 Display for the FLEX NETWORK

When connecting a FLEX NETWORK unit to the GP, select the display model which supports it.

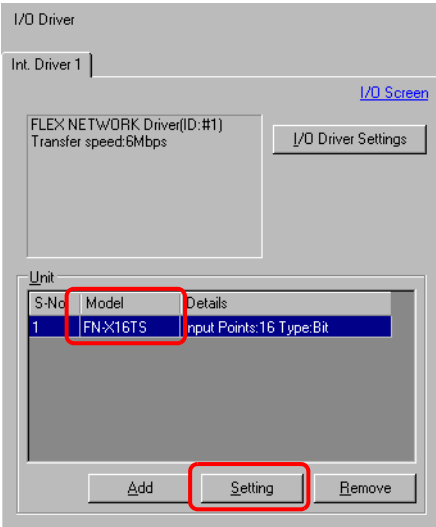
You can connect multiple I/O units.

■ FLEXNETWORK High-Speed Counter Unit Models and Number of Occupied Stations

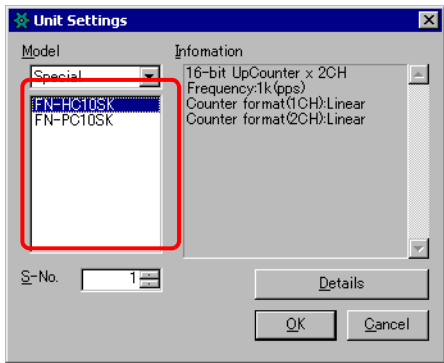
Type	Type	Number of Points	Number of Occupied Stations
High Speed Counter	FN-HC10SK41	-	4 stations

■ Setup Procedure

- 1 In the I/O Driver window, select the I/O unit to be configured, and click [Setting].

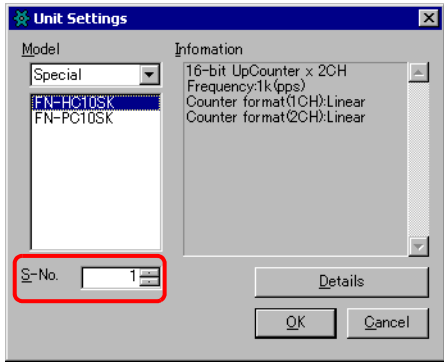


2 The [Unit Settings] dialog box appears. To change the type, in the [Model] area, select the model of I/O unit. (For example, [Special] and "FN-HC10SK").



- NOTE**
- The type of the I/O unit can be selected in the top left menu.
 - On the right, the detailed specifications for the selected I/O unit are displayed.

3 Specify the same number as the S-Number specified on the High Speed Counter unit.



- NOTE**
- You can specify the S-Number from 1 to 63. However, you cannot duplicate the S-Number in the same FLEX NETWORK.
☞ “ ■ FLEXNETWORK High-Speed Counter Unit Models and Number of Occupied Stations” (page 31-37)

4 To change the details of the I/O unit, click [Details].

5 The [Details] dialog box appears. Change the settings and click [OK].

- NOTE**
- For the detail settings of the unit, refer to the following section.
☞ “31.7.3 Settings Guide for the FLEX NETWORK High-Speed Counter ■ Unit Detail Settings” (page 31-42)

6 In the [Unit Settings] dialog box, click [OK] to apply the changed settings.

S-No	Model	Details
1	FN-HC10SK	16-bit UpCounter x 2CHFreque

- 7 To add an I/O unit, click [Add]. The [Unit Settings] dialog box appears. Specify the settings in the same way as in steps 2 to 6.

NOTE

- To add other types, refer to the descriptions of respective type.
 - ☞ “31.4 Mapping I/O to the FLEX NETWORK DIO Unit” (page 31-17)
 - ☞ “31.5 Mapping I/O to the FLEX NETWORK Analog Unit” (page 31-24)
 - ☞ “31.6 Mapping I/O to the FLEX NETWORK Positioning Unit” (page 31-31)
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- 8 After completing the device settings for the FLEX NETWORK, map the addresses to the I/O terminals.

NOTE

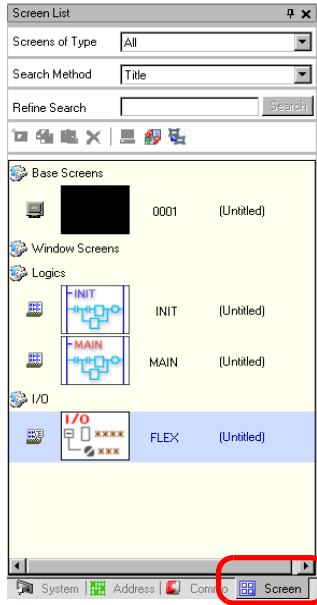
- ☞ “31.7.2 I/O Terminals in the FLEX NETWORK High-Speed Counter Unit” (page 31-40)
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31.7.2 I/O Terminals in the FLEX NETWORK High-Speed Counter Unit

Displays the I/O and maps addresses to the I/O terminals in the FLEX NETWORK high-speed counter unit.

■ Displaying the I/O

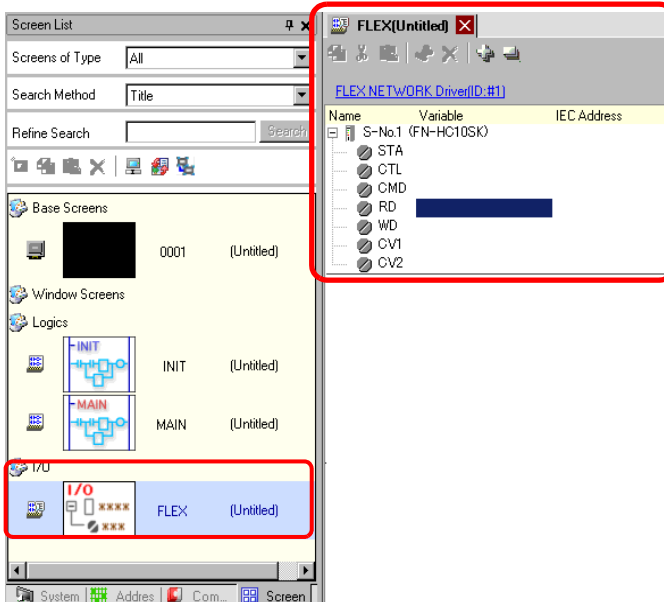
- 1 Click the [Screen List] tab to open [Screen List] Window.



NOTE

- If the [Screen List] tab is not displayed in the Work Space, on the [View (V)] menu, point to [Work Space (W)] and then click [Screen List (G)].

- 2 Double-click I/O to display the I/O in the workspace.



NOTE

- For how to map addresses to I/O terminals, refer to the following section.
 ➞ “31.1.2 Mapping Addresses to I/O Terminals” (page 31-7)

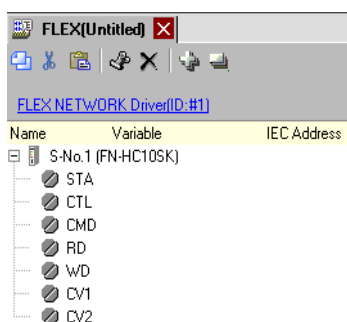
■ I/O Terminal Operations

An I/O terminal to which an address is mapped operates as described below.

- Specifies the data value by reading or writing by a command, and operates the counter.
- For details on commands, refer to "High-Speed Counter Unit Users Manual 5.1 FLEX NETWORK Driver Settings" and "High-Speed Counter Unit Users Manual 5.2 Data Settings".
- If a power interruption occurs on the I/O unit, the driver can recognize it and resume communications after the power is restored.

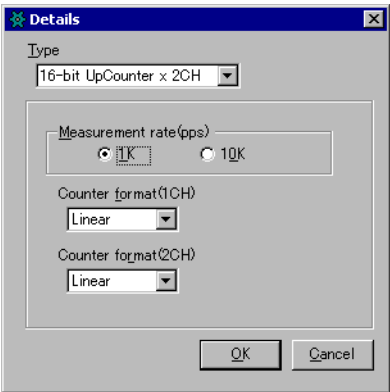
31.7.3 Settings Guide for the FLEX NETWORK High-Speed Counter

■ I/O Screen



Setting		Description
Copy		To copy a variable select it and click the icon.
Cut		To cut a variable select it and click the icon.
Paste		To paste a variable, Copy or Cut it to the clipboard and then click the icon.
Edit		To change a variable or register a new variable, select it and click the icon.
Delete		To delete a variable select it and click the icon.
Expand All		Expands to display all I/O terminals.
Collapse All		Collapses to hide display of all I/O terminals.
FLEX NETWORK Driver (ID:#1)		Click to switch to the I/O Driver settings screen.
Name		Displays the terminal ID symbol.
Variable		Displays the address mapped to the terminal.
IEC Address		Displays the I/O address (IEC address).

■ Unit Detail Settings



(FN-HC10SK)

Setting	Description
Type	Select [16-bit UpCounter x 2CH], [32-bit UpCounter], or [32-bit UpDownCounter]. [16-bit UpCounter x 2CH] is set by default.
Measurement rate (pps)	Select the measurement speed. • When setting [Type] to [16-bit UpCounter x 2CH] or [32-bit UpCounter], select [1K] or [10K]. [1K] is set by default. • When setting [Type] to [32-Bit UpDownCounter], select [Line Driver] or [Open Collector]. [Line Driver] is set by default.
Pulse Counter	Select the pulse count method from [1 Signal - Multiply by 1 (50kpps)], [1 Signal - Multiply by 1 (200kpps)], [2 Signal - Multiply by 1 (50kpps)], [2 Signal- Multiply by 1 (200kpps)], [2 Signal - Multiply by 2 (25kpps)], [2 Signal - Multiply by 2 (100kpps)], [2 Signal - Multiply by 4 (12.5kpps)], or [2 Signal - Multiply by 4 (50kpps)]. [1 Signal - Multiply by 1 (50kpps)] is set by default.
Counter format	Select [Linear], [Ring], or [Frequency]. For details on the count method, refer to Section 4.2 Various Functions, in the "High-Speed Counter Unit Users Manual"