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

31.7.1 Device Settings 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.

#### ■ Model of FlexNetwork High-Speed Unit and Number of Occupied Stations

Type	Model	No. of Points	No. of Occupied Stations
High-speed counter	FN-HC10SK41	-	4 stations

■ Setup Procedure

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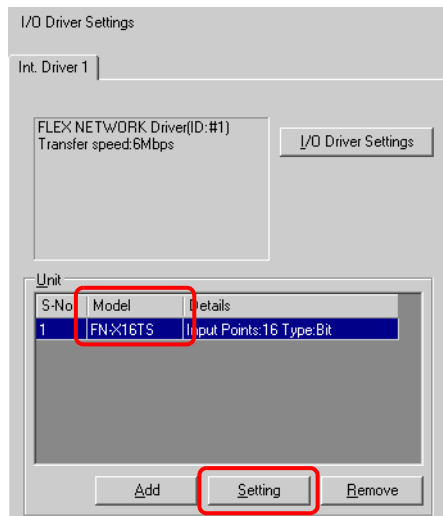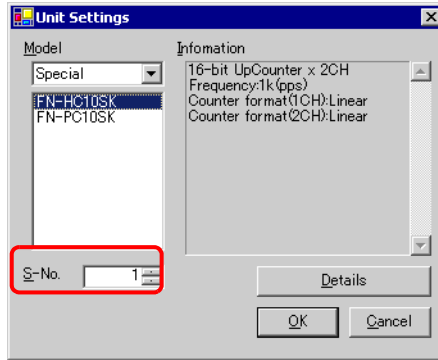

2 The [Unit Settings] dialog box is displayed. To change the type, in the [Model] area, select the model of I/O unit. (e.g. [Special] and "FN-HC10SK").
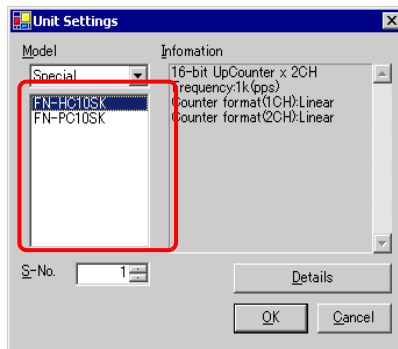
NOTE
• The type of the I/O unit can be selected in the top left menu.
• On the right, the detailed specifications for the selected I/O unit are displayed.

3 In [S-No.] enter the S-No. for the connected I/O unit.

NOTE
• 1 to 63 can be specified for S-No., and the same S-No. cannot be set in the same FLEX NETWORK.
)   " ■ Model of FlexNetwork High-Speed Unit and Number of Occupied Stations" (page 31-33)

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

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

NOTE
• For the detail settings of the unit, refer to the following section.
)   "31.7.3 Setting Guide for the FLEX NETWORK High-Speed Counter ■ Unit Detail Settings" (page 31-38)

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

7 To add an I/O unit, click [Add]. In the displayed [Unit Settings] dialog box, 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 31-14)
)   "31.5 Mapping I/O to the FLEX NETWORK Analog Unit" (page 31-21)
)   "31.6 Mapping I/O to the FLEX NETWORK Positioning Unit" (page 31-28)

8 After completing the device settings for the FLEX NETWORK, map the addresses to the I/O terminals.
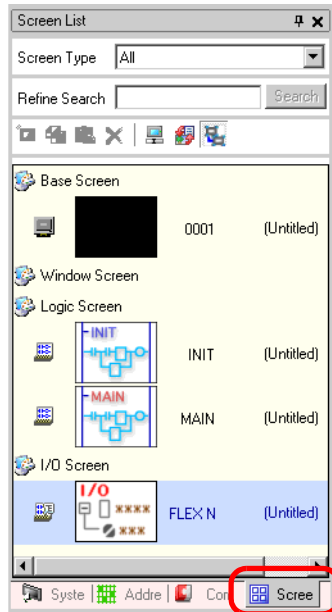
NOTE
)   "31.7.2 I/O Terminals in the FLEX NETWORK High-Speed Counter Unit" (page 31-35)

31.7.2 I/O Terminals in the FLEX NETWORK High-Speed Counter Unit

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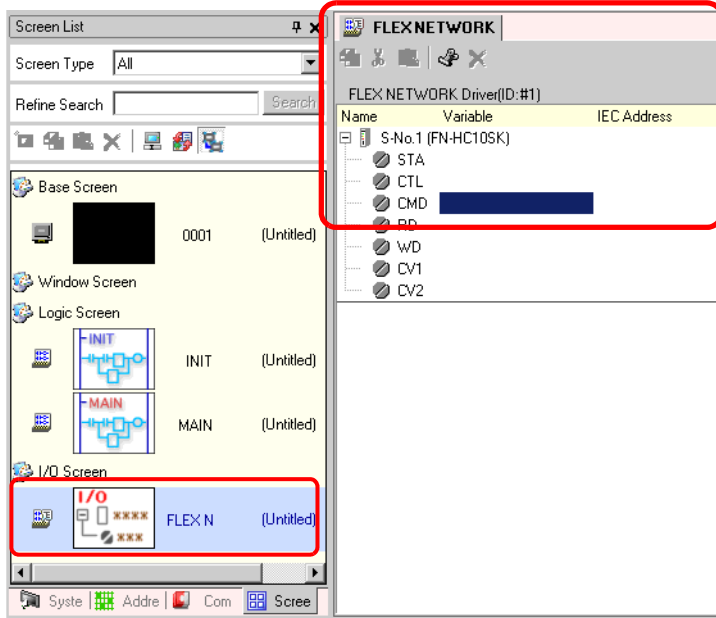
■ Displaying the I/O Screen

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 Window (G)]. |

2 Double-click the [I/O Screen] 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 31-4)

■ **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.

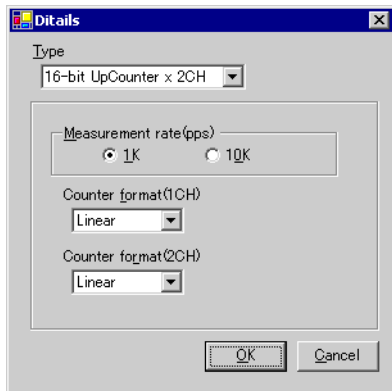### 31.7.3   Setting Guide for the FLEX NETWORK High-Speed Counter

■ I/O Screen
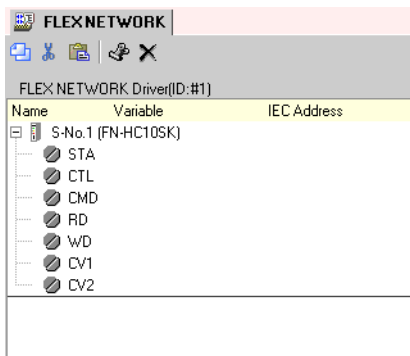
Setting		Description
Copy	🔼	To copy a variable select it and click the icon.
Cut	✂	To cut a variable select it and click the icon.
Paste	📋	To paste a variable, Copy or Cut it to the clipboard and then click the icon.
Edit	✏	To change a variable or register a new variable, select it and click the icon.
Delete	✕	To delete a variable select it and click the icon.
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 × 2CH], [32-bit UpCounter], or [32-bit UpDownCounter]. [16-bit UpCounter × 2CH] is set by default.
Measurement rate (pps)	Select the measurement speed. • When setting [Type] to [16-bit UpCounter × 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 "High-Speed Counter Unit Users Manual 4.2 Various Functions".