

## 31.4 Mapping I/O to the FLEX NETWORK DIO Unit

### 31.4.1 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 DIO Unit Models and Number of Occupied Stations

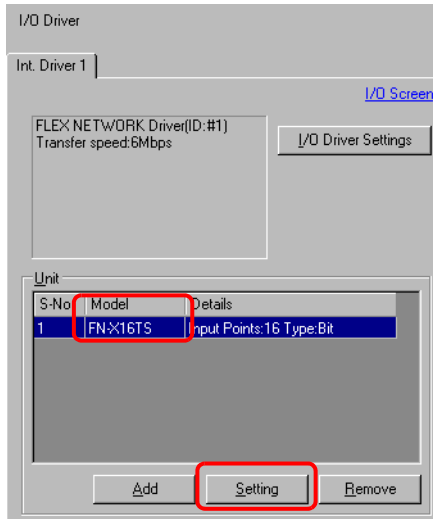
The following table lists the type and number of points, and number of occupied stations for the FLEX NETWORK DIO unit.

For example, if you use an I/O unit with 32 discrete inputs and 32 discrete outputs for a total of 64 points, and define S-Number 1, then the I/O unit will use S-Number 1 to 4.

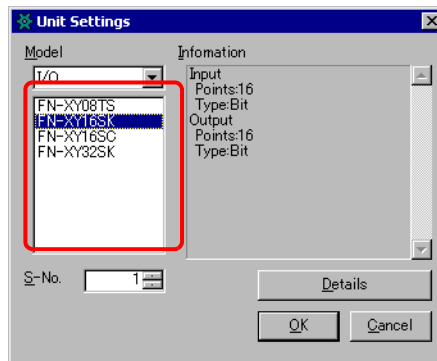
Type	Type	Number of Points	Number of Occupied Stations
DIO	FN-X16TS	16 input points	1 station
	FN-X32TS	32 input points	2 stations
	FN-Y08RL	8 output points	1 station
	FN-Y16SK	16 output points	1 station
	FN-Y16SC	16 output points	1 station
	FN-XY08TS	8 input points 8 output points	1 station
	FN-XY16SK	16 input points 16 output points	1 station
	FN-XY16SC	16 input points 16 output points	1 station
	FN-XY32SK	32 input points 32 output points	4 stations

## ■ Setup Procedure

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



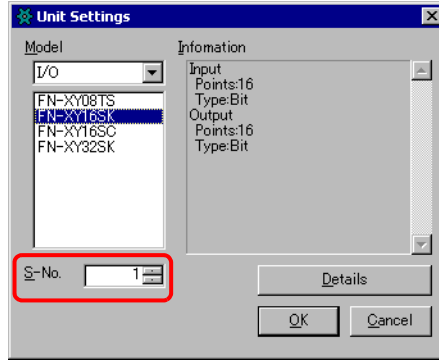
2 The [Unit Settings] dialog box appears. To change the type, in the [Model] area, select the model of I/O unit. (For example, [Input and Output] and "FN-XY16SK").



### 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 DIO 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 DIO Unit Models and Number of Occupied Stations” (page 31-17)

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

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

**NOTE**

- For the unit detail settings, refer to the following section.  
 ☞ “31.4.3 Setup Guide for the FLEX NETWORK DIO Unit ■ Unit Detail Settings” (page 31-23)

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

S-No	Model	Details
1	FN-XY16SK	Input Points:16 Type:BitOutput

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 each type.  
 ☞ “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)  
 ☞ “31.7 Mapping I/O to the FLEX NETWORK High-Speed Counter Unit” (page 31-37)

8 After completing the device settings for the FLEX NETWORK, map the addresses to the I/O terminals.

**NOTE**

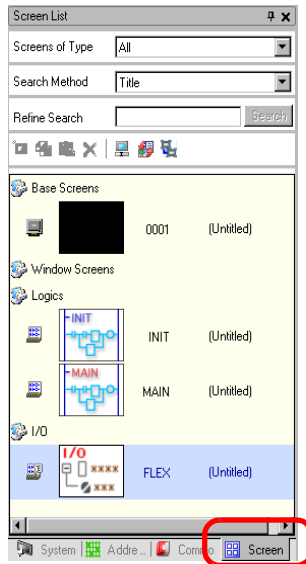
- ☞ “31.4.2 I/O Terminals in the FLEX NETWORK DIO Unit” (page 31-20)

### 31.4.2 I/O Terminals in the FLEX NETWORK DIO Unit

Displays the I/O and maps addresses to the I/O terminals of the FLEX NETWORK DIO unit.

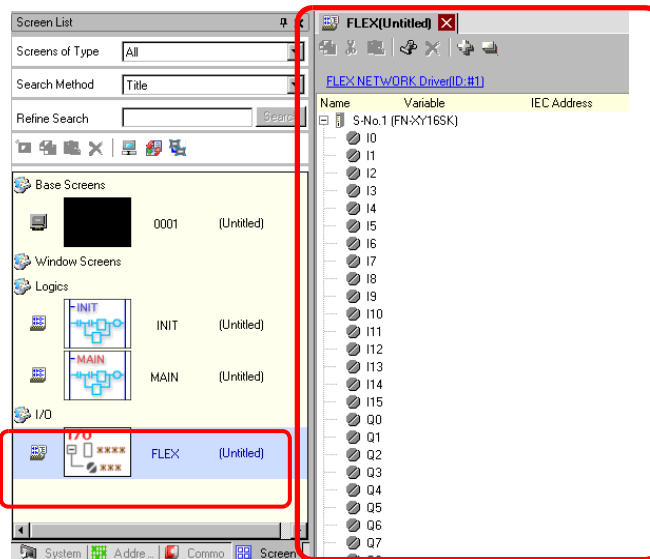
#### ■ Displaying the I/O

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)

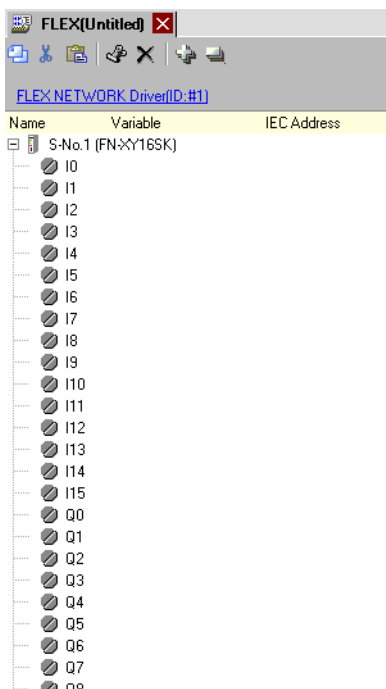
## ■ I/O Terminal Operations








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

- When the input terminal turns ON, the address mapped to the terminal turns ON.
- When the address mapped to the output terminal turns ON, the terminal turns on.
- The I/O Driver recognizes when the I/O unit power shuts down. You can restart communication after power is restored.

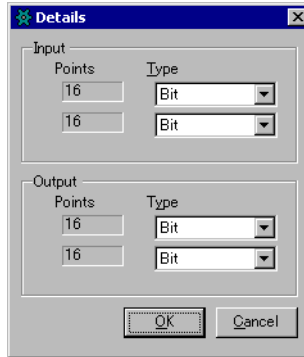
### 31.4.3 Setup Guide for the FLEX NETWORK DIO Unit

#### ■ 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



32 input and output points (FN-XY32SK)

Setting	Description
<b>Input</b>	Select the variable type for the input from either [Bit] or [Word]. The 8, 16, or 32 points change depending on the type of I/O unit. [Bit] is set by default.
<b>Output</b>	Select the variable type for the output from either [Bit] or [Word]. The 8, 16, or 32 points change depending on the type of I/O unit. [Bit] is set by default.