Compatibility of Software

This booklet explains differences between the GP2000/77R series and the GP3000/ST3000 series and how to change the settings.

Screen Creation Software

GP2000/77R Series: GP-PRO/PBIII

GP3000/ST3000 Series: GP-Pro EX

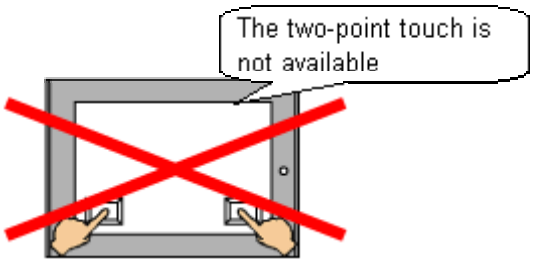
Table of Contents

1. Touch Panel Type

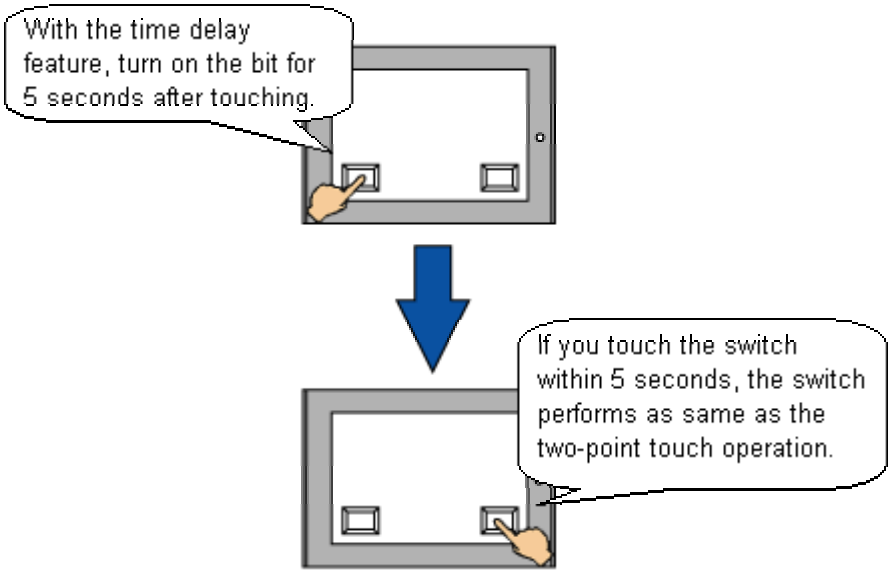
The touch panel type of the GP3000 series differs from that of the GP2000 series. The GP2000 series uses the matrix type, on the other hand, the GP3000 series uses the analog touch panel type, which offers you flexibility of switch positioning because there is no grid.

The major differences of touch panel operation between the GP3000 series and the GP2000 series are as follows;

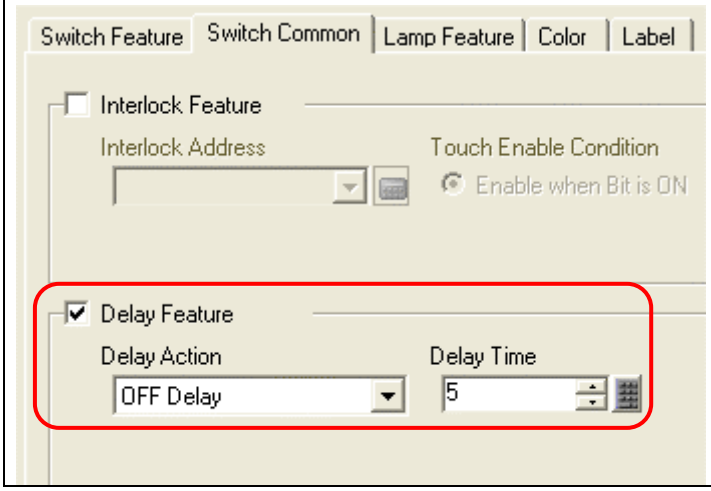
Difference 1
The GP3000 series doesn't support the two-point nor three-point touch, which the GP2000 series supports.



Therefore, the switch operation with the two-point touch on the GP2000 series cannot perform on the GP3000 series. Only the first touch is enabled and the second is not recognized.
To replace with the GP3000 series, change it to the time delay operation of the [Switch/Lamp] part such as ON Delay or OFF Delay feature.



Make the settings on one of the switches for the two-point touch operation; the [Switch/Lamp] settings -> [Switch Common] tab -> [Delay Feature].



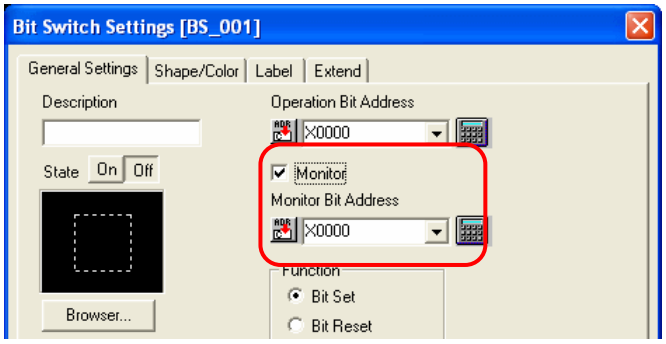
Difference 2
Using the analog touch panel type, you may need calibration of the touch position. For the information on how to calibrate, refer to the Maintenance/Troubleshooting Manual.

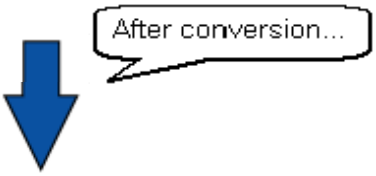
2. Compatibility of Bit Switch

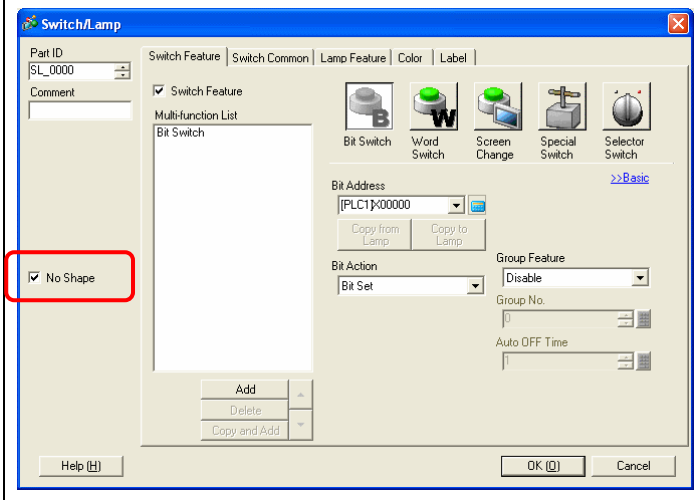
GP-PRO/PBIII's [Bit Switch] part is converted to GP-Pro EX's [Switch/Lamp] part -[Switch Feature].

Basically, the operation of GP-Pro EX's [Switch/Lamp] part is the same as that of GP-PRO/PBIII's [Bit Switch] part, however, they may differ depending on the contents set in GP-PRO/PBIII.

The setting condition by which the operation differs is introduced below. Please make changes referring it.

Setting before conversion	
In GP-PRO/PBIII, when [Monitor] of [SW_NO_BORDER] (a switch part with no border) from the browser of [Bit Switch] (parts) is checked,	



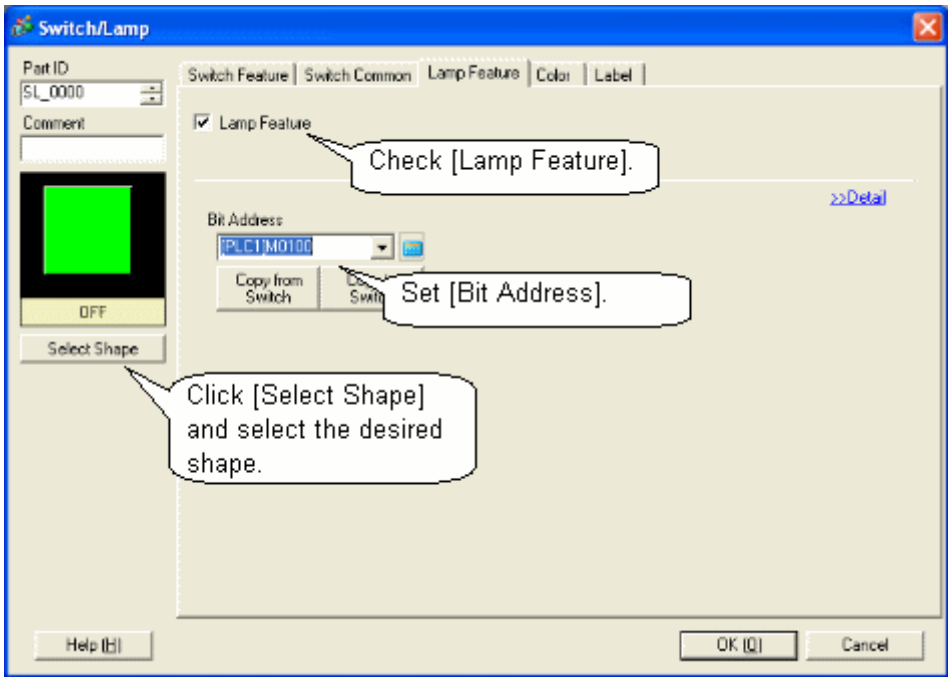
Setting after conversion	
After conversion to GP-Pro EX, [No Shape] in [Switch/Lamp](parts) will not be checked.	

In order to enable Monitor in GP-Pro EX in the same way as GP-PRO/PBIII, change the [Lamp Feature] settings of [Switch/Lamp] (parts) as follows.

Open the [Switch/Lamp] settings window and select [Lamp Feature] tab

Check [Lamp Feature].

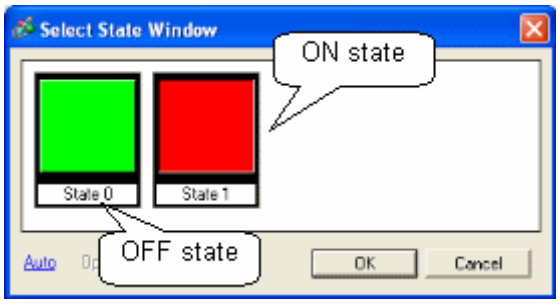
The field for [Bit Address] will appear. Enter the address to be monitored.



Click [Select Shape], and you can select a shape for the lamp.

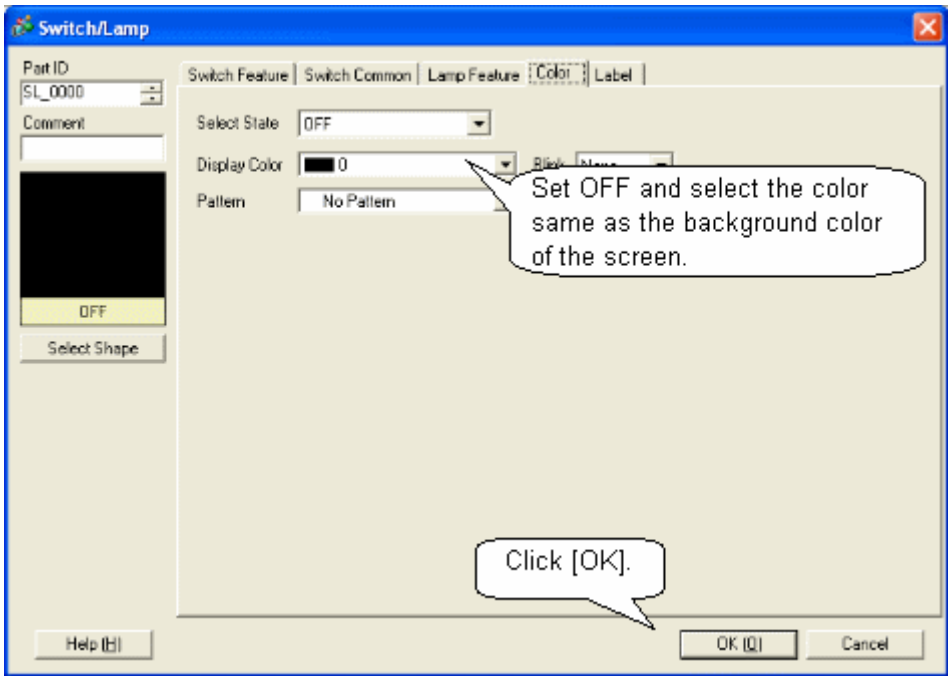
In the “Select State Window”, set the State 0 to [SW_SP221_OFF] of the Standard Parts and the States 1 to [SW_SP221_ON] and then click [OK].

Here, the State 0 indicates OFF and the States 1 indicates ON.



Next, select the [Color] tab.

Set the [Select State] to OFF and select the [Display Color] same as the background color of the base screen.



Click [OK] to finish the settings.

Changing the [Switch/Lamp] settings as above allows the switch to perform as same as one of the GP-PRO/PBIII's switch with no border.

3. Compatibility of Trend Graph

GP-PRO/PBIII's [Trend] screen is converted to GP-Pro EX's [Historical Trend Graph] part and [Sampling Settings], or [Data Block Display] part. You can use them in the same way as before conversion.

If the [Graph Type] of the [Trend] screen is set to "Normal" or "Pen Recorder", it will be converted to the [Historical Trend Graph] part and the [Sampling Settings]. If "Block Display", it will be converted to [Data Block Display Graph]. They will be automatically placed on each vacant base screen in the 9000's.

Also, the Load Screen feature will be converted automatically, and you do not need to edit it.

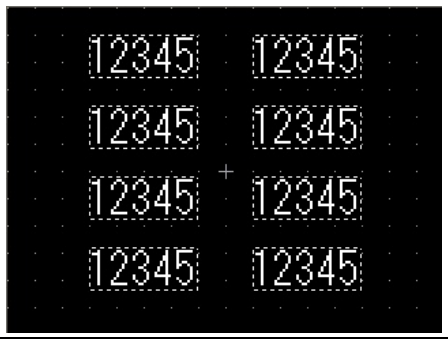
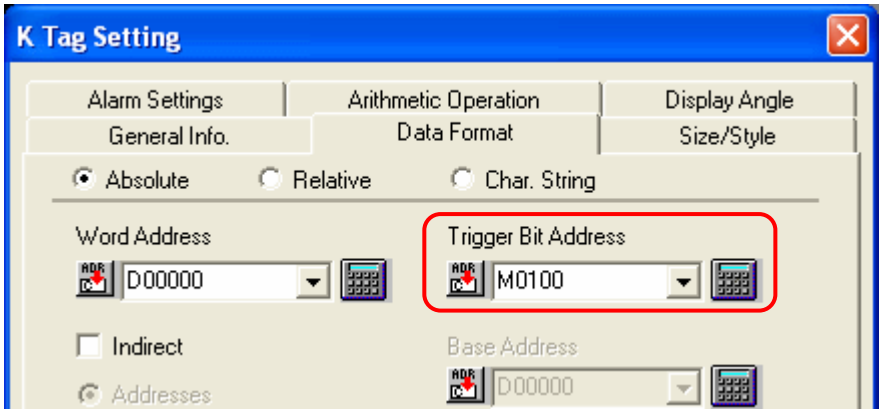
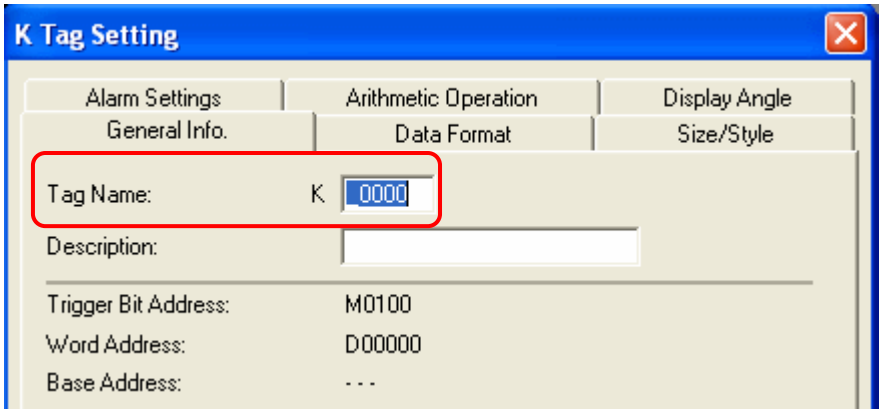
Conversion table of Trend Graph

GP-PRO/PBIII	GP-Pro EX
Channel settings of Trend Graph	Settings after conversion
Normal	Historical Trend Graph+ Sampling Settings
Pen Recorder	Historical Trend Graph+ Sampling Settings
Block Display	Data Block Display Graph

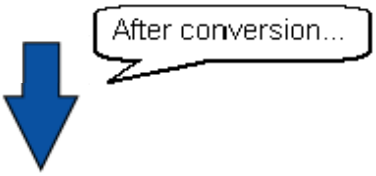
4. Compatibility of K Tag (Input Order)

If K tags are used on the GP2000/77R/70 Series, the input order may be changed and converted depending on the contents set with GP-PRO/PBIII.

Cases that the input order of K tags may be changed.

Condition 1	When placing multiple K tags 
Condition 2	When setting the same trigger bit addresses for all 
Condition 3	When setting the same tag names for all 

*** When all of the above conditions meet, the input order may be changed and converted.**



K tags will be converted into [Data Displays] for the GP3000 series.
If you input data when the trigger bit of the data display is ON, the input order of the data display is **the order in which you have placed K tags** with GP-PRO/PBIII before conversion.

In case that the input order of the data display of the GP3000 series is different from that of the GP2000/77R/70 series after conversion, set the [Input Order] feature of the GP-Pro EX data display to input the data in the order as you like.

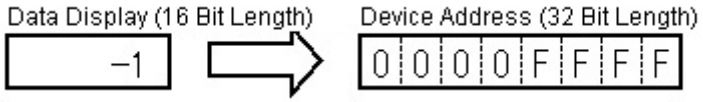
5. Compatibility of K Tag (Difference of Writing)

With GP-PRO/PBIII, in case that the bit length of the write-to device address is 32 bits and the bit length of the [Display & Write Data Format] of a K tag is 16 bits, the data is written with 32-bit according to the write-to device address. On the other hand, with GP-Pro EX, the data is written with 16-bit which is according to the settings for [Display & Write Data Format].
Therefore, in case that the minus value or the value that cannot be expressed with 16-bit is written, the result after writing to the device address will be different between GP-PRO/PBIII and GP-Pro EX.

e.g.) In case to write "-1"

GP-PRO/PBIII

GP-Pro EX



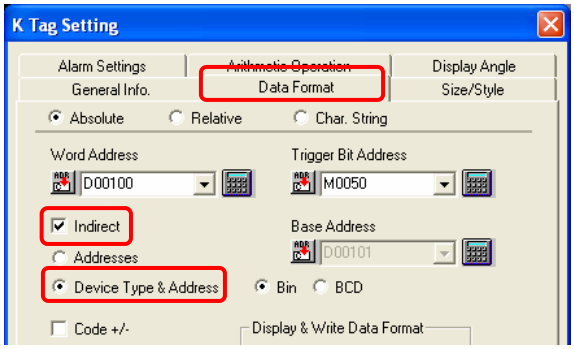
If the bit length of the write-to device address is 32 bits and the bit length of [Display & Write Data Format] of a K tag is 16 bits, please change to 32-bit with GP-Pro EX after conversion.

6.Compatibility of K Tag (Indirect Setting)

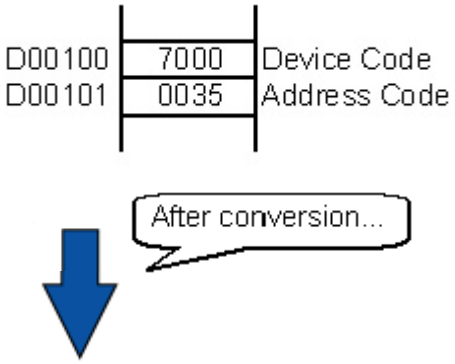
If you set [Indirect]'s [Device Type & Address] in the K Tag Settings, it may not operate properly after conversion. 2 words are used to specify addresses for GP-PRO/PBIII's K Tag, but 4 words are used to specify addresses for GP-Pro EX's Data Display in order to support multi-protocol (device multiple connection). For example, if you convert a project file with several K tags, which have [Device Type & Address] of [Indirect] settings, located by 2 words between each on, addresses specification will be duplicated. To operate them properly, please set the addresses not to duplicate.

Description of K Tag Setting

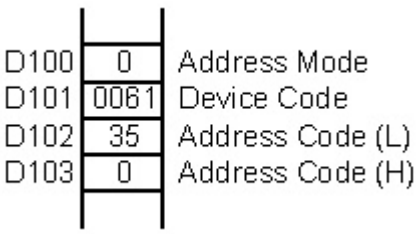
* When [Indirect] is checked and [Device Type & Address] is selected on the [Data Format] tab



2 words are used to specify addresses for GP-PRO/PBIII's K tag as below.



4 words are used to specify addresses for GP-Pro EX's Data Display as below.



7. Compatibility of N Tag

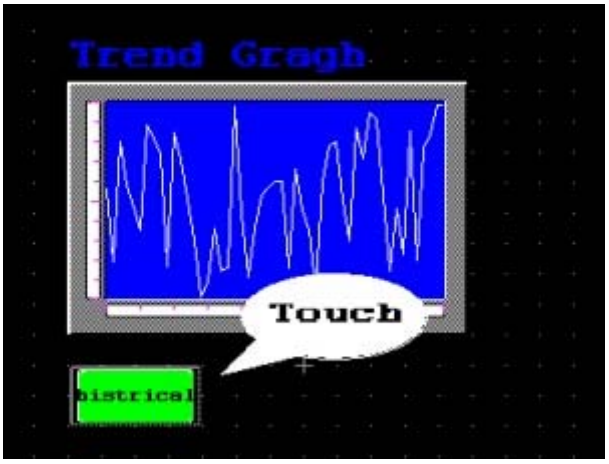
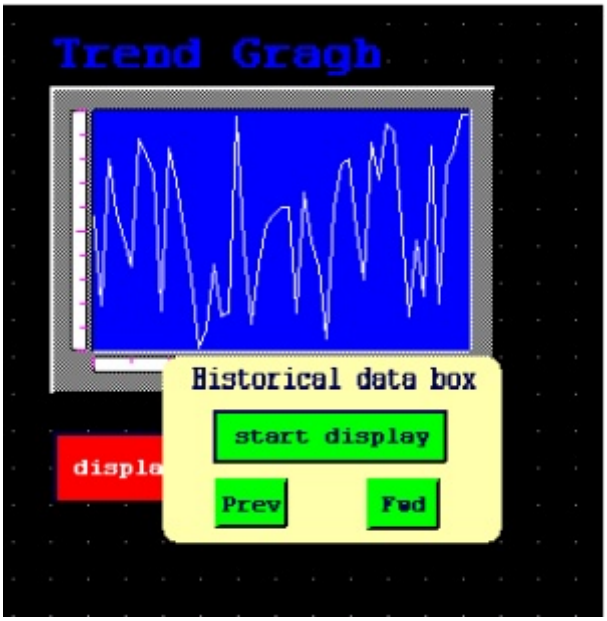
GP-PRO/PBIII's N Tag is converted to GP-Pro EX's Data Display.

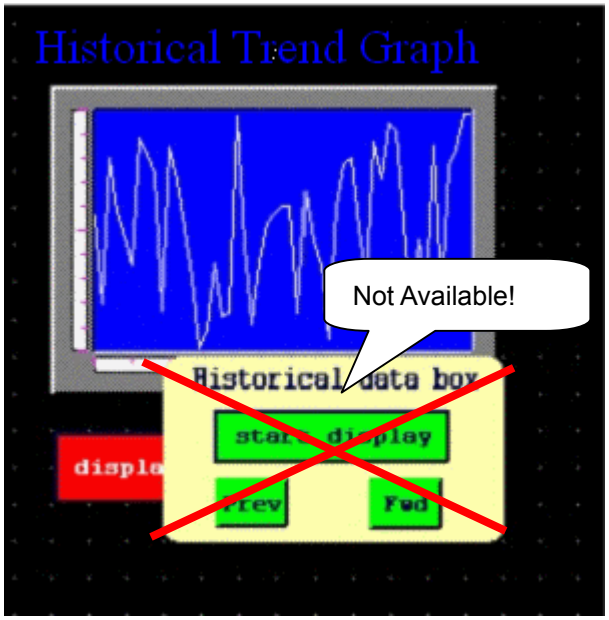
However, if you used [N699] of [N Tag] for input setting in the GP*10 series, it is converted to GP-Pro EX's [Numeric Display] of Data Display (→ see NOTE).
In this case, checking the Input Permit box in the [Data Display] setting window enables numeric input.

NOTE
Data of the GP*10 series (*.GPM) cannot be converted on GP-Pro EX. Convert it to data of GP-PRO/PBIII (*.prw) first, and then convert it to data of GP-Pro EX.

8. Precautions for using the switch for [History Data Display] of Trend Graph on the window

GP-PRO/PBIII's [Trend Graph] includes a feature of history display. GP-Pro EX is also able to display history data. However, if the following operation of history display was used in GP-PRO/PBIII, it may not operate properly after conversion.

Example of usage of GP-PRO/PBIII's Trend Graph	
The graph normally works as a trend graph. To display history data, it calls a window.	
The graph displays history data on a called window. The [Trend Operation Key] of the Special Switch, which operates the history data, operates on the window.	

GP-Pro EX's Historical Trend Graph after conversion	
The switches for [Historical Trend Graph], which are of Special Switch for history display, do not operate on the window.	

NOTE
GP-PRO/PBIII enables the operation keys of history display on the window, on the other hand, GP-Pro EX doesn't. Please place the operation keys on the screen directly.

9. About the performance when a window is overlapping on a momentary switch

Between GP-PRO/PBIII and GP-Pro EX, performance when a window is displayed overlapping on a momentary switch differs.

The momentary switch's basic performance is the same; a bit is on while the switch is touched and it is off when untouched.

However, if a window appears on the area of the momentary switch that you are touching, GP-PRO/PBIII keeps the bit on while you are touching. On the other hand, GP-Pro EX turns off the bit in this situation.

10. About the performance when display area of the system window is overlapping

As a major example, the message banner feature of the Alarm part is one of the system windows.

GP-PRO/PBIII allows switches, which are placed behind the message banner, to be activated even while an Alarm message is running. However, GP-Pro EX does not.

To activate switches on the bottom of the screen even while an Alarm message is running, re-edit the screen not to overlap the message banner display area on the switches.

The switch function overlapped by the error display or Japanese FEP, which is also a system window, is not activated as well.

11. Change of Tag Process

Between the GP3000 series and the GP2000/77R/70 series, screen-processing speed differs depending on the performance of the hardware.

With the GP2000/77R/70 series, when D-script operates arranging the fine timing by using Tag Scan Time or Tag Scan Counter, after the project file conversion, it may not operate at the same timing with the GP3000 series.

For replacement to the GP3000 series, please carry an operation check or tuning of D-script.

12. Compatibility of Text

* This compatibility information applies only for using Japanese fonts.

GP-PRO/PBIII's [Direct Text] is converted to GP-Pro EX's [Direct Text].

Basically, the operation of GP-Pro EX's [Direct Text] is the same as that of GP-PRO/PBIII's [Direct Text].

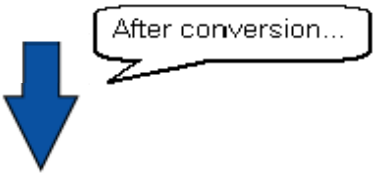
However, GP-Pro EX does not have selection setup items for GP-PRO/PBIII's [1/2 Kanji Font].

Instead of it, with GP-Pro EX, the Kanji size can be selected in 8 x 8.

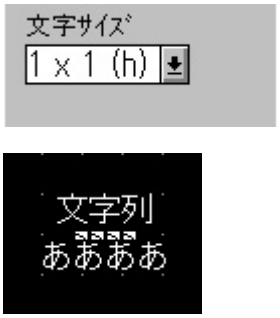
In converting data from GP-PRO/PBIII to GP-Pro EX, if the text size of [Direct Text] is set to Half Size, the text size setting after conversion differs in the following conditions.

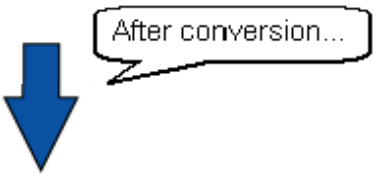
When the display of the text differs	
When double-byte and single-byte letters exist in one line	→ Pattern 1
When only single-byte letters exist in one line	→ Pattern 2

Pattern 1: When double-byte and single-byte letters exist in one line	
Settings on GP-PRO/PBIII The font size is set to "1x1 (h)". The half size (h) is available with single-byte letters, but not with double-byte letters. The right figure shows a Direct Text "文字列aaa". "文字列" is double-byte and "aaa" is single-byte and half sized.	



Text converted to GP-Pro EX	
The size will be changed to "8 x 16 dot", therefore, the font size of "aaa" will be changed.	

Pattern 2 When only single-byte letters exist in one line	
Settings on GP-PRO/PBIII The font size is set to “1x1 (h)”. The half size (h) is available with single-byte letters, but not with double-byte letters. The right figure shows a Direct Text “文字列aaa”. “文字列” is double-byte and “aaa” is single-byte and half sized.	



Text converted to GP-Pro EX The size will be changed to “8 x 8 dot” The font size of “文字列 “ and “あああ” will be smaller.	

13. Compatibility of Fill

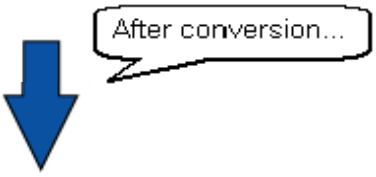
GP-PRO/PBIII's [Fill] setting is not supported by GP-Pro EX.

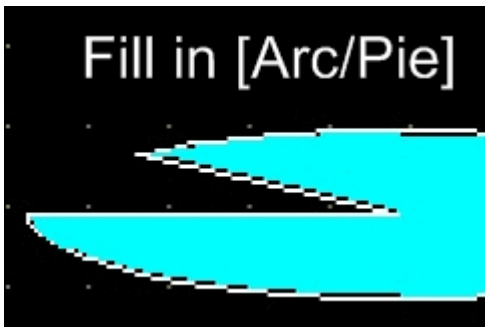
If you have set [Fill] in GP-PRO/PBIII, [Square/Rectangle], [Polygon], etc. will be converted to a different Draw feature or a "Filled" object after converted to GP-Pro EX.

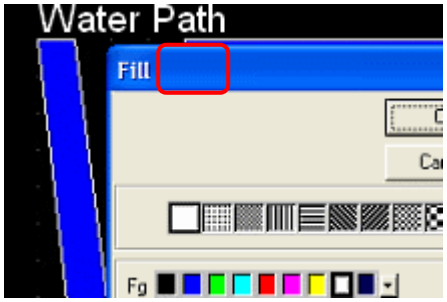
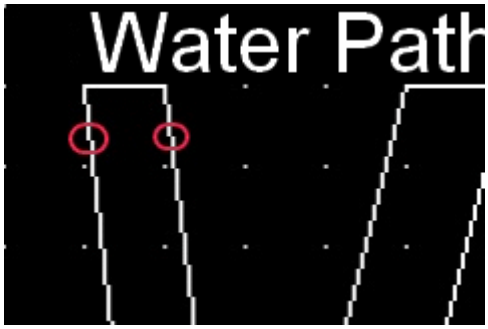
However, in the following cases, there are differences of how to display between the GP2000 series and the GP3000 series.

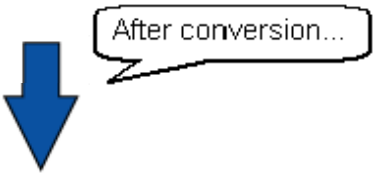
Cases the Fill display differs	
When [Fill] is used with [Arc/Pie]	→ Pattern 1
When an object after conversion includes more than 100 vertices	→ Pattern 2
When [Fill] and [Load Screen] are used	→ Pattern 3
When [Fill] is used with [Text]	→ Pattern 4

Pattern 1: When [Fill] is used with [Arc/Pie]	
Before conversion (GP-PRO/PBIII) [Fill] is set in the [Arc/Pie] placed on the base screen. GP-PRO/PBIII fills the color with no space.	

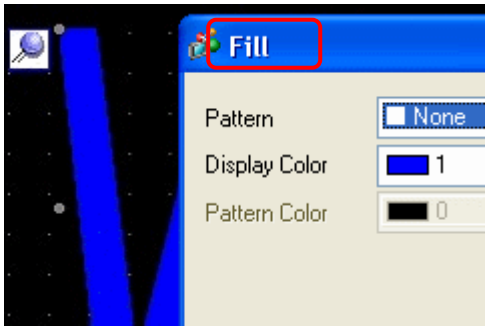


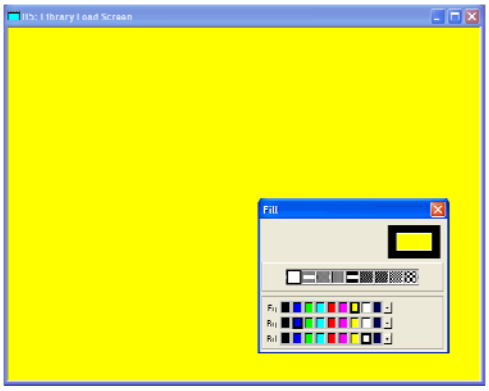
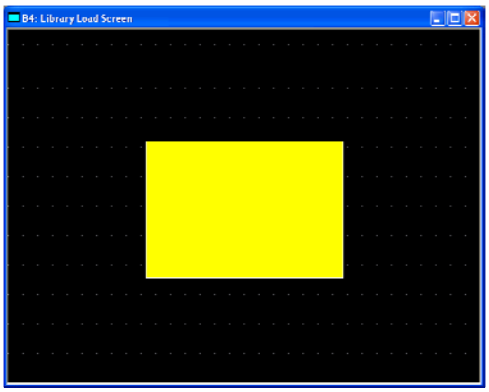
After conversion (GP-Pro EX) GP-Pro EX displays as the figure on the right. Some space may be seen around the border.	

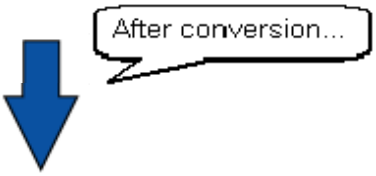
Pattern 2: When an object after conversion includes more than 100 vertices	
Before conversion (GP-PRO/PBIII) [Fill] is used in a picture whose line's angle is other than 45 degrees. (→ See the figure on the right.) The color of [Polyline] is set to white and [Fill] is to blue.	
Zooming up the picture, you can see the lines other than 45 degrees are out of alignment dot by dot. The points circled in red are counted as vertices. If there are more than 100 vertices, you need to note the followings.	



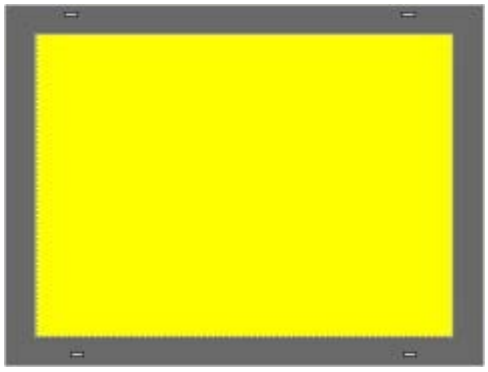
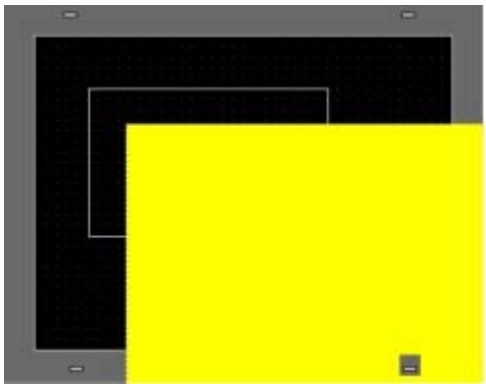
After conversion (GP-Pro EX) It looks same as on GP-PRO/PBIII.	
If you move the converted picture, you will see it has been converted into two objects; [Fill] and [Line/Polyline].	**[Fill]**  **[Line/Polyline]** 

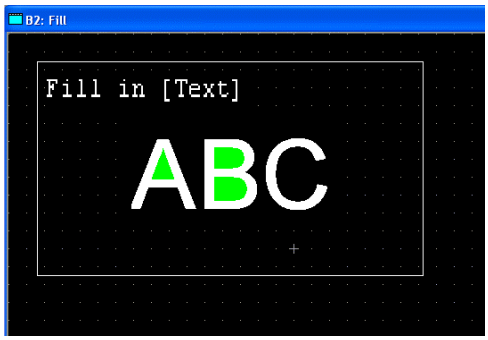
Please note that you cannot edit, or change size, on the [Fill] object.	

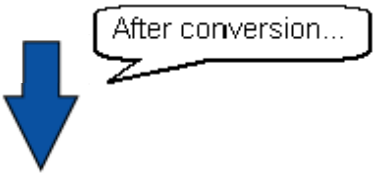
Pattern 3: When [Fill] and [Load Screen] are used	
Before conversion (GP-PRO/PBIII) The right figure B5 has only the [Fill] setting placed on it.	
A [Square] is placed on the center of the base screen B4, which calls B5 by the [Load Screen] feature.	

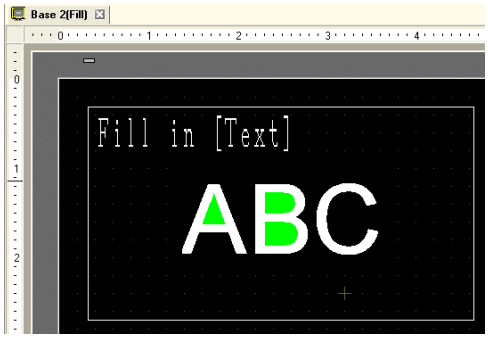
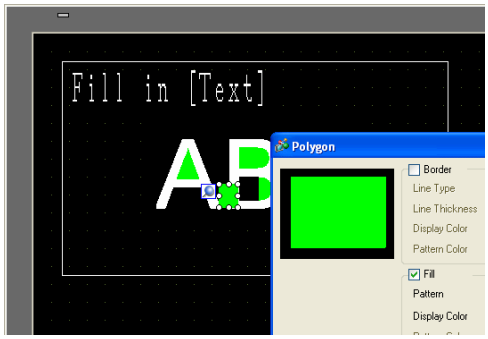


After conversion (GP-Pro EX) The figure on the right is the base screen B4.	

You can see it is different from that of GP-PRO/PBIII.	
If you move the object a little, you will see the [Call Screen] and the [Rectangle] are separated. Screen display may differ.	

Pattern 4: When [Fill] is used with [Text]	
Before conversion (GP-PRO/PBIII) [Fill] is used in a [Text].	



After conversion (GP-Pro EX) It looks same as that on GP-PRO/PBIII apparently.	
But the Fill has been converted to the Fill feature of [Polygon].	

14. Compatibility of CF Card Data

The data format of a CF card differs between the former GP series and the GP3000 series. Please be aware of the following points when using a CF card, which you used with the former GP series, with the GP3000 series.

Difference of file name

Data that was created with GP-PRO/PBIII and available in a CF card can be basically used with GP-Pro EX. However, some data need to be converted.

Data files in a CF card, which need to be converted, are sound data, image data, and filing data. You can use these data after converting them with the Project Converter and transferring to a CF card again.

	GP-PRO/PBIII	GP-Pro EX
Image Screen Data	ZI*****.BIN	I*****.BIN
Sound Data	ZO*****.BIN	O*****.BIN
Filing Data	ZF*****.BIN	F*****.BIN

(*****; file number)

Format of CF card

The format type of the CF card for the GP2000/77R series is FAT16, and for GP3000 series is VFAT.

VFAT is the successor of FAT16 and you can use the CF card for the former GP series even inserting into the GP3000 series without formatting.

	Format	Remark
Former GP Series	FAT16	
GP3000 Series	VFAT	VFAT is compatible with FAT16

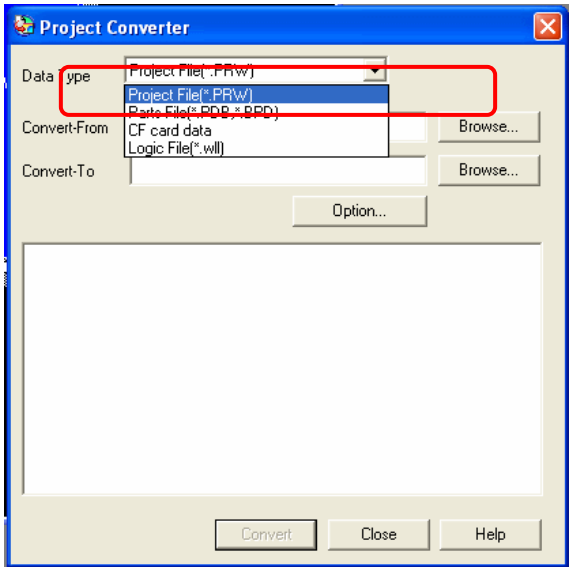
15. Precautions for conversion when filing data is saved in a CF card

If you used the GP-PRO/PBIII's [Filing Data] feature and **saved the filing data in a CF card, set the Data Type to [Project File (*.prw)] before converting it to GP-Pro EX.**
If you select [CF Card Data], the filing data cannot be converted.

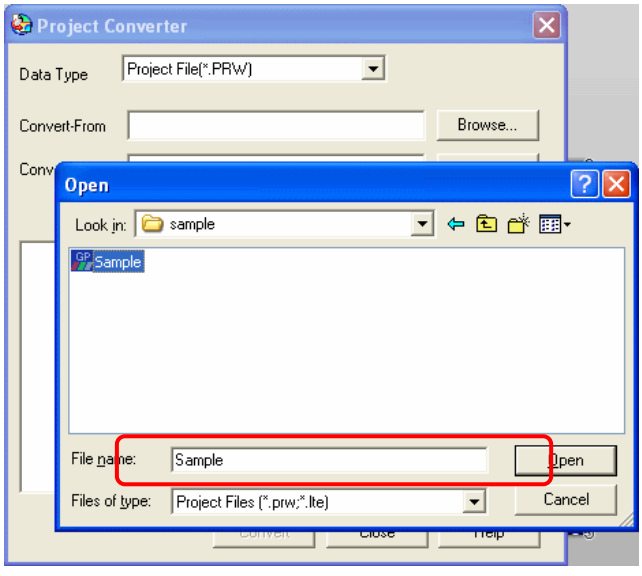
The followings show an example of how to convert a project file with CF card data.

Example of how to convert a project file with the Project Converter

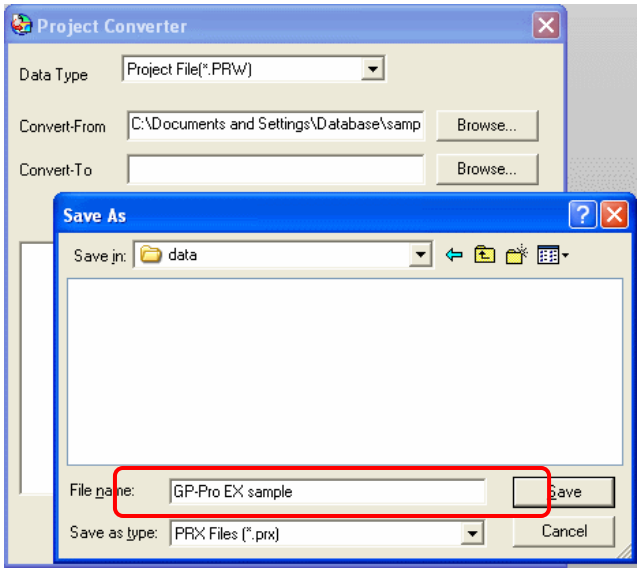
Select [Project File (*.prw)] for Data Type.



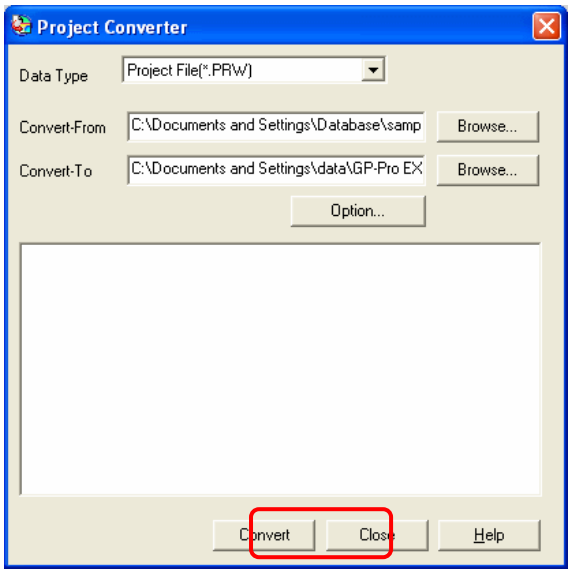
Click [Browse…] in [Convert-From] and specify a GP-PRO/PBIII project file.



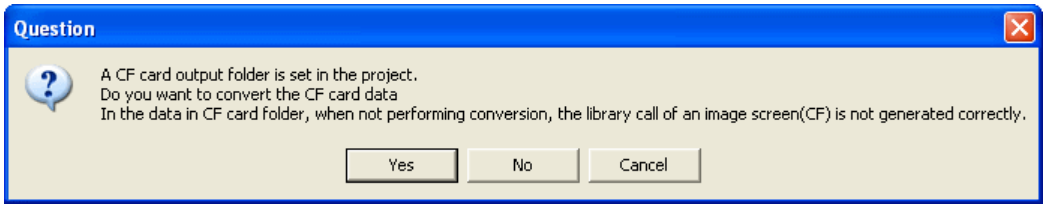
Click [Browse…] in [Convert-To]. Enter the GP-Pro EX file name after conversion and click [Save].



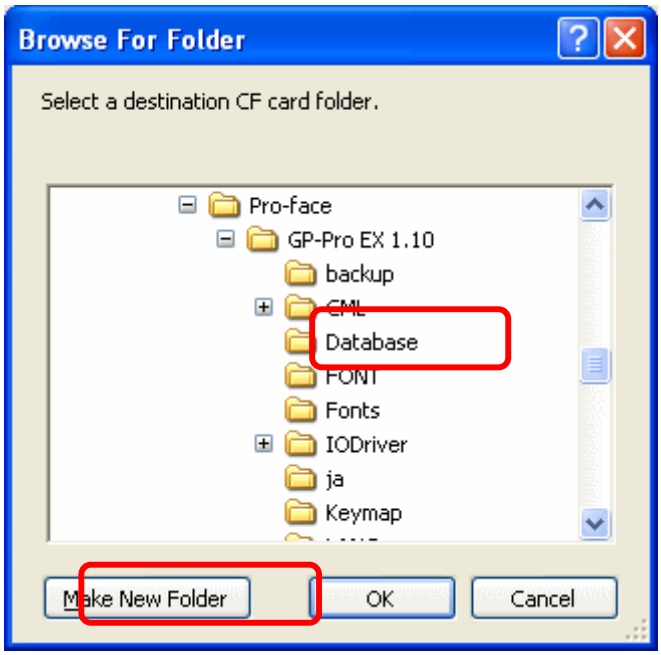
Click [Convert].



The confirmation window to ask if you change the data for CF card to that for GP-Pro EX will appear. Click [Yes].



Specify the output destination of the CF card data for GP-Pro EX after conversion. If there is no file available, you can create a new folder by clicking the [Make New Folder] button.
Converting a project file is completed.



16. Precautions for setting “Color Settings” to [256 Colors without blinking]

GP-PRO/PBIII’s Color Settings for the TFT LCD screens in the GP2000 series are converted to GP-PRO EX’s [16384 Colors, 3-Speed Blink].

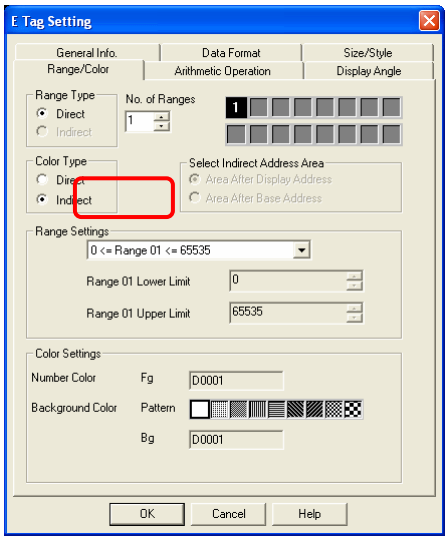
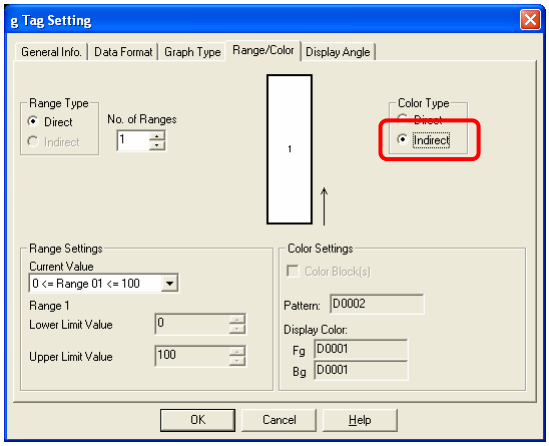
If you set the color to [256 Colors without blinking] in GP-PRO/PBIII, the settings will be changed to [16384 Colors, 3-Speed Blink] after conversion. If you use the converted data on the GP3000 series, the display may differ from before conversion or blink when setting the Color Type to “Indirect”.

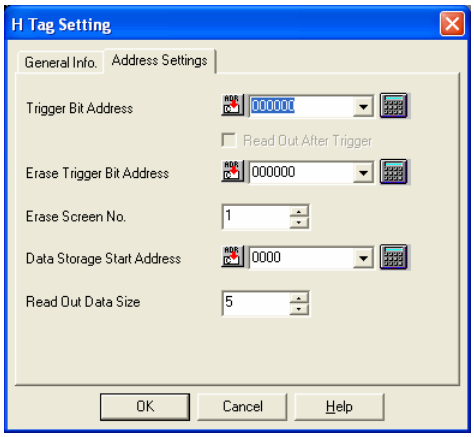
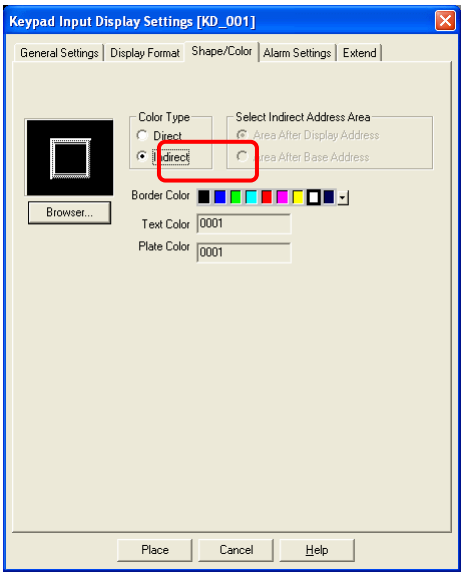
In order that GP-Pro EX displays the same as GP-PRO/PBIII displayed, set the number of colors (Color Settings) to [65535 Colors without blinking] before converting the screen data.

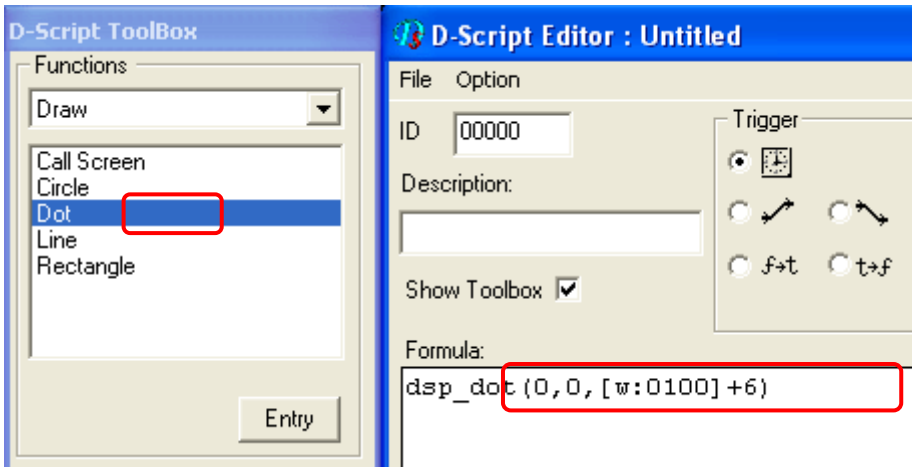
The followings are a possible example that “Indirect” of the color type is set and explain how to change the settings with GP-Pro EX.

Example cases to set the color type to indirect

If you have set the Color Type of E Tag, g Tag, H Tag, Keypad Input Display or Draw function of D-Script to “Indirect”, please change the settings as follows.

1. E Tag	2. g Tag
	
When setting the Color Type of an E Tag to “Indirect”	When setting the Color Type of a g Tag to “Indirect”

3. H Tag	4. Keypad Input Display
	
When using Draw data address on an H Tag	When setting the Color Type of a Keypad Input Display to “Indirect”

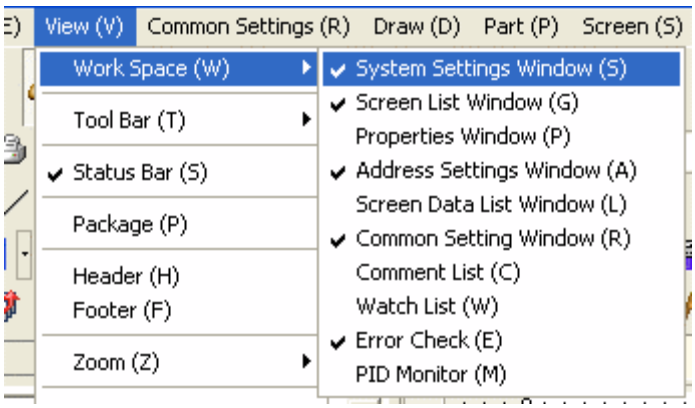
5. Address specification of the D-Script’s Draw function

When changing the displayed color by assigning color data to an address with the D-Script’s Draw function

How to change with GP-Pro EX

With GP-Pro EX, change the color type to [65535 Colors No Blink].

You can change the setting by following [System Settings Window] -> [Main Unit Settings] -> [Display Settings] -> [Color Settings].

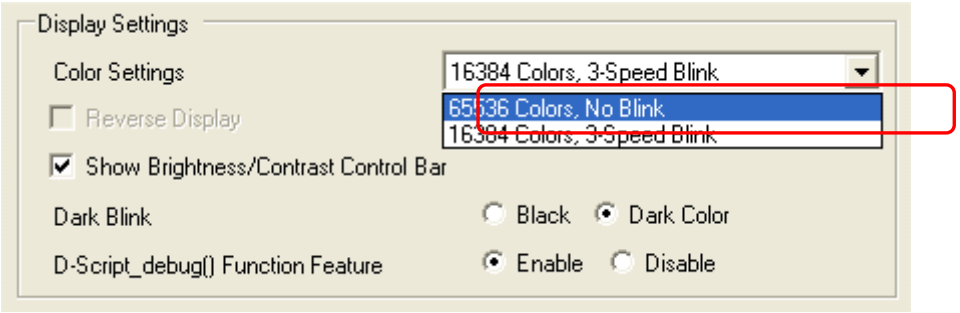
Confirm if the [System Settings Window] is displayed. If not, select the [View] menu -> [Work Space] and click [System Settings Window]. The [System Settings Window] will appear in the left of the Editor.



Click [Main Unit Settings] in the [System Settings Window].

Click , next to [16384 Colors, 3-Speed Blink] of Color Settings in the [Display Settings] area.

Select [65535 Colors, No Blink].



The settings are completed.

After transferring the screen data, performance will be the same as before.

17. Precautions for loading a part with “L Tag (Library Display)”

If you call a part from another screen using GP-PRO/PBIII’s [L Tag (Library Display)], you can load the picture of the part even though the part’s features cannot be loaded.

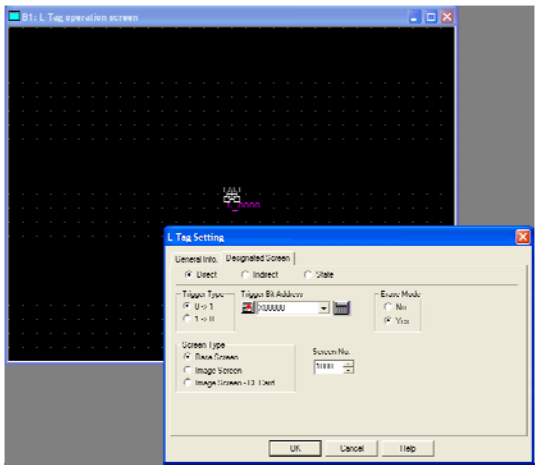
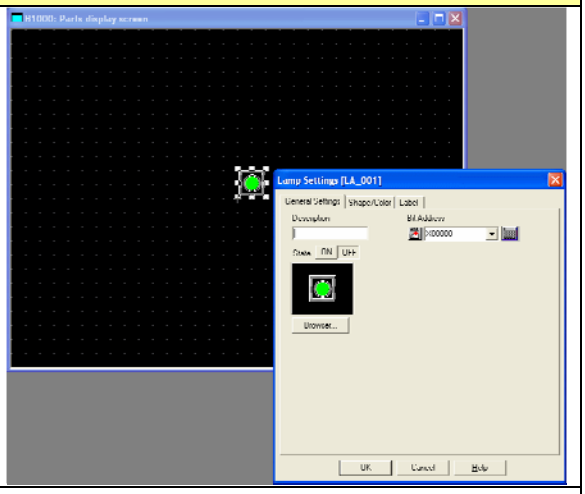
GP-Pro EX’s [Picture Display] is the alternative for [L Tag], however, if you call a [Picture Display] from another screen, even the picture will not be loaded.

The followings explain how GP-PRO/PBIII displays.

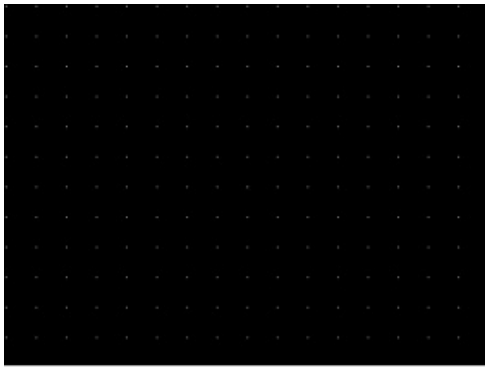
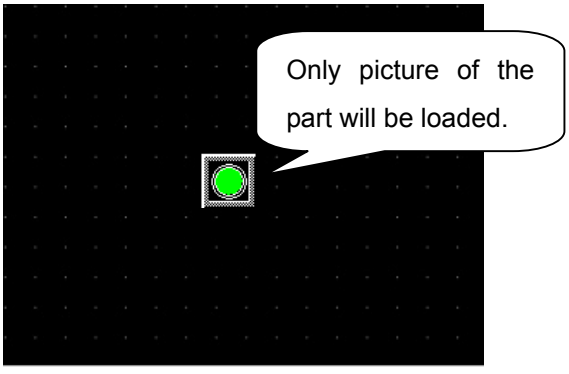
Example of settings on GP-PRO/PBIII

An [L Tag] is placed on B1 and a [Lamp] part is placed on B1000.

The part on B1000 is loaded to B1 using the L tag.

B1	B1000
	
An [L Tag] is placed on the center of the screen.	A [Lamp] part is placed on the center of the screen.

When setting as above, GP shows the picture of the Lamp part when the trigger bit of the L Tag turns on.

GP screen when the bit is off	GP screen when the bit is on
	

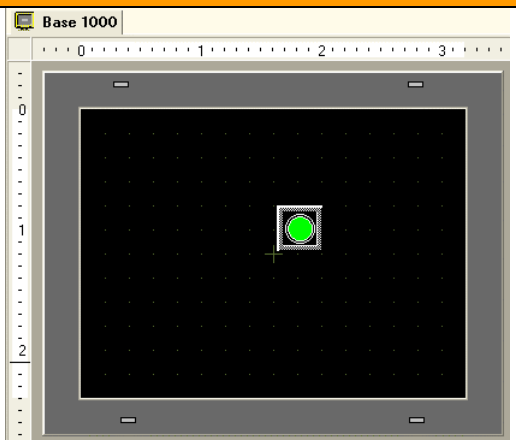
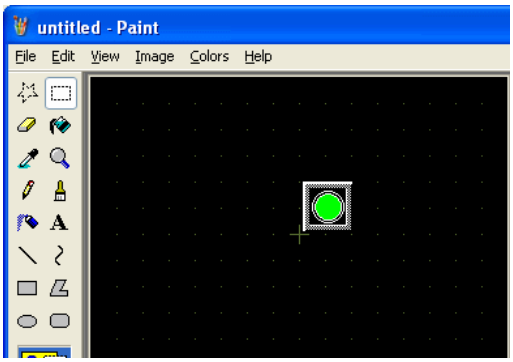
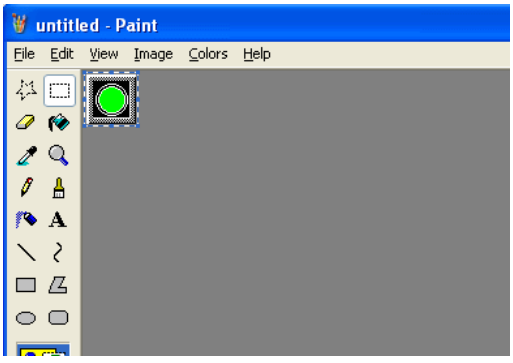
GP-Pro EX's performance and precautions

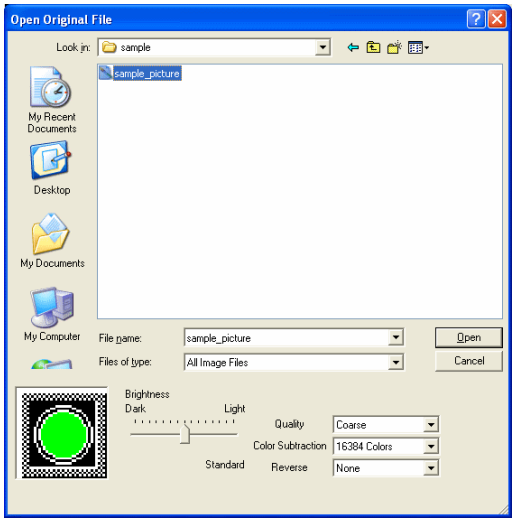
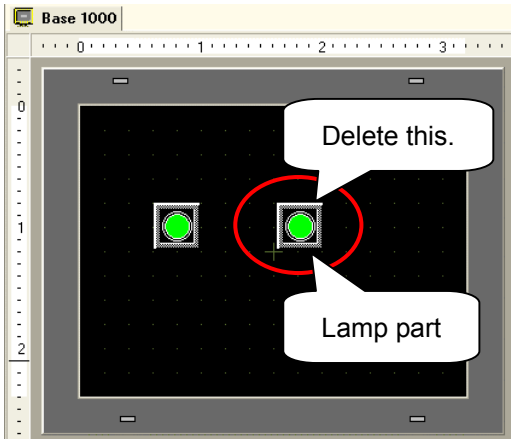
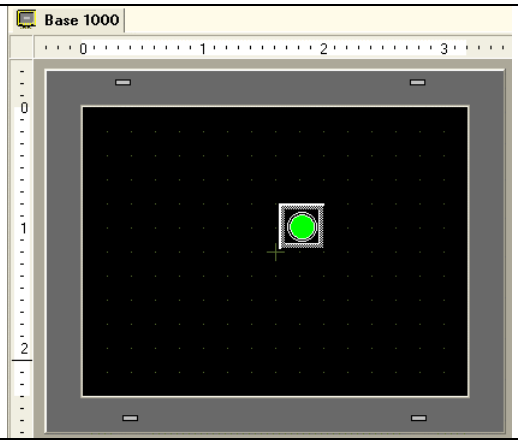
Convert the data to GP-Pro EX. The picture of the Lamp will not appear even if you turn on the trigger bit of the [Picture Display], which is the part for an L Tag after conversion, without changing settings.

To display it on GP-Pro EX, replace the Lamp part with a picture.

This section introduces you how to import a bitmap data as a picture of a switch.

How to replace a part to a draw with GP-Pro EX

Open the GP-Pro EX screen on which a part is placed.	
To make a bitmap file, copy it to any paint application by using the print screen feature of the PC.	
Cut the “Lamp” part from the image and save it as a bitmap file. (The data types that GP-Pro EX can load are as follows; *.bmp, *.jpeg, *.jpg, *.jpe, *.jfif, *.dpd) We recommend you to keep its size to the same as the part.	

Delete the part on GP-Pro EX and place the image file instead. To place the image data, select the [Draw] menu → [Image Placement]. Select the image data and click the [Open] button to upload the image data.	
Delete the “Lamp” part placed already on the screen and re-place the uploaded image on the position of the Lamp	
It looks the same as before.	

18. Compatibility of MRK files and CPW files

Library files (CPW files) and Mark Library files (MRK files) cannot be converted with the Project Converter directly.

To use them by converting with GP-Pro EX, please follow the conversion procedures.

File Type	How to Convert
Library file (CPW file)	Place a Library file to convert on the base screen of GP-PRO/PBIII and convert it with the Project Converter.
Mark Library file (MRK file)	Place a Mark Library file to convert on the mark screen of GP-PRO/PBIII and convert it with the Project Converter.

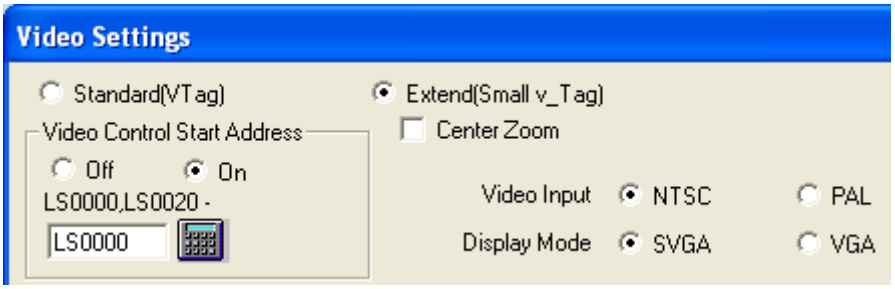
19. Compatibility of VM Unit Settings

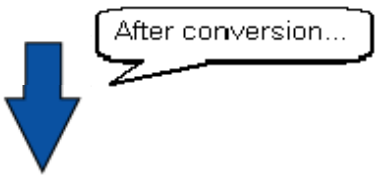
The GP3000 series supports only the Extend mode of Video Window Control (Standard mode/Extend mode) which each GP2000/77R/70 series supports. Each Settings of VM Unit will be converted as follows.

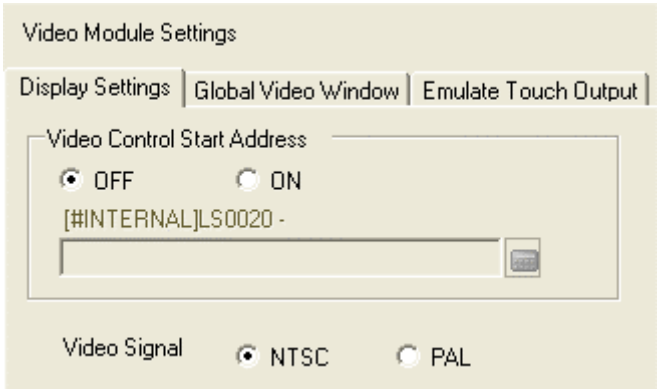
	Before Conversion	After Conversion	
System Settings	Standard mode, Extend mode	VM Unit Settings (Standard mode deleted)	→ **Details**
Base Screen	V Tag, v Tag	VM Unit Display (V Tag deleted)	→ **Details**
Video Screen	Video Screen	VM Unit Window	→ **Details**

System Settings

Only the Extend mode will be converted (Center Zoom and Display Mode will not be reflected as they are the functions related to the Standard mode). If Video Control Start Address is set to LS0000, it'll be set as [OFF], and if LS0020 or after, it'll be converted without change.



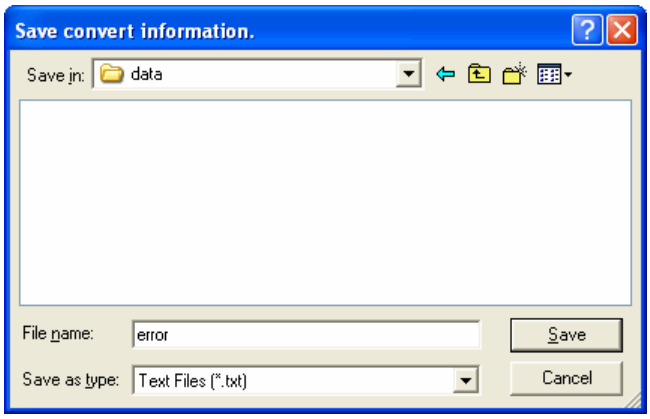




Base Screen

A small v Tag will be converted to a VM Unit Display of parts. The Setting contents will not be changed. In case that the Standard mode on System Settings is selected, even if you place a small v Tag, it will not be converted and will be displayed as an error message in the item of Text Output after conversion.

If you save with ”Save Convert Information” which is displayed after operating project converter....



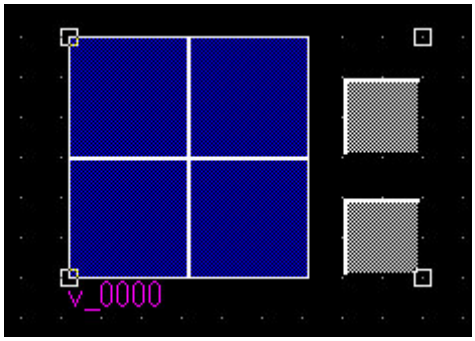
The error message as below will be output.

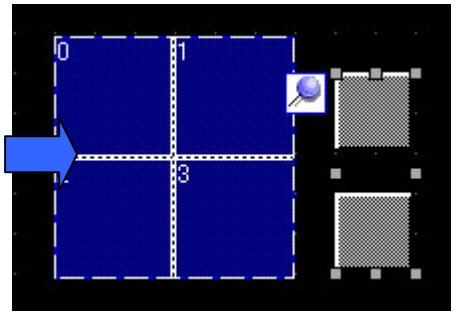
```
Converted Popup Keypad Edit(Text Landscape) -> Keypad Screen00009
Converted Popup Keypad Edit(Dec Portrait) -> Keypad Screen00010
Converted Popup Keypad Edit(Hex Portrait) -> Keypad Screen00011
Converted Popup Keypad Edit(Text Portrait) -> Keypad Screen00012
B00001 : v Tag[v_0000] (80,60) (543,353) Don't convert v tag.
Did not convert it so that system setting became a standard mode.
```

Video Screen

The Video Screen will be converted to VM Unit Window in Common Settings and T Tag on Video Screen will be converted to Video Switch.

VM Unit Display will be converted before all of the switches, and if it is grouped, it’ll be out of the group.





20. Compatibility of Extended SIO Script

GP-PRO/PBIII's [Extended SIO Script] is converted to GP-Pro EX's [Extended Script] in the [Script Settings].

The contents of the [Extended SIO Script] are converted as they are. However, the Extended SIO Script's assignment to COM ports may vary or may be cancelled after conversion depending on the configuration of the COM ports.

Select your interface pattern set with GP-PRO/PBIII and refer to its conversion pattern.

Interface setting pattern table when using the GP2000 series' Extended SIO Script			
COM1	COM2	LAN Interface	Conversion Pattern
PLC *1 (RS-232C)	Extended SIO Script (RS-232C)	Unused	Pattern 1
PLC *1 (RS-422)	Extended SIO Script (RS-232C)	Unused	Pattern 2
Extended SIO Script (RS-422)	PLC *1 (RS-232C)	Unused	Pattern 3
Unused	Extended SIO Script (RS-232C)	PLC	Pattern 4
Extended SIO Script (RS-422)	Unused	PLC	Pattern 5

*1 indicates that a PLC type is selected. Temperature controllers, inverters are included.

Reference: The interface, on the GP3000 series, compatible with RS-232C is COM1. If the Extended SIO Script cannot be assigned to the COM1 of RS-232C, the assignment is cancelled. For reference, the table of COM1 port of the GP series is shown below.

	COM1	COM2
GP3**0 Series	RS-232C/485 (422)	RS-485 (422)
GP3302B	RS-232C	RS-485 (422)
GP3200 Series	RS-232C/485 (422)	-

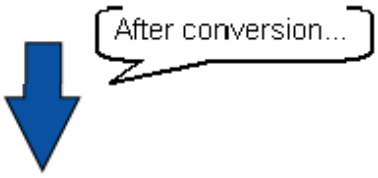
The GP3**0 series includes GP3750, GP3600, GP3500, GP3400, and GP3300.

Conversion Pattern

Pattern 1

After conversion, the PLC type will be assigned to the COM1 port and the assignment of the Extended SIO Script will be canceled.

GP-PRO/PBIII			
Interface	COM1	COM2	LAN
Communication type	RS-232C	RS-232C	-
Usage	PLC protocol	Extended SIO Script	-



(- Unused/Unsupported)

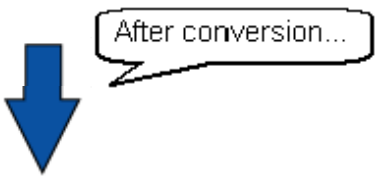
GP-Pro EX			
Interface	COM1	COM2	LAN
Communication type	RS-232C	RS-422/485	-
Usage	PLC protocol	-(*2)	-

*2: For the same use as before, re-assign the [Extended Script] to COM2 in GP-Pro EX's [System Settings Window] → [Peripheral Settings] → [Script Settings]. For the RS-232C connection on the COM2 port, however, conversion of RS-232C/422 is required. For more information, contact the nearest Pro-face office.

Pattern 2

After conversion, the PLC type will be assigned to the COM1 port and the assignment of the Extended SIO Script will be canceled.

GP-PRO/PBIII			
Interface	COM1	COM2	LAN
Communication type	RS-422	RS-232C	-
Usage	PLC protocol	Extended SIO Script	-



(- Unused/Unsupported)

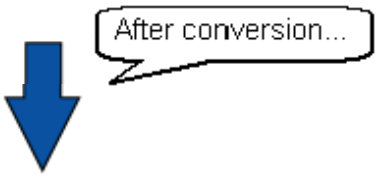
GP-Pro EX			
Interface	COM1	COM2	LAN
Communication type	RS-422	RS-422/485	-
Usage	PLC protocol	- (*3)	-

*3: For the same use as before, re-assign the [Extended Script] to COM2 in GP-Pro EX's [System Settings Window] → [Peripheral Settings] → [Script Settings]. For the RS-232C connection on the COM2 port, however, conversion of RS-232C/422 is required. For more information, contact the nearest Pro-face office.

Pattern 3

After conversion, the PLC type set to COM2 will be assigned to COM1 and the assignment of the Extended SIO Script will be canceled.

GP-PRO/PBIII			
Interface	COM1	COM2	LAN
Communication type	RS-422C	RS-232C	-
Usage	Extended SIO Script	PLC protocol	-



(- Unused/Unsupported)

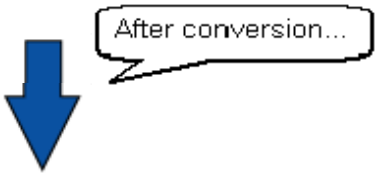
GP-Pro EX			
Interface	COM1	COM2	LAN
Communication type	RS-232C	-	-
Usage	PLC protocol	- (*4)	-

*4: For the same use as before, re-assign the [Extended Script] to COM2 in GP-Pro EX's [System Settings Window] → [Peripheral Settings] → [Script Settings]. Conversion on the COM2 port of RS-232C422 is required. For more information, contact the nearest Pro-face office.

Pattern 4

After conversion, the [Extended SIO Script] set in COM2 will be assigned to COM2. Any change of settings is unnecessary.

GP-PRO/PBIII			
Interface	COM1	COM2	LAN
Communication type	-	RS-232C	10BASE-T
Usage	-	Extended SIO Script	PLC protocol



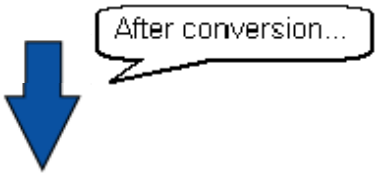
(- Unused/Unsupported)

GP-Pro EX			
Interface	COM1	COM2	LAN
Communication type	RS-232C	-	10BASE-T
Usage	Extended SIO Script	-	PLC protocol

Pattern 5

After conversion, the assignment of the [Extended SIO Script] will be cancelled.

GP-PRO/PBIII			
Interface	COM1	COM2	LAN
Communication type	RS-422C	-	10BASE-T
Usage	Extended SIO Script	-	PLC protocol



(- Unused/Unsupported)

GP-Pro EX			
Interface	COM1	COM2	LAN
Communication type	-	-	10BASE-T
Usage	- (*5)	-	PLC protocol

*5: For the same use as before, re-assign the [Extended Script] to COM2 in GP-Pro EX's [System Settings Window] → [Peripheral Settings] → [Script Settings]. Rewiring is also required because the pinout of the COM1 is different. For more information, contact the nearest Pro-face office.

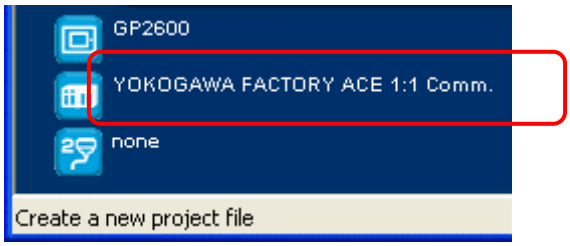
21. Compatibility of Sound Data

After converting the sound data via Project Converter, you can use it with the GP3000/ST3000 series, which you used with the GP2000/77R series. However, the playback may sound differently from the data of the GP2000/77R series because the format of the data is different. For the differences, refer to the following table.

		GP-PRO/PBIII	GP-Pro EX
Audio Type	Sound source	PCM	PCM
	Bit length	16bit	16bit
	Frequency	11kHz	8kHz
	Playback	Monaural	Monaural
	Data type	WAV format	WAV format
Output destination		\data	\data
File name		ZO*****.BIN (*****; file number)	O*****.BIN (*****; file number)

22. Compatibility of Device Monitor

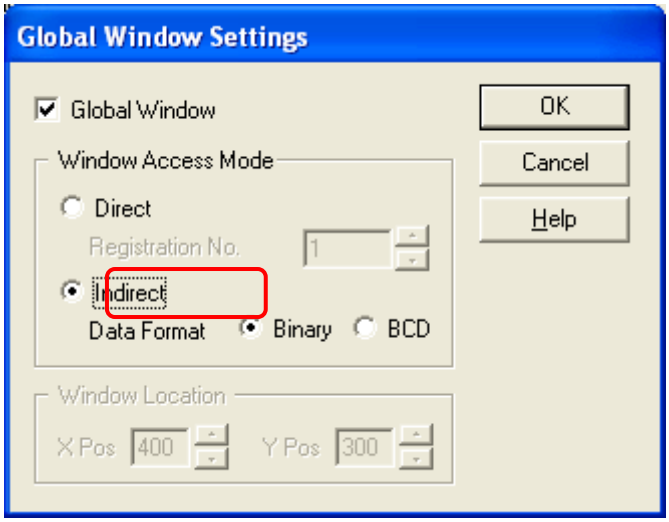
As for the “YOKOGAWA FACTORY ACE 1:1 Communication”, if you have set the Device Monitor feature, the feature will be deleted when conversion.



Word devices cannot be displayed in the binary, which is possible with the GP2000 series.

Even though the Device Monitor feature has been set, the feature will be deleted when converting a project file if the Global Window is not set or its Window Access Mode is set to “Direct”.

Confirm that the Global Window’s access mode is set to “Indirect” before conversion.



The Device Monitor feature is supported by GP-Pro EX Ver.2.00 or higher.

23. Compatibility of J Tag and R Tag

GP-PRO/PBIII's J Tag and R Tag are converted to GP-Pro EX's [Picture Display] part –[Move Display] feature.

Basically, the operation of GP-Pro EX's [Picture Display] part is the same as that of GP-PRO/PBIII's J Tag and R Tag, however, they may differ depending on the contents set in GP-PRO/PBIII.

Cases that J Tag and R Tag are not converted	
The case either one J Tag or R Tag is placed on the screen	Pattern 1
The case multiple J Tags with the same Rail number are placed on the screen	Pattern 2

Pattern 1: The case either one J Tag or R Tag is placed on the screen

Example case 1

If there is only one J Tag on a base screen, it will not be converted. The same applies to R Tag.

GP-PRO/PBIII	GP-Pro EX
	

Example case 2

If a J Tag with the Rail number 1 and an R Tag with the Rail number 0, of its display positions specified, are on a base screen, they will not be converted.

GP-PRO/PBIII	GP-Pro EX
	

Pattern 2: The case multiple J Tags with the same Rail number are placed on the screen

If there are two or more J Tags with the same Rail number, the tag that has the smallest JIS code will be converted. Other J Tags will not be converted.

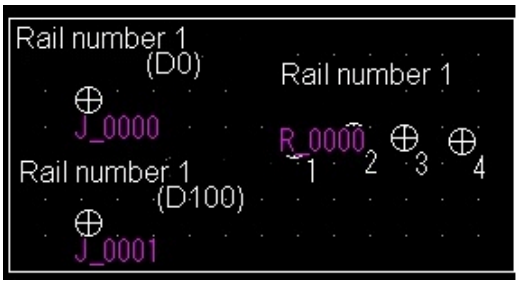
Example case

Place 2 J Tags with the Rail number 1 on a base screen. On the screen, the following tags have been placed.

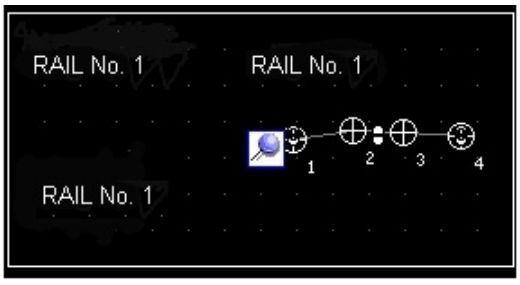
Tag	Tag name	Address	Rail number	Convertible
J Tag	J_0000	D0	1	Yes
	J_0001	D100	1	No
R Tag	R_0000	-	1	Yes

If you have set as above, “J_0000” and “R_0000” will be converted into one part.

GP-PRO/PBIII



GP-Pro EX



The following is the settings of the [Picture Display] after conversion to GP-Pro EX.

GP-Pro EX