Chapter 12

WinGP

WinGP
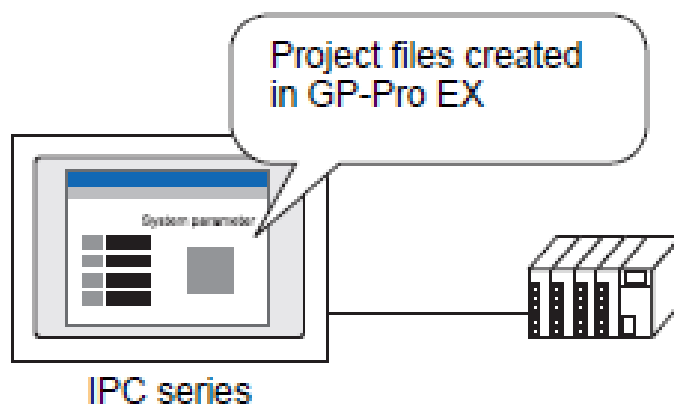
Instruction

WinGP

WinGP is an application(*1) that can perform the functions of GP3000 on an industrial panel computer (IPC Series) manufactured by Digital Electronics Corporation. WinGP enables operations of the GP3000 series on an IPC and interaction with software applications on the IPC.

Project files created in GP-Pro EX

IPC series

For example, HMI of PC-controlled equipment such as precision machines can be easily created with screen creation software, GP-Pro EX. And WinGP enables various functions such as control, operation, and history management on an IPC because it enables the same processing as GP3000 series.

Using WinGP, you can use the IPC as a simple SCADA (Supervisory Control And Data Acquisition) system.

See → GP-Pro EX Reference Manual 38.1.1 "What is WinGP?"
See → GP-Pro EX Reference Manual 38.1.3 "Differences between IPC and GP"

NOTE

- To use WinGP on an IPC or a computer (PC/AT compatible), a separately sold license is required.
- Some functions, mainly functions which depend on hardware, cannot be performed by an IPC.

  See →   GP-Pro EX Reference Manual
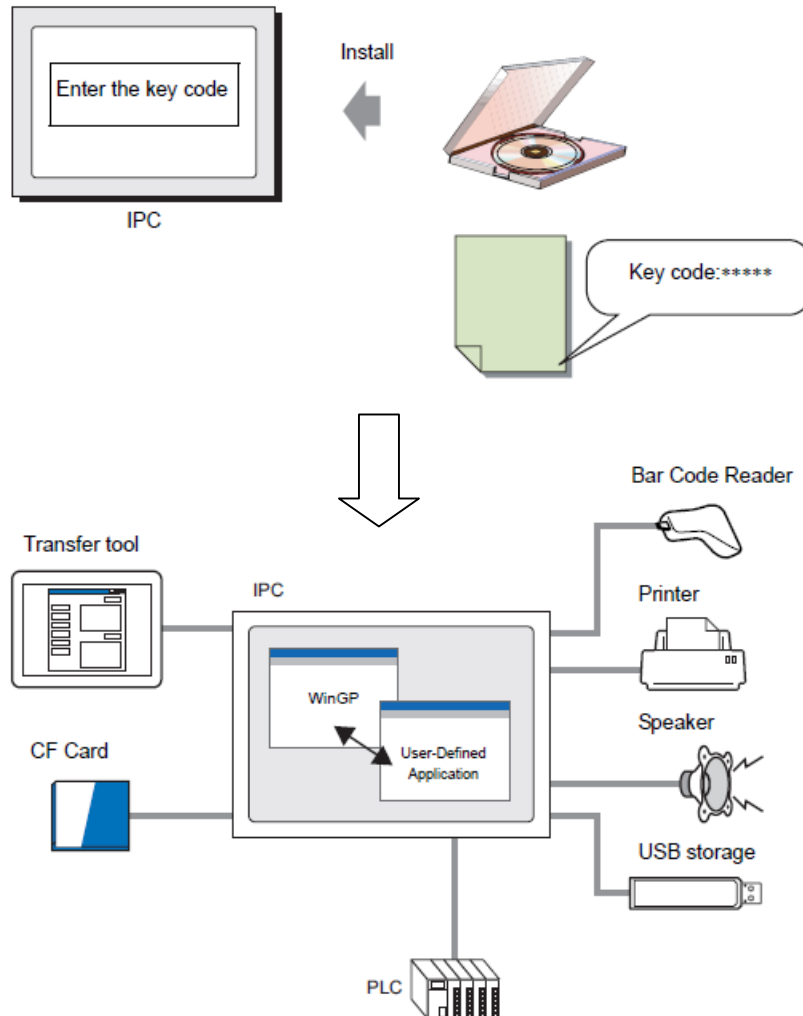   38.1.3 Differences between IPC and GP

![Instruction] Settings on IPC

Insert CD-ROM of GP-Pro EX in the CD-ROM drive. Enter a key code, sold separately, and install WinGP on an IPC.

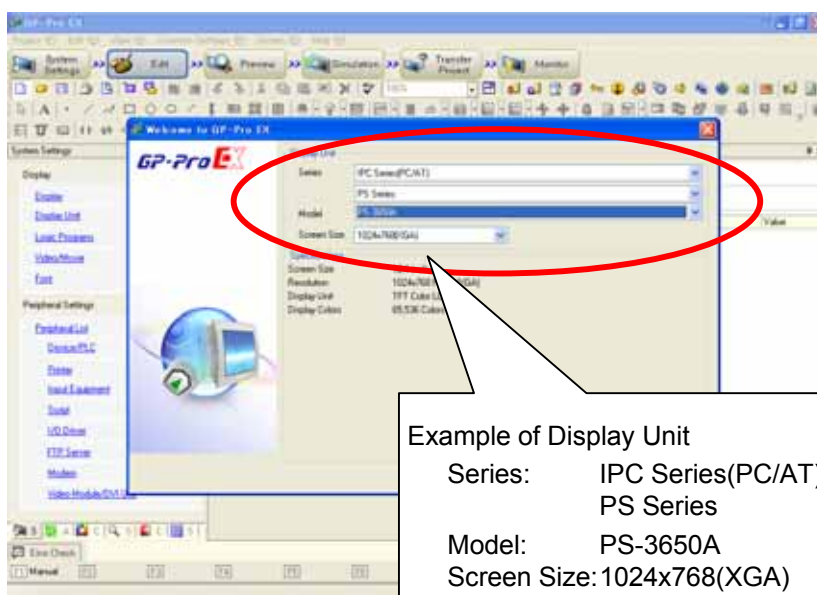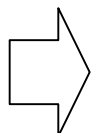See → GP-Pro EX Reference Manual 38.3.2 "Install/Uninstall"

NOTE

- To create screens on the same IPC, install the screen creation software, GP-Pro EX as well.

- If you use Pro-Server EX at the same time, make sure to use Pro-Server EX Version 1.10.
  If you already use Pro-Server EX Version 1.0, please upgrade it to Version 1.10, otherwise you cannot use WinGP at the same time.

  See → GP-Pro EX Reference Manual 38.3 "Development Process"

✓Practice | Settings on PC for Screen Creation

1) Start up GP-Pro EX and create screen data for the IPC series.

Example of Display Unit
   Series: IPC Series(PC/AT)
                  PS Series
   Model: PS-3650A
   Screen Size:1024x768(XGA)

2) Transfer the screen data to the IPC series.

NOTE

1. Operations for the IP series on GP-Pro EX such as screen creation and data transfer are the same as operations for the GP3000 series.
    However, you need to start up WinGP on the IPC before transferring screen data.
2. Some functions, mainly functions which depend on hardware, cannot be performed by a IPC.

   See → GP-Pro EX Reference Manual
          38.1.3 Differences between IPC and GP
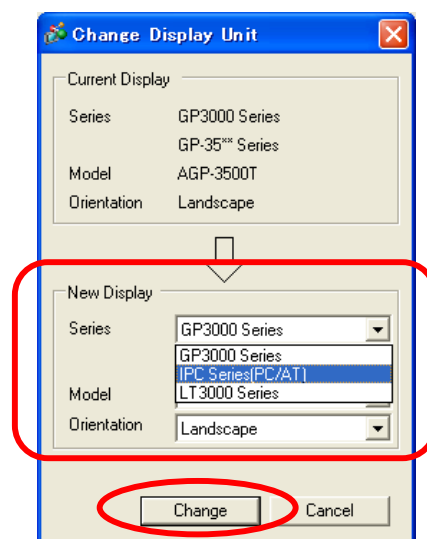
⭐ **One Point**

How to change display units

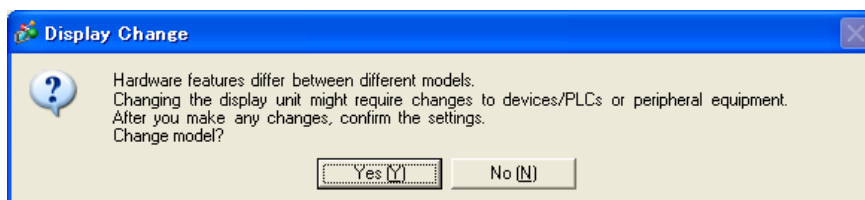1) Open the created project file and select "Display" in the System Settings window.

2) Click [Change Display Unit] to change the display type to the IPC series.

3) Specify [Series] and [Model] of the new display. Click [Change].*

* If you change the display type between the GP series and the IPC series, the following confirmation message will appear.

Instruction

Acquire WinGP Information or Operate WinGP from User Application

API allows you to acquire WinGP information or operate WinGP from user applications.
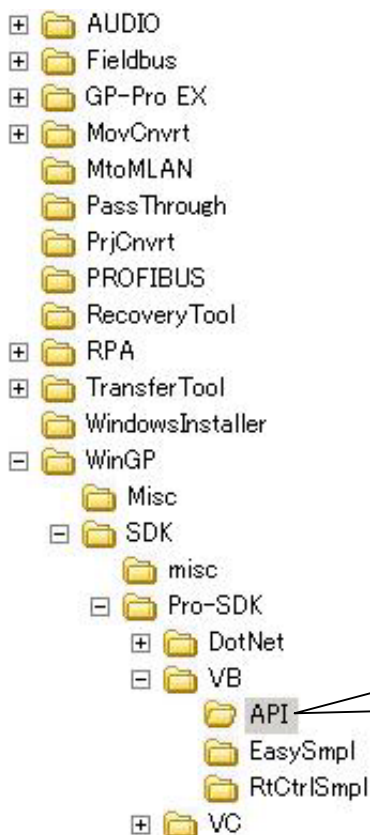
> See → GP-Pro EX Reference Manual
>   38.5 "Retrieve WinGP information or Operate WinGP from user application"

1) Copy the header file, which includes the declaration statement in it, from the CD-ROM. The following procedure is an example for Visual Basic.

   \WinGP\SDK\Pro-SDK\VB\API

2) Start Visual Basic. Select one or both of the files in the above mentioned folder as a standard module(s). *
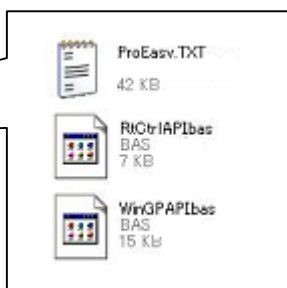

* Each API has different functions which are available. Select an API according to necessary functions.

WinGPAPI: is a device access API, which is used to read or write internal data of a device/PLC or WinGP.

RtCtrlAPI: is a handling API, which is used to acquire the WinGP status or to change the WinGP settings.

See →   GP-Pro EX Reference Manual 38.9 "API Function List"

12 - 5

3) Develop a program according to the programming language specifications. The following sample includes the settings required for the API, which are circled.

```
(General)                                          ▼   (Declarations)

    End If
    Error: Exit Sub
    End Sub

    Private Sub Command3_Click()
    Dim i, j As Integer
    Dim iResult As Long

    For i = 0 To 9

     iResult = ReadDevice16("#WinGP", "USR2500" & i, j, 1)
     Text1(i).Text = j
    Next

    If iResult Then
        Dim sErrMsg As String * 512
        Dim iMsgResult As Long
        iMsgResult = EasyLoadErrorMessageEx(iResult, sErrMsg)
        MsgBox (sErrMsg)
    End If

    End Sub

    Private Sub Command4_Click()
    Dim i, j, k As Integer
    Dim iResult As Long

    k = 0

    For i = 0 To 9

      j = Text1(i).Text
      If j < 30 Or j > 450 Then
        k = 1
      End If

    Next
```
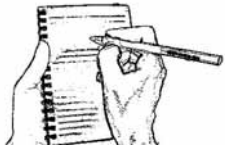
* For the details of each function, see GP-Pro EX Reference Manual. See →
   GP-Pro EX Reference Manual 38.9 "API Function List"

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