Pro-face ®

INDEX

Techniques for GP3000 Series

SECTION

01 Input set data using a USB flash drive

Solution Rating

⭐⭐⭐⭐✩ **90%**

Q QUESTION«

Do you think you have to build a network to distribute operating instructions in electric data?

A Pro-face's solution«

The GP unit with a USB port allows you to distribute operating instructions using a commercially available USB flash drive without building a network.

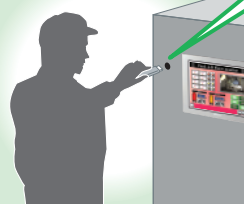## Pro-face offers DATA INPUT VIA A USB FLASH DRIVE

Production site

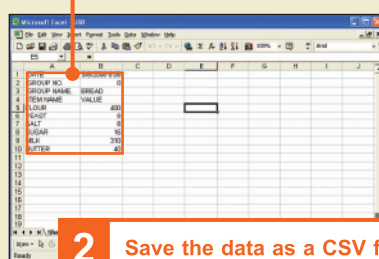Install a USB Front Cable Port on your operation cabinet. You no longer need to open the panel door to connect a USB drive to your GP unit.

USB Front Cable
(CA5-USBEXT-01) <Sold separately>   USB flash drive

☞ Easy operation

Distributing recipe data using a USB flash drive

1 Create recipe data on an Excel sheet.

Start GP-Pro EX

2 Save the data as a CSV file in a USB flash drive.
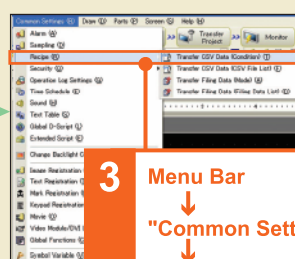
3 Menu Bar

↓

"Common Settings"

↓

"Recipe"

↓

"Transfer CSV Data (Condition) "

4 Check "Transfer CSV Data" and set "Action Mode," "Write Mode," and "Language".
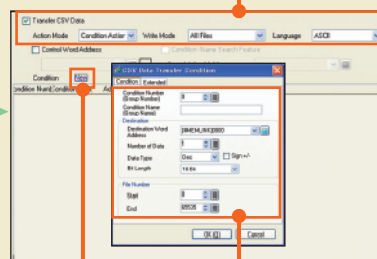
5 Click "New".

6 Set the CSV data transfer conditions.

7 Menu Bar

↓

"Parts"

↓

"Special Data Display"

↓

"Data Transmission"

Beep

Transfer the screen data to the GP

PLC

D100	400
D101	8
D102	8
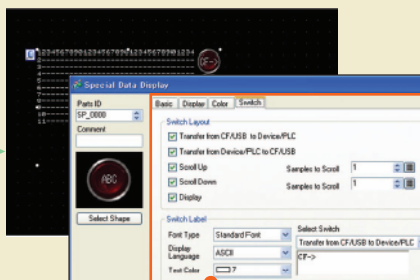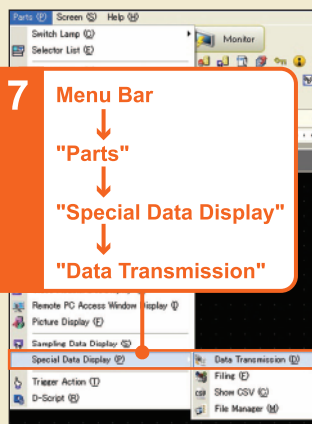
8 Double-click the placed Special Data Display, and configure the display settings, color settings, and switch settings.

SECTION 02

Remotely browse documents in an office on a HMI unit

Solution Rating ★★★★½ **90%**

Q QUESTION《《

Do you go to the office to get your PC when debugging is required or a problem occurs?

A Pro-face's solution《《

The Remote PC Access feature allows you to access your PC in the office from a GP unit at the site. You can reduce downtime by remotely monitoring a ladder tool or manual from the site.

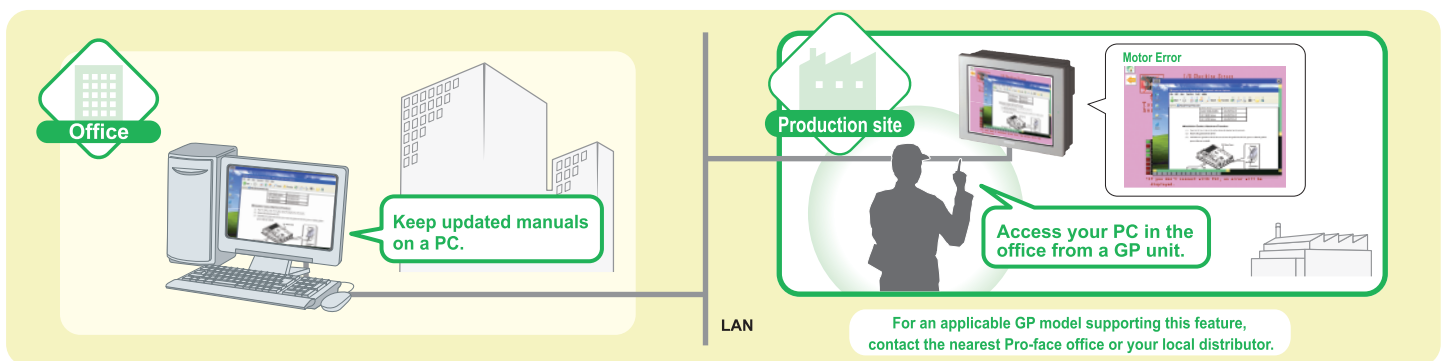## Pro-face offers DATA REFERENCE FROM A GP UNIT

Office

Keep updated manuals on a PC.

LAN

Production site

Motor Error

Access your PC in the office from a GP unit.

For an applicable GP model supporting this feature, contact the nearest Pro-face office or your local distributor.

☞ Easy operation

Displaying a PC screen on the GP unit

3 Uncheck "Video Hook Driver".

Start GP-Pro EX

2 Select "Properties".

Admin Properties
Properties
Online Help
Home Page
Add New Client
Kill All Clients
List All Clients
About WinVNC
Close VNC

1 Right-click the Ultra VNC icon.

WinVNC: Current User Properties
Server Screen Updates Handling
☑ Poll Full Screen (Ultra Fast)
☑ Poll Foreground Window   ☐ Poll Console Windows Only
☐ Poll Window Under Cursor ☑ Poll On Event Only
☑ System HookDll
☐ Video Hook Driver   Check the Video Hook Driver
☐ Low Accuracy (Turbo Speed)
Single Window Sharing
☐ Share only the Server Window Named :
OK Apply Cancel

4 Menu Bar ↓ "Parts" ↓ "Remote PC Access Window Display"

6 Open the "Switch" tab.

5 Configure the basic settings.

7 Check "Use Remote PC Access Window Switch" and configure the switch settings.

Transfer the screen data to GP

To use the Remote PC Access feature, Purchase of a separate license is required.
Ultra VNC must be installed on your PC. It is included in the GP-Pro EX installation CD.

SECTION 03

Reduce serial ports on a PLC for connection with multiple HMI units

Solution Rating ★★★★★ 100%

Q QUESTION «««

Are you using two or more serial ports to connect multiple HMI units to a PLC?

A Pro-face's solution «««

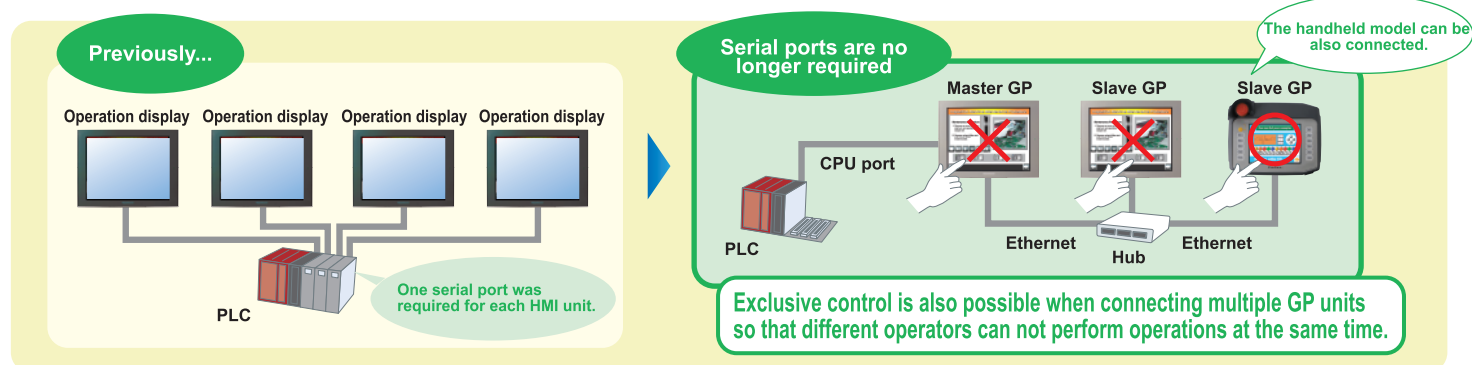Pro-face allows you to connect two or more GP units directly to a single port on a CPU unit. These GPs can be connected to each other via an Ethernet network.

Pro-face offers LOW-COST ETHERNET CONNECTION

Previously...

Operation display Operation display Operation display Operation display

PLC

One serial port was required for each HMI unit.

Serial ports are no longer required

The handheld model can be also connected.

Master GP Slave GP Slave GP

CPU port

PLC

Ethernet Ethernet
Hub

Exclusive control is also possible when connecting multiple GP units so that different operators can not perform operations at the same time.

☞ Easy operation

Ethernet Multilink

1 Menu Bar
↓
"Project"
↓
"System Settings"

2 Select "Display Unit".

3 Open the "Extended Settings" tab.

4 Check "Enable Ethernet Multilink" and select the "Action Mode".

Exclusive Control

1 Menu Bar
↓
"Project"
↓
"System Settings"

2 Select "Display Unit".

3 Open the "Extended Settings" tab.

4 Check "Enable Operation Lock" and "Lock Screen Touch".
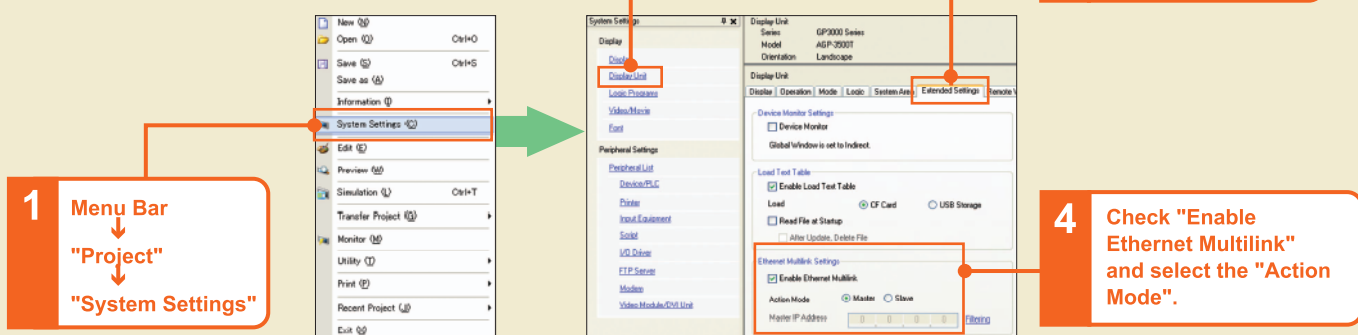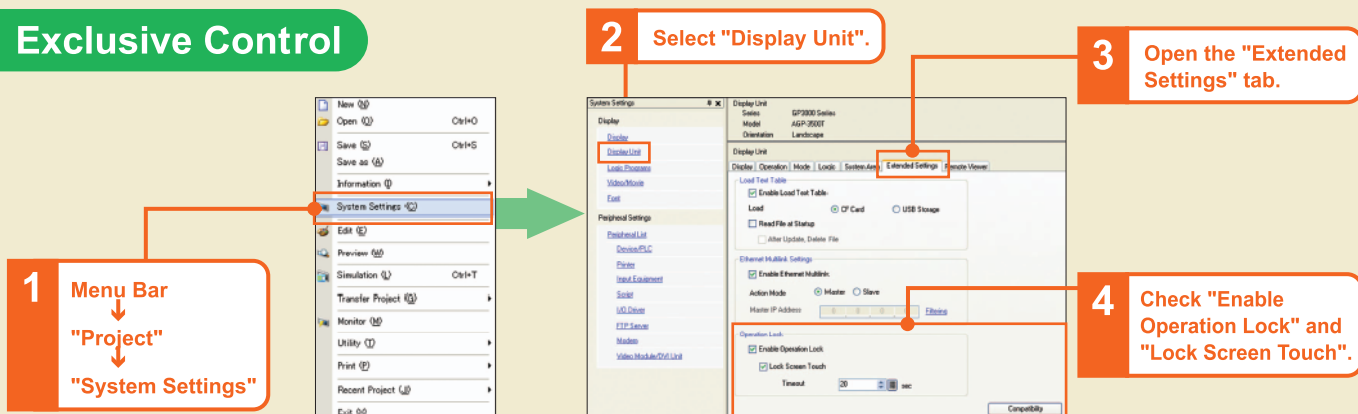
SECTION 04

Reduce serial ports on a PLC with HMI unit's interfaces for connection with different devices

Solution Rating ★★★★⯪ 90%

Q QUESTION «

Are you planning to purchase an additional communication unit to connect a PC or other device to a PLC?
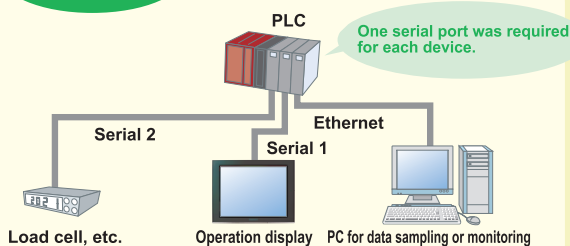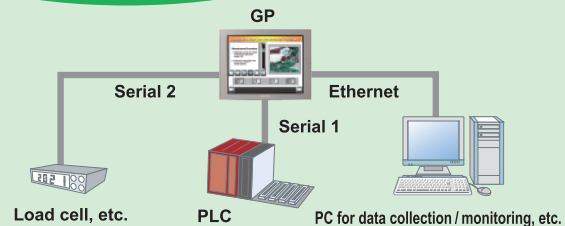
A Pro-face's solution «

Pro-face's GP unit enables connection with PC and various devices using its interfaces.

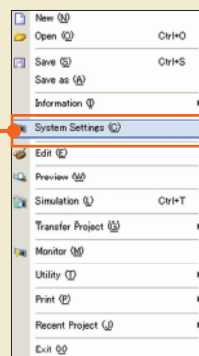## Pro-face offers UNIFORMED DATA HANDLING ON A GP UNIT

Previously...

PLC

One serial port was required for each device.

Serial 2
Ethernet
Serial 1

Load cell, etc. Operation display PC for data sampling or monitoring

A variety of devices can now be connected to the interfaces of a GP.

GP

Serial 2 Ethernet
Serial 1

Load cell, etc. PLC PC for data collection / monitoring, etc.

☞ Easy operation

Multi-protocol

2 Select "Device/PLC".

3 Click "Add Device/PLC".

1 Menu Bar
↓
"Project"
↓
"System Settings"

New (N)
Open (O)   Ctrl+O
Save (S)   Ctrl+S
Save as (A)
Information (I)
System Settings (C)
Edit (E)
Preview (W)
Simulation (L)   Ctrl+T
Transfer Project (A)
Monitor (M)
Utility (T)
Print (P)
Recent Project (J)
Exit (X)

System Settings
Display
Display
Display Unit
Logic Programs
Video/Movie
Font
Peripheral Settings
Peripheral List
Device/PLC
Printer
Input Equipment
Script
I/O Driver
FTP Server
Modem
Video Module/DVI I

Display Unit
Series   GP3000 Series
Model   AGP-3500T
Orientation Landscape
Device/PLC
Add Device/PLC
Device/PLC 1
Summary
Manufacture
Text Data Mod
Communication
SIO Type
Speed
Data Length
Parity
Stop Bit
Flow Contr
Timeout
Retry
Wait To Se

Add Device/PLC 2
Settings
Device/PLC
Manufacture Mitsubishi Electric Corporation
Series   A Series Computer Link
Allowable Number of Devices/PLCs 16
Connection Method
Port   COM2
Refer to the manual of this Device/PLC
Device Information
Add   Cancel

4 Configure the connecting device settings.

5 Open the "Device/PLC2" tab.

Device/PLC
Device/PLC 2
Add Device/PLC   Delete Device/PLC
Summary   Change Device/PLC
Manufacturer Mitsubishi Electric Corporation Series A Series Computer Link Port COM2
Text Data Mode 2 Change
Communication Settings
SIO Type   RS232C   RS422/485(2wire)   RS422/485(4wire)
Speed   19200
Data Length   7   8
Parity   NONE   EVEN   ODD
Stop Bit   1   2
Flow Control NONE   ER(DTR/CTS)   XON/XOFF
Timeout   3   (sec)
Retry   2
Wait To Send 0   (ms)   Default
Device-Specific Settings
Allowable Number of Devices/PLCs 16
  1 PLC2   Station No.=0,PC No.=255
  2 PLC3   Station No.=0,PC No.=255

6 Click the "Add" icon.

Individual Devic...
PLC2
Station No. 0
PC No.   255
       Default
OK (O)   Cancel

7 Configure the settings by device.

Using RS-422 connection, you can connect up to 16 devices. With an Ethernet-supported model, up to 32 devices can be connected. (The number of devices that can be connected is depending on the display model.)

SECTION 05
Monitor and operate HMI screens at a production site from the office
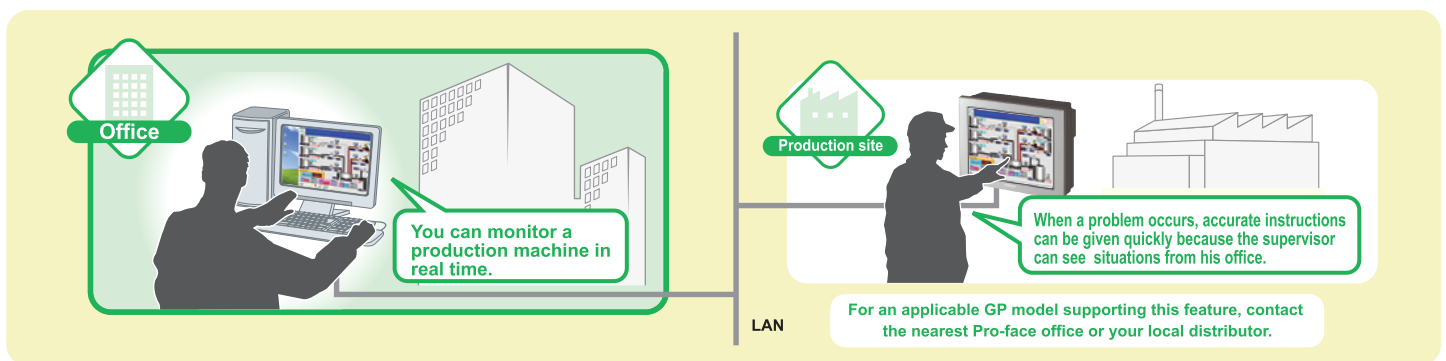
Q QUESTION «««

Do you think it is difficult for you to set up the remote monitoring functions?
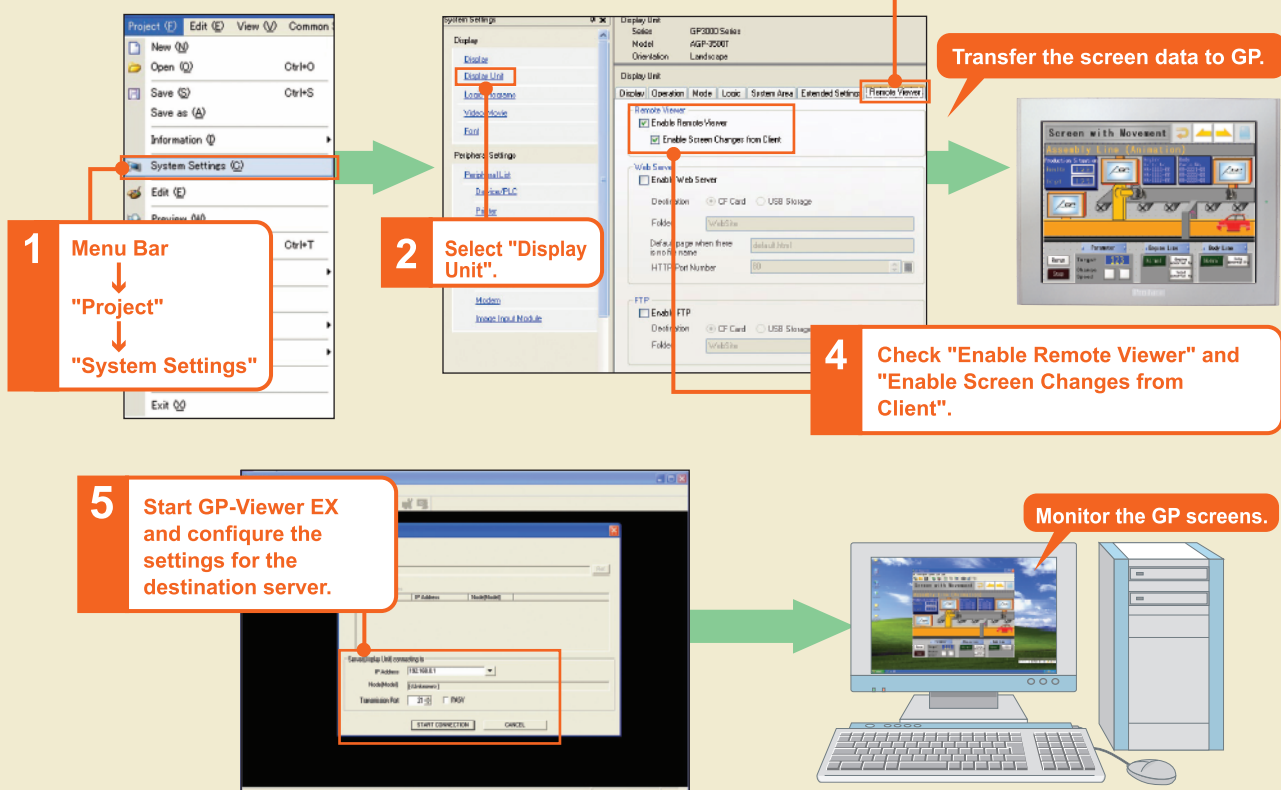
A Pro-face's solution «««

GP-Viewer EX allows you to monitor and operate GP screens at the site remotely from the office in real time.

Pro-face offers REMOTE MAINTENANCE VIA A GP UNIT

Office

You can monitor a production machine in real time.

Production site

When a problem occurs, accurate instructions can be given quickly because the supervisor can see situations from his office.

LAN

For an applicable GP model supporting this feature, contact the nearest Pro-face office or your local distributor.

☞ Easy operation

Data display and operation

3 Open the "Remote Viewer" tab.

Transfer the screen data to GP.

1 Menu Bar
"Project"
"System Settings"

2 Select "Display Unit".

4 Check "Enable Remote Viewer" and "Enable Screen Changes from Client".

5 Start GP-Viewer EX and configure the settings for the destination server.

Monitor the GP screens.

To use GP-Viewer EX, purchase of a separate license is required.