Pro-face®

With GP-Pro EX

INDEX

■ For Production Management Personnel

Automated Process Changeover Data Collection Master Edition

BF/IP0812-TEQ_E06A-01

SECTION 01

Distribute operating instructions using USB flash drive you have

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Q QUESTION ≪≪

Do you think that you need to build a network in order to distribute operating instructions as data?

A Pro-face's solution ≪≪

GP units with USB, allowing operating instructions to be distributed using only an off-the-shelf USB flash drive. What's more, data can also be distributed by operating a GP unit screen.

Pro-face offers AUTOMATIC DISTRIBUTION VIA USB FLASH DRIVE

Production site

USB front cable
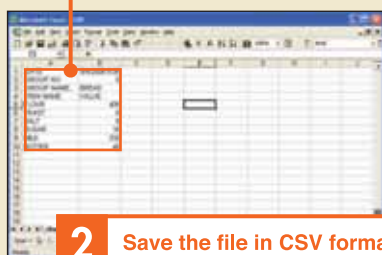(CA5-USBEXT-01, sold separately)　　　　USB flash drive

Using a USB front cable means there is no need to open any panels.

☞ Easy setting procedures
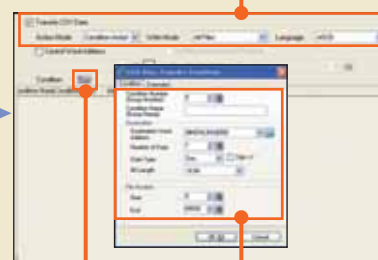
Distributing Recipes via USB

1 Create recipe data in Microsoft Excel.

2 Save the file in CSV format on a USB flash drive.

3 Menu Bar
↓
"Common Settings"
↓
Recipe
↓
"Transfer CSV Data (Condition)"

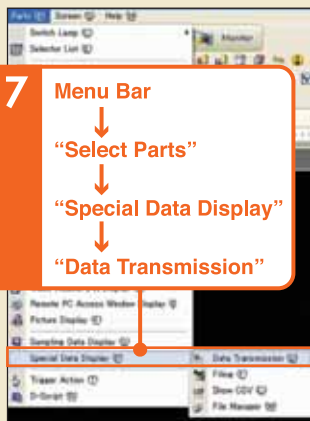**4** Select the Transfer "CSV Data check box", and select an "Action Mode", "Write Mode", and "Language".
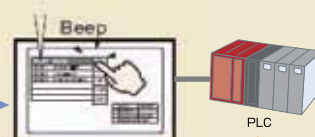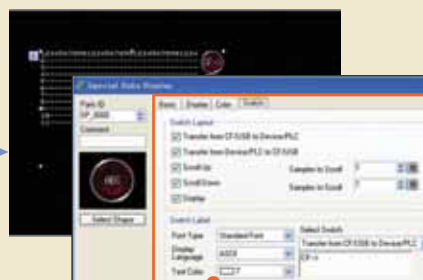
5 Click "New".

6 Set the CSV data transfer conditions.

7 Menu Bar
↓
"Select Parts"
↓
"Special Data Display"
↓
"Data Transmission"

8 Double-click the positioned special data display, and complete the "Display", "Color", and "Switch" settings.

Beep

PLC

D100	400
D101	8
D102	8

SECTION 02

Communicate operating instructions automatically from the office
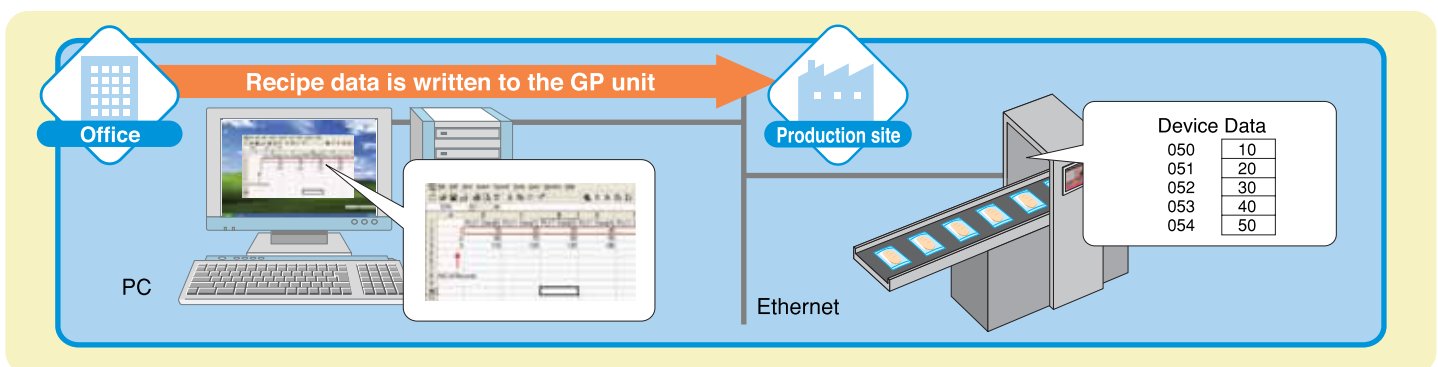
Solution Rating ★★★★½ **90%**

Q QUESTION ⫷

Are your operators making lots of input errors because operating instructions are issued in document format for production sites where plans change frequently?

A Pro-face's solution ⫷

Pro-Server EX communicates operating instructions, production plans, and other data created in the office directly to the production site.

Pro-face offers AUTOMATED OPERATING INSTRUCTIONS

Recipe data is written to the GP unit

Office
PC
Production site
Ethernet

Device Data
050	10
051	20
052	30
053	40
054	50

☞ Easy setting procedures

Distributing Recipes

1 Create and save recipe data in Microsoft Excel.

2 Register symbols.

3 Specify the recipe sheet and the output file.

ExcelAction(A)
Device One-Shot Area(M)
Device Logging Area(L)
Recipe Area(R)
Log Data in GP Area(U)
Special Area(S)
Execution Sequence List(E)
Buttonify Trigger Condition(B)

4 Menu Bar
↓
"ExcelAction"
↓
"Recipe Area"

5 Complete settings in the Action Settings, Record No. Settings and Trigger Condition Settings tabs.

Save and transmit network project.

It is necessary to purchase separate software in order to use Pro-Server EX.

SECTION 03
Collect production data in real time without leaving the office

Solution Rating ★★★★☆ **90%**

Q QUESTION ≪≪

Do you collect data directly from devices even though they are connected to the network?

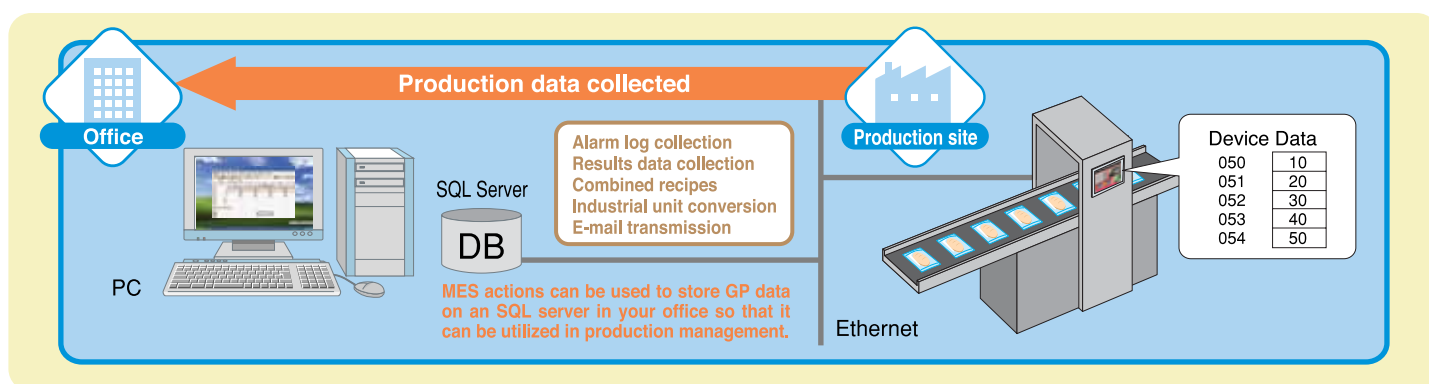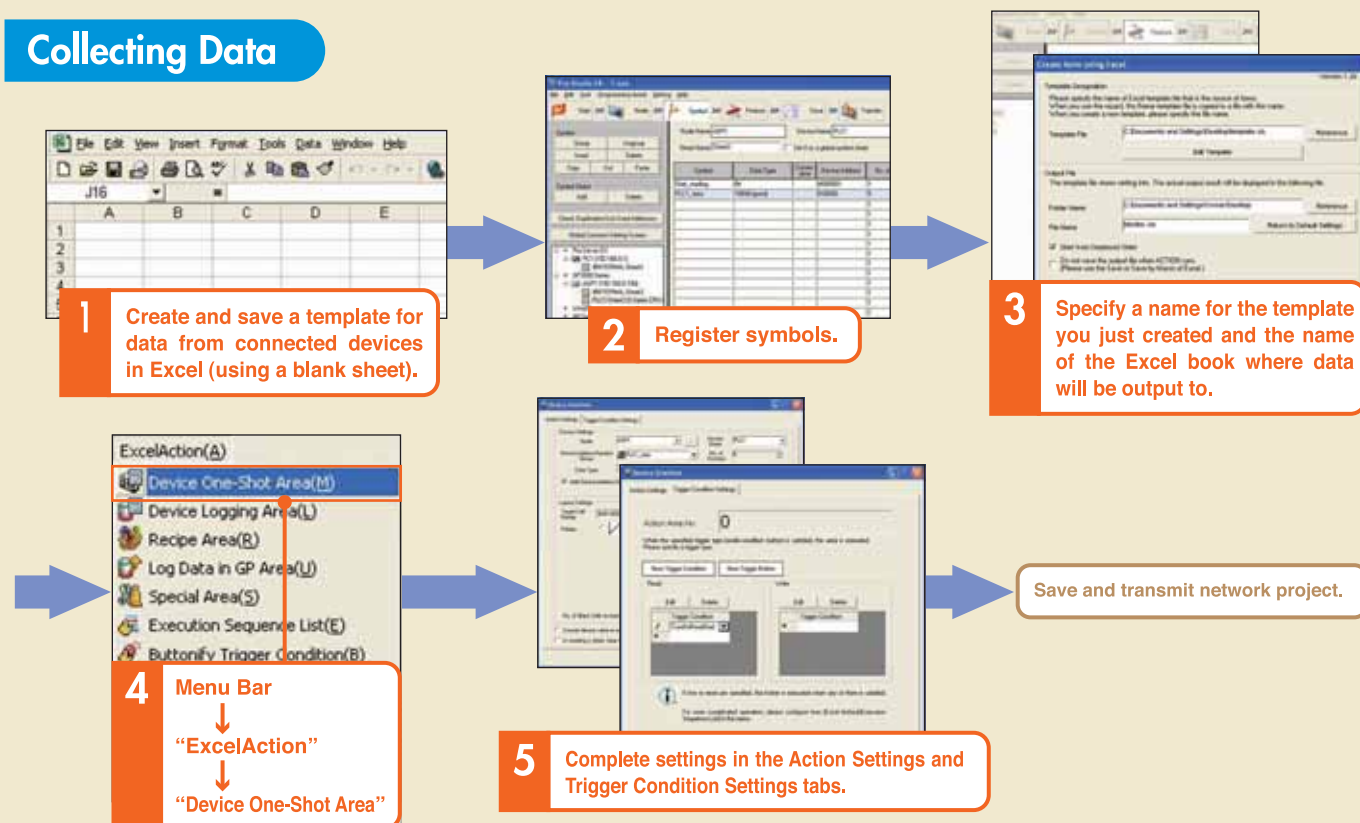## A Pro-face's solution ≪≪

Pro-Server EX automatically collects data from PLCs and other devices in a wide variety of formats. This is useful for real-time production data analysis and other applications.

Pro-face offers AUTOMATED DATA COLLECTION

Production data collected

Office

PC

SQL Server

DB

Alarm log collection
Results data collection
Combined recipes
Industrial unit conversion
E-mail transmission

MES actions can be used to store GP data on an SQL server in your office so that it can be utilized in production management.

Production site

Ethernet

Device Data

050	10
051	20
052	30
053	40
054	50

☞ Easy setting procedures

Collecting Data

1 Create and save a template for data from connected devices in Excel (using a blank sheet).

2 Register symbols.

3 Specify a name for the template you just created and the name of the Excel book where data will be output to.

4 Menu Bar
↓
"ExcelAction"
↓
"Device One-Shot Area"

5 Complete settings in the Action Settings and Trigger Condition Settings tabs.

Save and transmit network project.

It is necessary to purchase separate software in order to use Pro-Server EX.

SECTION 04 Automatically create production status reports

Solution Rating
★★★★★ 100%

Q QUESTION ≪

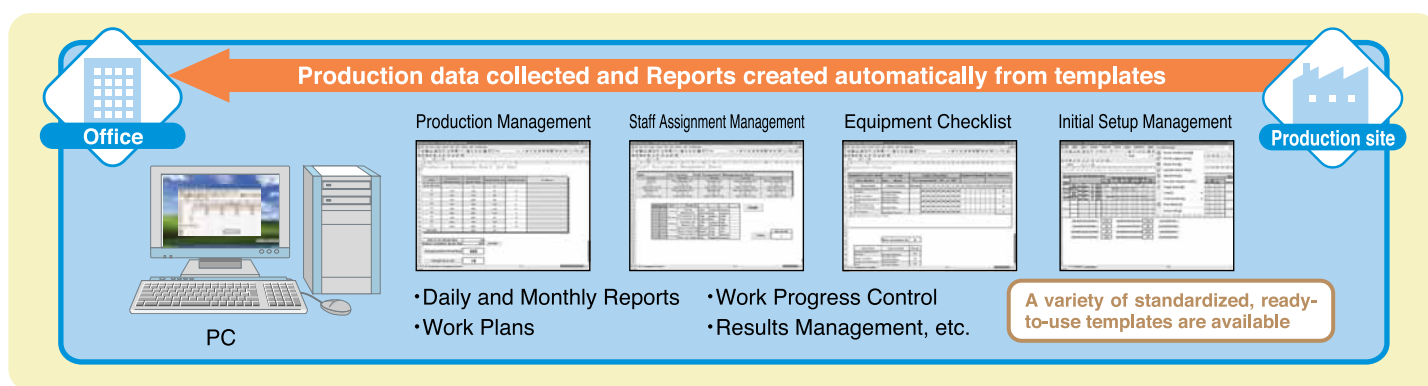When creating daily production reports, do you check data from each line and collate it in the office?
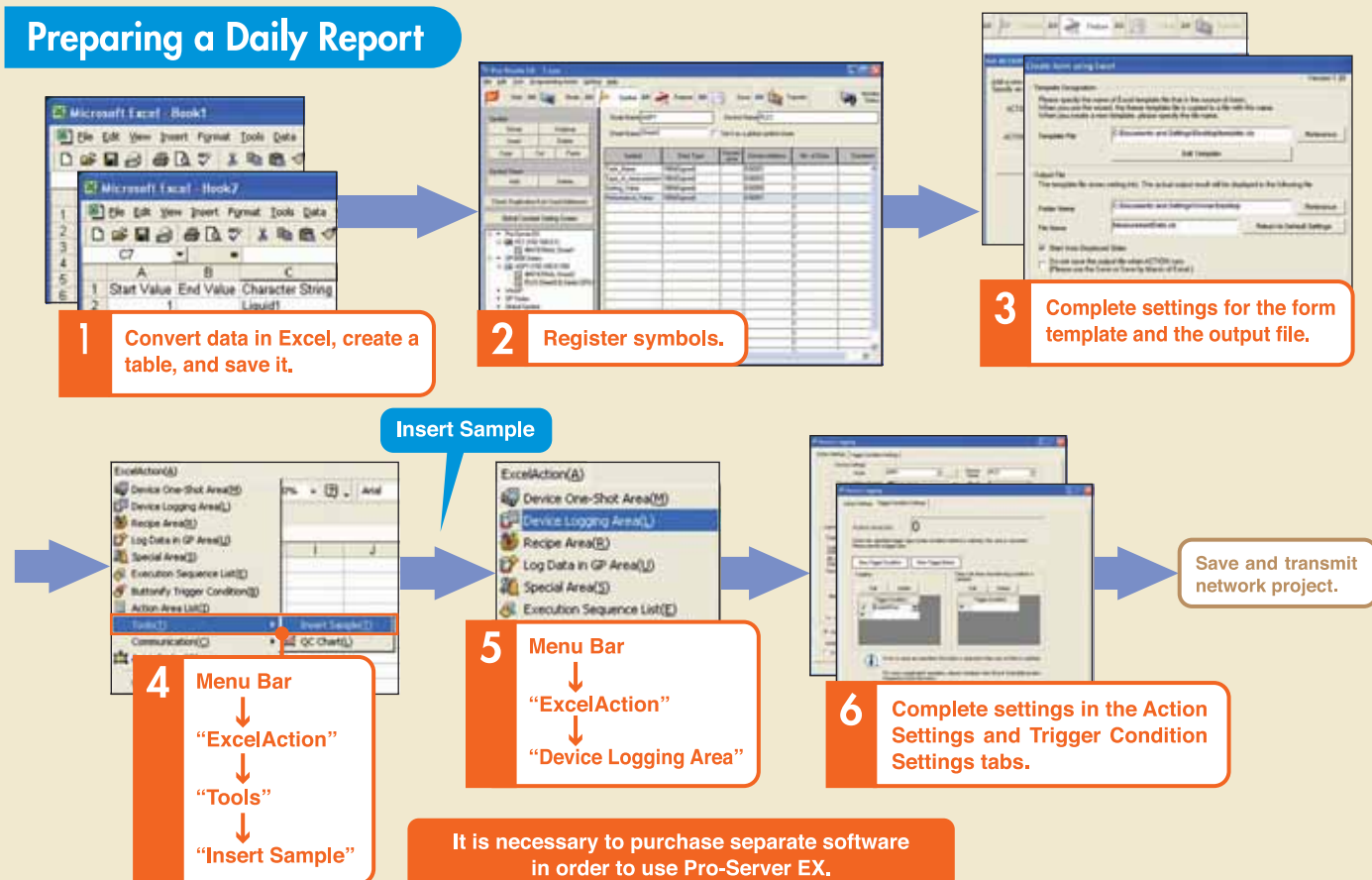
A Pro-face's solution ≪

Pro-Server EX has a form creation feature that automatically prepares daily reports and other records.

Pro-face offers AUTOMATED DAILY REPORTS

Office — Production data collected and Reports created automatically from templates — **Production site**

PC

- Production Management
  - ·Daily and Monthly Reports
  - ·Work Plans
- Staff Assignment Management
  - ·Work Progress Control
  - ·Results Management, etc.
- Equipment Checklist
- Initial Setup Management
  - A variety of standardized, ready-to-use templates are available

☞ Easy setting procedures

Preparing a Daily Report

1 Convert data in Excel, create a table, and save it.

2 Register symbols.

3 Complete settings for the form template and the output file.

Insert Sample

4 Menu Bar
↓
"ExcelAction"
↓
"Tools"
↓
"Insert Sample"

5 Menu Bar
↓
"ExcelAction"
↓
"Device Logging Area"

6 Complete settings in the Action Settings and Trigger Condition Settings tabs.

Save and transmit network project.

It is necessary to purchase separate software in order to use Pro-Server EX.

SECTION 05
Keep informed of progress on the factory floor without leaving the office

Solution Rating ★★★★☆ **80%**

Q QUESTION «

Have you gone to the trouble of integrating complex programming in order to keep an eye on production progress?
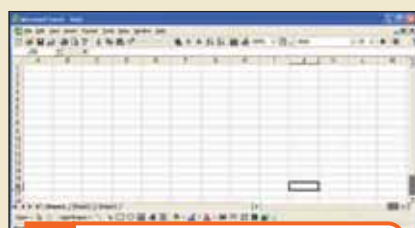
A Pro-face's solution «

Pro-Server EX uses Excel actions to display progress in the form of arrows, making it easy to grasp the situation at a glance without resorting to complex programming.

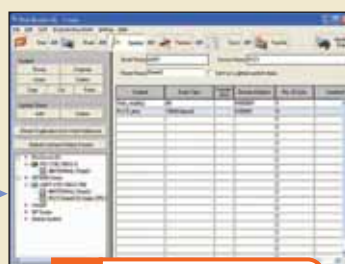## Pro-face offers REAL-TIME PROGRESS CONFIRMATION

Office

Production data collected

Production site

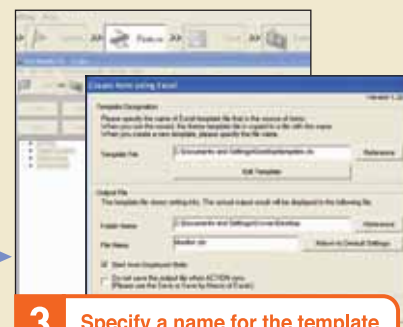|	10	20	30	40
Planned				
Actual				

PC

Ethernet
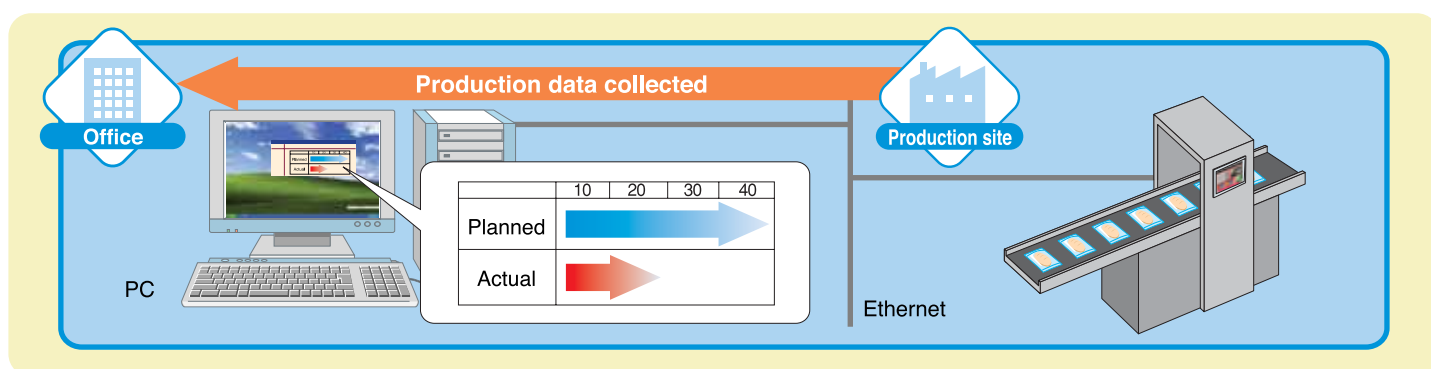
☞ Easy setting procedures

Arrow shows progress

1 Create and save a template for data from connected devices in Excel (using a blank sheet).
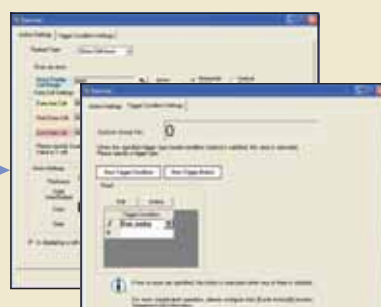
2 Register symbols.

3 Specify a name for the template you just created and the name of the Excel book where data will be output to.

ExcelAction(A)
- Device One-Shot Area(M)
- Device Logging Area(L)
- Recipe Area(R)
- Log Data in GP Area(U)
- Special Area(S)
- Execution Sequence List(E)
- Buttonify Trigger Condition(B)

4 Menu Bar
↓
"ExcelAction"
↓
"Special Area"

5 Complete settings in the Action Settings and Trigger Condition Settings tabs.

Save and transmit network project.

It is necessary to purchase separate software in order to use Pro-Server EX.