Cyber Bridge Software Package List

Hitachi High-Tech
HITACHI

Software package	Unit	Functions
CP—BRG	CP—IO	EX system (Ethernet) communication
	CP—RO	EX system (RS-232C) communication
	CP—PS	Acquire and accumulate processing data
	CP—LG	Acquire and accumulate record data
	CP—AL	Acquire and accumulate alarm data
	CP—BK	Data backup
CP—RPT	CP—RP	Make reports
	CP—SR	Make simple reports
CP—PCI	CP—PC	Display charts
	CP—TR	Display trends
	CP—PD	Display simple diagrams
	CP—XL	Connect to Microsoft® Excel®
CP—ALM	CP—AM	Display analytic alarms
CP—BAT	CP—BT	Display and accumulate batch trends

● Microsoft® Excel® is a registered trademark of Microsoft Corporation in the United States and other countries.

Actual performance management and analysis system
CyberBridge
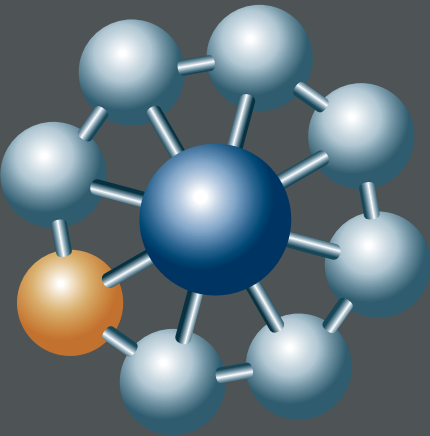
Comprehensive MES solution *CyberPlant*

CYBER
BRIDGE

CyberPlanner

HIBIS

Inventory Management System

CyberCall

Hand Work Management System

HiCompassage

CyberBridge

Traceability System

Equipment Operation System

CyberPrinter

For further information, please contact your nearest sales representative.
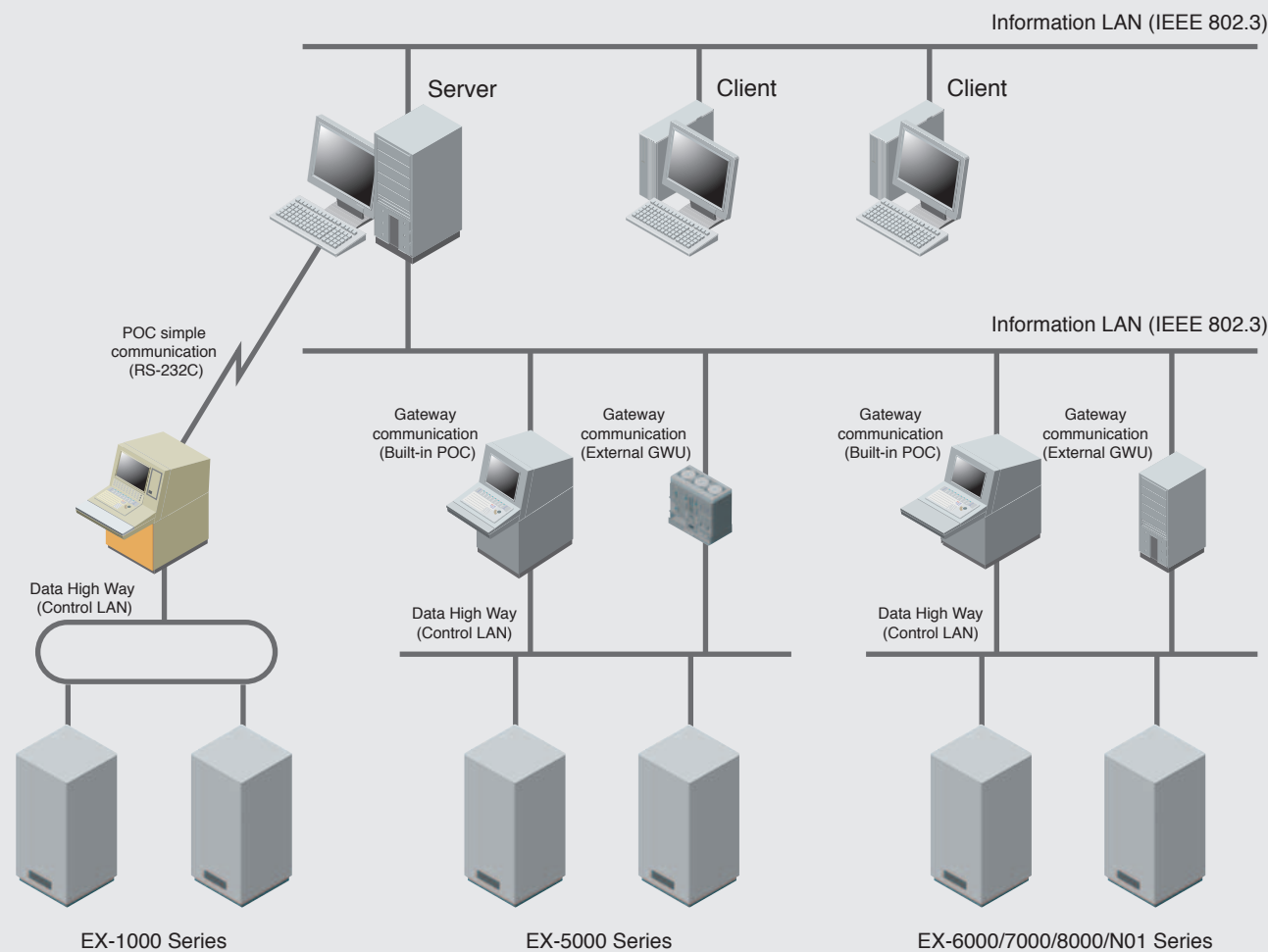
CyberBridge can analyze processing and alarm and report data accumulated and acquired via the control system thanks to its strong performance.

Application advantages of *CyberBridge*

Make a database with processing and report data acquired and managed for three years.

Acquire data at the rapidest period of one second and construct a large database with up to a maximum of 100,000 tags.

It can also be connected to the control systems of other companies in addition to Hitachi DCS, which can be connected to a maximum of 16 systems simultaneously.

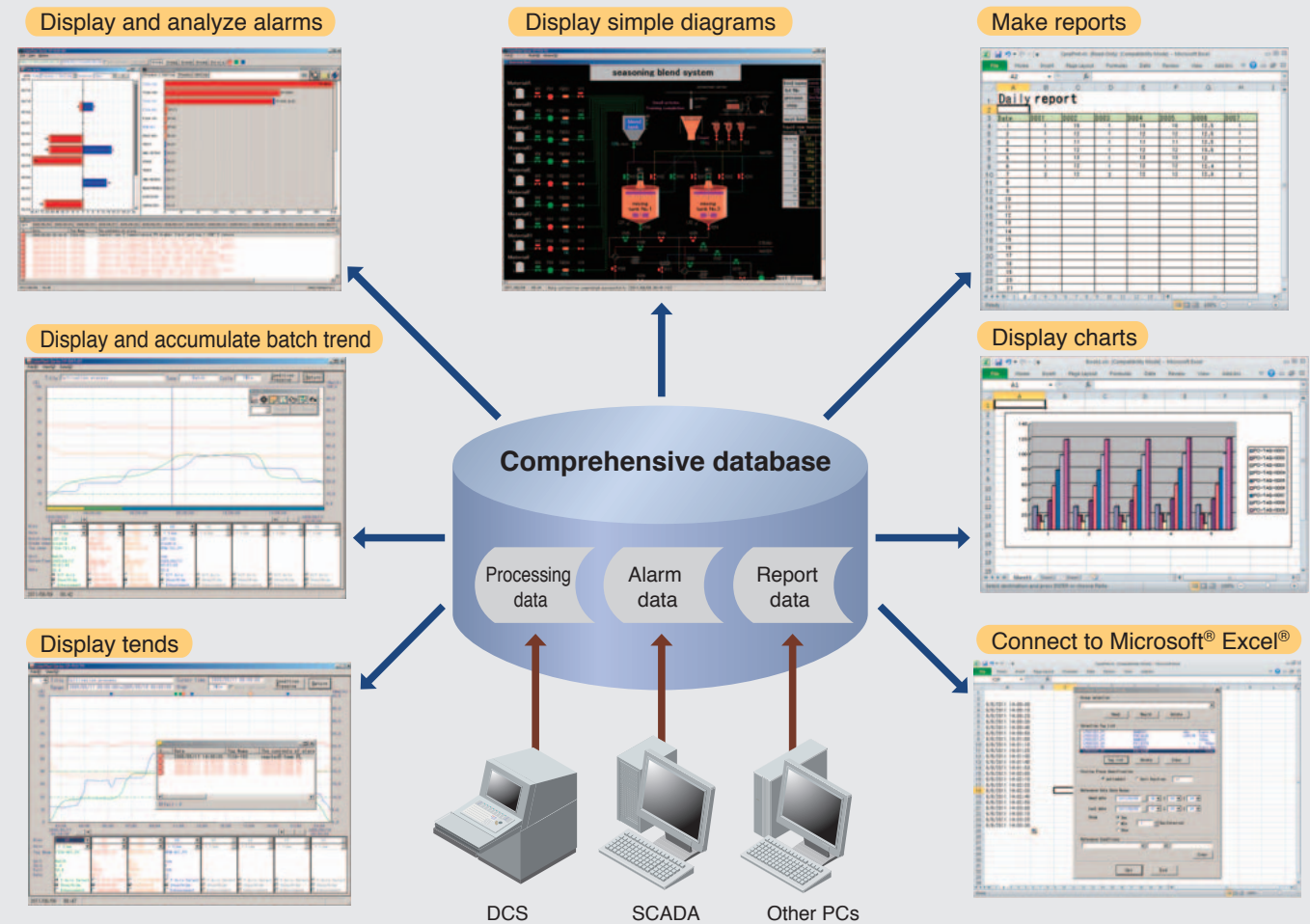Convert data acquired and accumulated from the database into a Microsoft® Excel® file.

● Acquisition period, accumulation capacity and the number of tags are dependent on PC performance and IC capacity.

CyberBridge composition

Information LAN (IEEE 802.3)

Server   Client   Client

POC simple communication (RS-232C)

Information LAN (IEEE 802.3)

Gateway communication (Built-in POC)   Gateway communication (External GWU)   Gateway communication (Built-in POC)   Gateway communication (External GWU)

Data High Way (Control LAN)

Data High Way (Control LAN)   Data High Way (Control LAN)

EX-1000 Series   EX-5000 Series   EX-6000/7000/8000/N01 Series

● It can be connected to the control system of other companies via OPC.

CyberBridge functions

Display and analyze alarms   Display simple diagrams   Make reports

Display and accumulate batch trend   Display charts

Comprehensive database

Processing data   Alarm data   Report data

Display tends   Connect to Microsoft® Excel®

DCS   SCADA   Other PCs

CyberBridge specifications

Functions	Specifications
Processing data acquisition and accumulation	Acquisition period: 1, 10, 30 seconds, 1 minute, 1 hour, and other periods
	Acquisition points: maximum of 20,000 points/GWU
	Accumulation time limit: Designate every set
Alarm data acquisition and accumulation	Alarm type: processing alarm, user alarm, operation guide and operation setting confirmation
	Acquisition period: 10 minutes, 30 minutes and 1 hour
	Accumulation number: maximum of 100,000 pieces
Display the trend	1,000 pages, 8 trend charts per page, connected to the alarm and Microsoft® Excel®
Display and accumulate batch trend	40 pages and 8 trend charts per page, batch/comparison trend
Display the analytical alarm	List search, frequency/time series chart, connect it to a Microsoft® Excel® form
Display simple diagram	200 pages, 100 points per page, data replacement period: 10 seconds to 1 hour
Make reports	Daily/monthly/yearly/batch report in 250 format
Display the chart	200 groups, 20 points per group, 5 charts per group
Connect to Microsoft® Excel®	Read tags, 100 points per group, 1,000 groups

● Its functions may be restricted according to hardware composition and points actually available. ● Alarm data acquired and accumulated can only support EX-6000/7000/8000/N01 series.
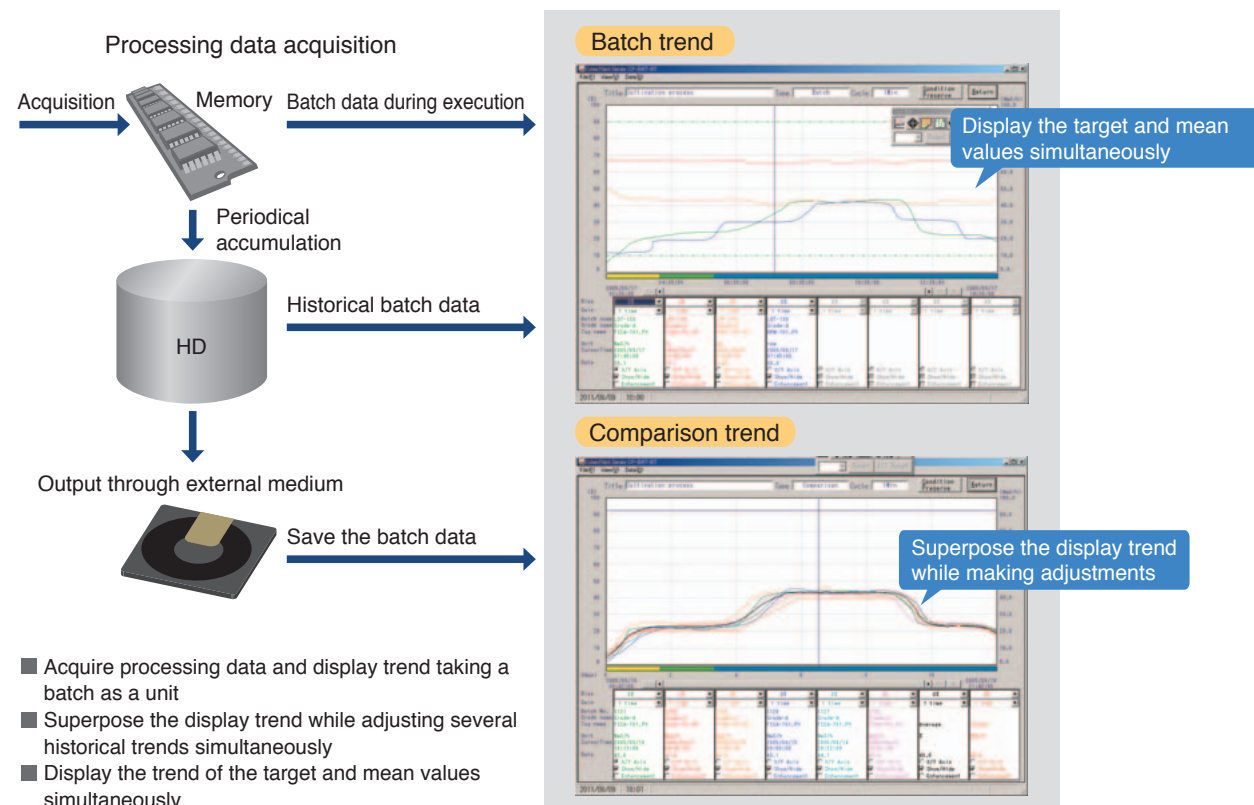
Display trends

Display the trend of accumulated processing data

Display plotting data

Paste electronic notes (note)

Expand the designated range displayed

Display alarms in the designated range
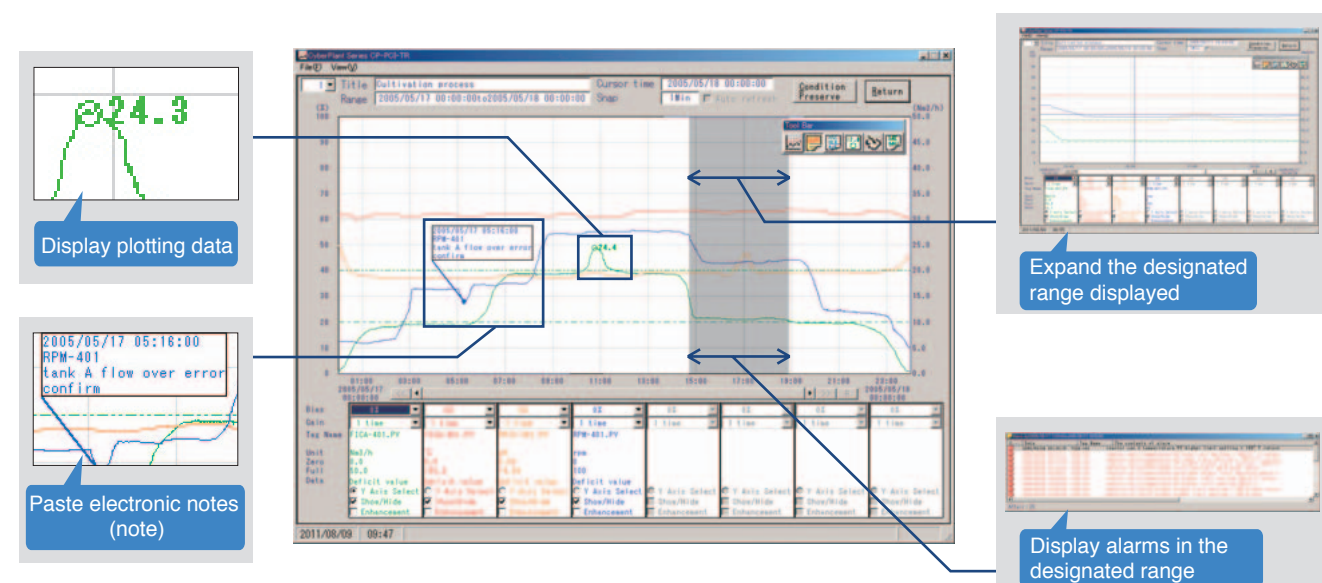
- Trends of advanced functions such as trend enlarging, data, amplification and displaying data at cursor positions
- Display up to a maximum of 28,000 plots, most applicable for long-term and detailed data analysis
- Display trend-related alarm data
- Image and trend data can easily be pasted into Microsoft® Excel®
- Electronic notes and values can be pasted on the trend diagram at will (plotting data)

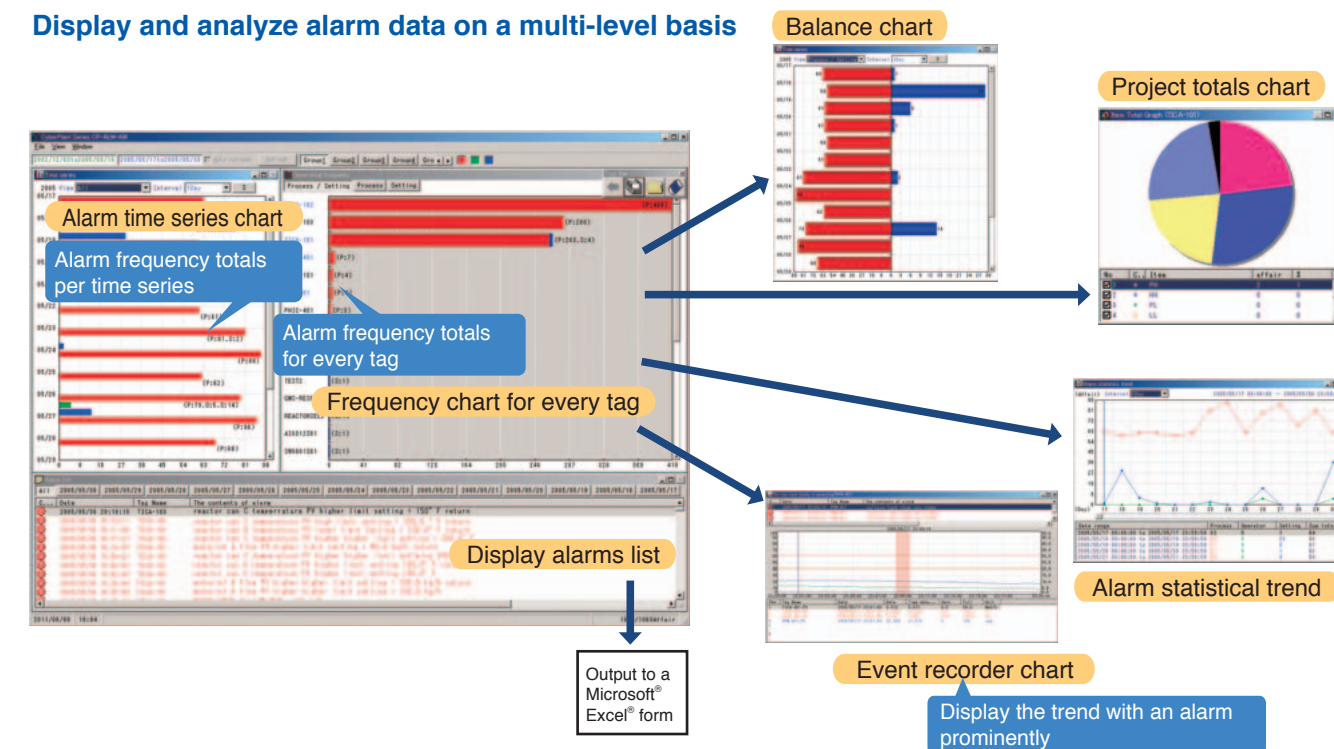## Display and accumulate the batch trend

Applicable for batch plant trend display and analysis

Processing data acquisition

Acquisition   Memory   Batch data during execution

Periodical accumulation

HD   Historical batch data

Output through external medium

Save the batch data

Batch trend

Display the target and mean values simultaneously

Comparison trend

Superpose the display trend while making adjustments

- Acquire processing data and display trend taking a batch as a unit
- Superpose the display trend while adjusting several historical trends simultaneously
- Display the trend of the target and mean values simultaneously
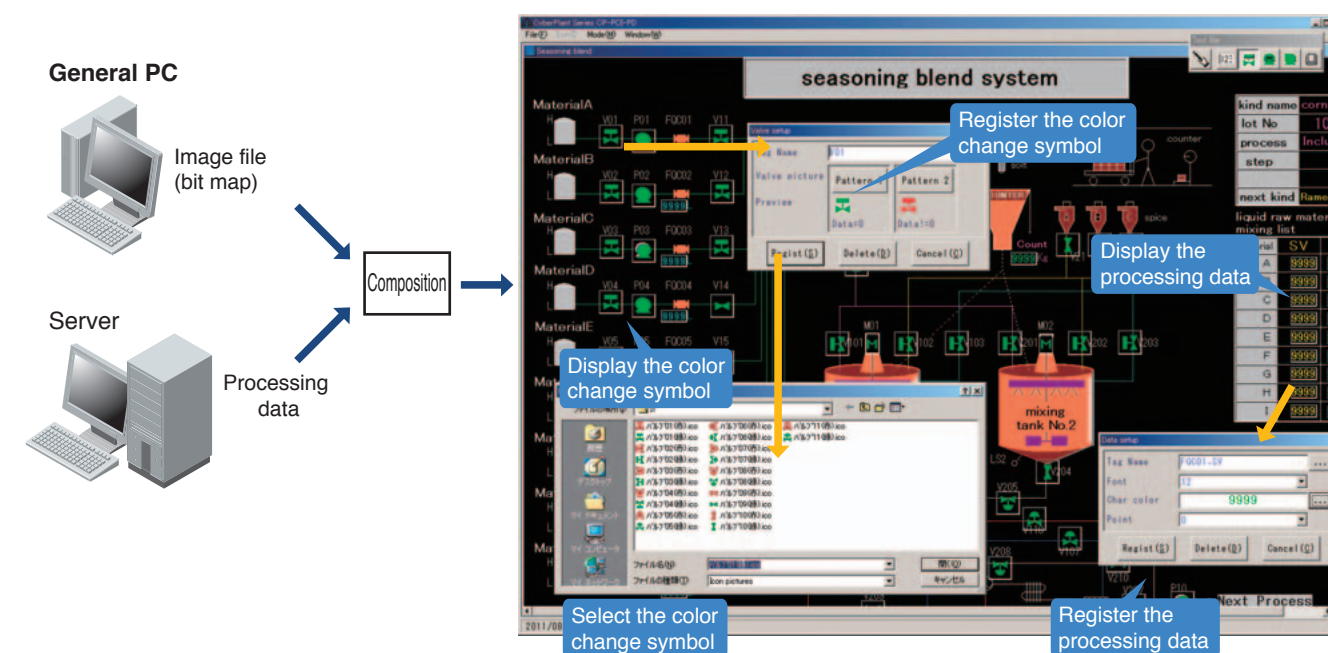
Display and analyze alarms

Display and analyze alarm data on a multi-level basis

Balance chart

Project totals chart

Alarm time series chart

Alarm frequency totals per time series

Alarm frequency totals for every tag

Frequency chart for every tag

Display alarms list

Alarm statistical trend

Output to a Microsoft® Excel® form

Event recorder chart

Display the trend with an alarm prominently

- Display processing and operate guide and verify alarm information already set
- Display and analyze alarms on a multi-level basis in charts such as time series, balance chart and statistics
- Paste alarm data to Microsoft® Excel®

Display simple charts

Intuitively monitor processing with chart display

General PC

Image file (bit map)

Server

Composition

Processing data

seasoning blend system

Register the color change symbol

Display the processing data

Display the color change symbol

Select the color change symbol

Register the processing data

- Monitor the processing state at an office separated from the apparatus room
- Use software to construct a monitoring screen through created image files
- Paste the monitoring screen to Microsoft® Excel®

Make reports

Make simple reports and output daily and batch reports
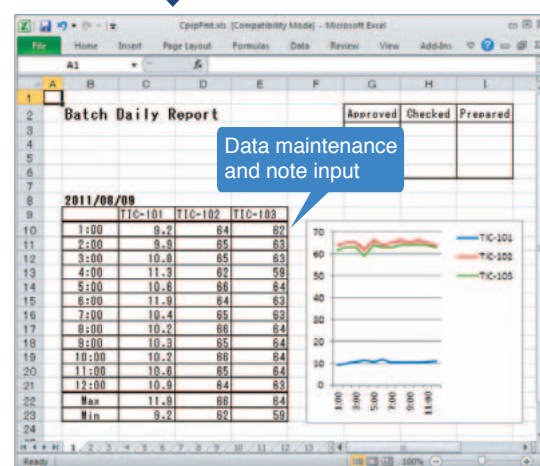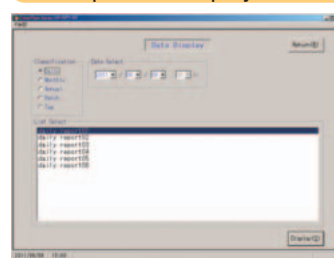
Timed registration form

Format registration form

Data edition registration form

Use a Microsoft® Excel® to register tickets

The report will display selected pictures

Data maintenance and note input

Input and output documents

■ Use Microsoft® Excel® to make simple reports
■ Print and output files by deadline and event
■ Input notes and maintenance data
■ Paste ticket data to Microsoft® Excel®

Connect it to Microsoft® Excel®

Directly output processing data to Microsoft® Excel®

Open a data selection screen right from the Microsoft® Excel® menu ❶
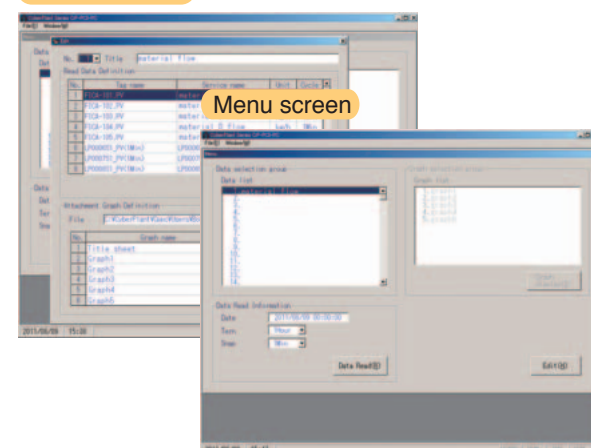
❷

Data selection screen

Designate a tag

Designate a date

❸
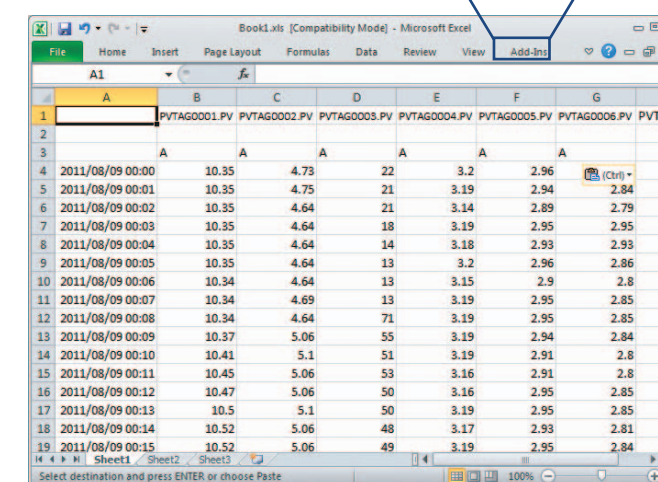
Processing data is passed

Designate a snap

Data search

■ Connected directly to the Microsoft® Excel® menu
■ Data can easily be pasted into Microsoft® Excel®
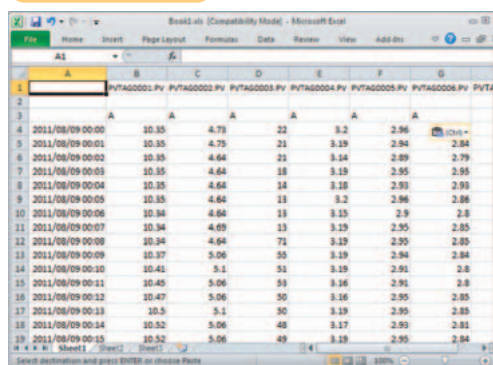■ Rich search functions such as date range and snap

Display charts

Read processing data and display it in charts
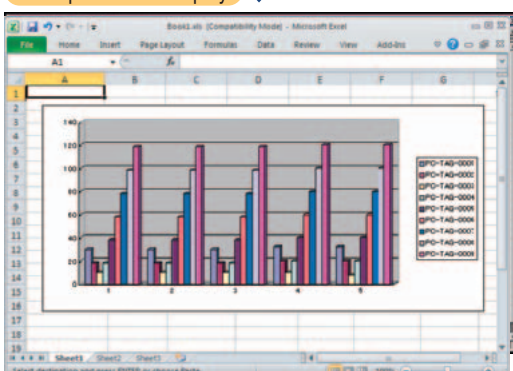
Edition screen

Menu screen
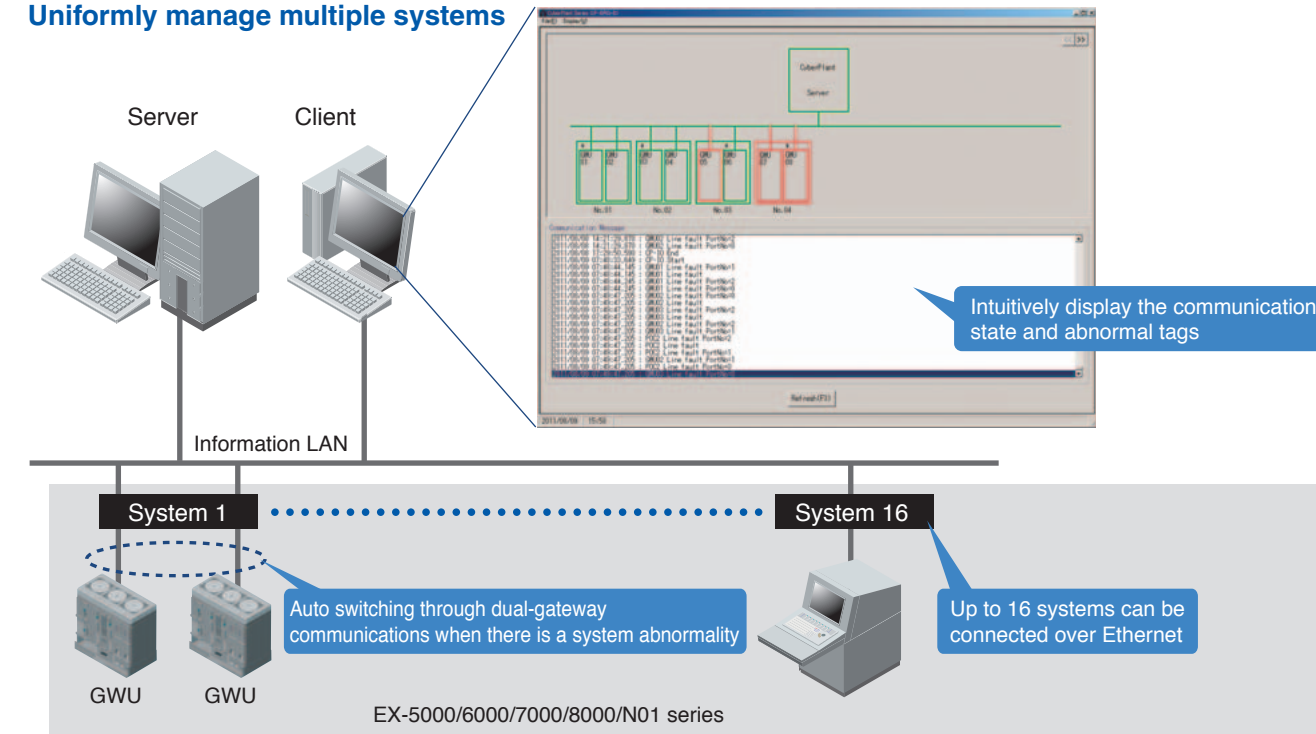
Designate the reading date and data

Time series data

Example of chart display

■ Draw time series data easily through date, period and snap
■ Easily make and display Microsoft® Excel® compatible charts

Reliability

Uniformly manage multiple systems

Server   Client

Intuitively display the communication state and abnormal tags

Information LAN

System 1 ●●●●●●●●●●●●●●●●●●●●●●●●●●● System 16

Auto switching through dual-gateway communications when there is a system abnormality

Up to 16 systems can be connected over Ethernet

GWU   GWU   EX-5000/6000/7000/8000/N01 series

■ Connect to EX systems, both old and new* ■ Construct large, comprehensive systems
■ Achieve high reliability through dual-gateway communication
* It can be connected through EX-5000/6000/7000/8000/N01 series