

S-System2 _{Version23.5}

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1. Introduction

This functional specification describes the functions of the operator station (S-System2) used for the project described on the front cover of this specification. It is an operator station used in a system that monitors and controls processes using a PLC.

2. Operating Environment

The operator station runs on Microsoft Windows10. The requirements for the hardware and software to be used are as follows.

Item	Description	Required specifications				
1.	PC Main unit	Windows10 based(LTSC 2019 recommended) PO				
		Keyboard, with mouse				
2.	CPU speed 3.0 GHz The above					
3.	Main memory size Approximately 16 GB recommended					
4.	Hard disk/SSD size	500 GB or higher				
5.	Hard disk redundancy	RAID 1 redundancy recommended				
6.	Interface 100Base-TX or higher					
7.	Monitor	FULL HD wide LCD, 23 inches or more				
		recommended				

2.1 Hardware Requirements (S2)

2.2 Hardware requirements (S2 client)

Item	Description	Required specifications
1.	PC Main unit	Windows10 based(LTSC 2019 recommended) PC
		Keyboard, with mouse
2.	CPU speed	2.0 GHz The above
3.	Main memory size	Approximately 16 GB recommended
4.	Hard disk/SSD size	120 GB or higher
5.	Interface	100Base-TX or higher
6.	Monitor	FULL HD wide LCD

Item	Description	Required specifications				
1.	PC Main unit	Windows Server 2019 based PC				
		Keyboard, with mouse				
2.	CPU speed	Intel made Xeon 3.0 GHz The above				
3.	Main memory size	Approximately 32 GB with ECC function				
		recommended				
4.	Graphics card	Equivalent to Quadro P620 made of NVIDIA				
5.	Hard disk/SSD size	500 GB or higher				
6.	Hard disk redundancy	RAID 1 redundancy recommended				
7.	Interface	100Base-TX or higher				
8.	Monitor	FULL HD wide LCD, 23 inches or more				
		recommended				

2.3 Hardware Requirements (App Server)

2.4 Software Requirements (S2/S2 Client)

Item	Description	Installed software	
1.	Basic software	Microsoft Windows 10 Professional/	
		LTSC 2019 64-bit version (Japanese, English,	
		Chinese(Simplified/Traditional), Korean, Thai,	
		Vietnamese)	
2.	SCADA software	PA-Panel6 manufactured	
		by Roboticsware Use our specified rev	
3.	Supervisory control	Packaging S-System 2 manufactured by	
	software package	Kyoto EIC	
4.	Report	Microsoft Excel 2019/2021	

2.5 Software Requirements (App Server)

Item	Description	Installed software	
1.	Basic software	Japanese-language Microsoft Windows Server	
		2019 (Japanese, English,	
		Chinese(Simplified/Traditional), Korean, Thai,	
		Vietnamese)	
2.	SCADA software	PA-Panel6 manufactured by Roboticsware	
		Use our specified rev	
3.	Supervisory control	Packaging S-System 2 manufactured by	
	software package	Kyoto EIC	

3. Configure the Operator Station Screen

The operator station screen for the central monitoring device consists of the following five parts.

- Top toolbar area
- Lower toolbar area
- The left menu area
- The right side menu area
- The screen function area

3.1 Screen configuration

Single-Screen Mode Configuration

This mode enables you to use the single-screen function.

Top toolbar area							
Left Side Menu Area	Screen function Area	Right Side Menu Area					
	Lower toolbar area						

Four-Screen Mode Configuration

In this mode, the four-screen display functions are available.

	Top toolbar area							
Upper left side Menu Area	Screen function	Upper right Side Menu Area						
Lower left side Menu Area	Area	Lower right side Menu Area						
Lower toolbar area								

3.2 Top toolbar area

The top toolbar area is always displayed at the top regardless of which screen is displayed, and the buttons in the area and the functions and details of each display are as follows.



NOTE) When the operation guide function or system status function is optionally installed, the items in the alarm display area are always different.

No.	Name	Function						
1	Mute button	This button mutes the alarm sound.						
		Flashes yellow when an alarm sounds.						
2	Status check button	Lights in red if there is an alarm or operation guide.						
3	Alarm status display	Displays the information of the most recent alarm that is currently						
		occurring.						
		Display information : Alarm occurrence date/time						
		Alarm recovery date and time						
		Alarm confirmation date and time						
		Alarm group						
		Warning level (emergency, heavy failure, medium						
		failure, light failure, information)						
		Details of the alarm						
		Display color according to alarm level						
		Emergency : Magenta						
		Serious failure : Red						
		Medium failure : Orange						
		Minor failure : Yellow						
		Information : Cyan						
		Indicator colour : When an alarm is generated and unconfirmed						
		: Red						
		If the alarm is being generated and confirmed: Orange						
		When unconfirmed by alarm recovery : Green						
		Click a message to view the faceplate of the tag.						
		Up to 5 latest messages are displayed, and more messages						
		are displayed by scrolling.						
4	Print button	The screen can be printed.						
		You can also right-click to print normally or hardcopy screens.						
		(with black-and-white reverse printing function)						
5	System button	Click the screen for system setting and shutdown of						
		this equipment.						

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3.3 Lower toolbar area

< Q Fit FP DR Para

The bottom toolbar area contains the following symbols and display areas, each with the following functions:

-																
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15 16	17	18

No.	Name	Function
1	Left menu area	Shows/hides the left menu.
	display/hide button	You can enlarge the display of the screen function area by
		hiding it.
2	Screen function area	After clicking this icon, specify a range with the mouse in the
	zoom button	screen function area to enlarge the range.
		You can use the scroll bar to move the displayed area of the
		enlarged screen.
3	Screen Function area	Magnifies Display in the screen function area at the same
	Size Expansion Button	magnification.
4	Screen Function area	Reduces Display in the screen function area to the same size.
	Size Reduction Button	
5	Screen Function area	Resets the enlargement in the screen function area to the
	Actual Zoom Reset	original display size.
	Button	
6	Faceplate search	The faceplate search screen is displayed and up to eight
	button	faceplates of the specified tag are displayed.
7	Pop-up faceplate	Clears all pop-up faceplates displayed on the screen.
	all clear button	
8	Pop-up full-screen	Deletes all popup windows displayed on the screen.
	delete button	
9	Parameter search	The Parameter Search screen appears, displaying up to eight
	button	faceplates that match the search criteria based on the
		parameters.
10	Condition display area	Indicates that the unit is in demo mode when the license USB
		is not inserted.
11	Test mode display	The red lamp lights in the test mode (simulated input mode).
		Click this button to display a list of tags in test mode.
12	1 Switch screen mode	Switches to single-image mode.
13	4 Screen mode	4 Change to the screen mode.
	switching	

No.	Name	Function
14	Date and time display	Displays the current time in years (western calendar), months,
		days, hours, minutes, and seconds.
15	Master display	When unconfirmed by alarm recovery "M" lights up when the
		PC is the master.
16	PC node display	Displays the current alarm PC node state.
		For server machines: Server
		For the client machine: Client
17	Operation privilege	Of the following privileges, the current operation privileges are
	display	displayed.
		VIEWONLY
		OPERATOR
		SUPERVISOR
		ENGINEER
		You can change the operation privilege by clicking.
		Refer to the table below for the contents of each operation
		permission.
18	Show/Hide right menu	Shows/hides the right side menu.
	area button	You can enlarge the display of the screen function area by
		hiding it.

[Operation Privileges]

Name	Description
VIEWONLY	Monitoring such as screen expansion is possible and operation is not
	possible.
	You can set bookmarks, trends, and groups.
OPERATOR	Normal plant operation mode. In addition to VIEWONLY function,
	basic control operations are available.
SUPERVISOR	In addition to the functions in OPERATOR mode, some settings
	related to system settings can be made. Password is required to
	enter SUPERVISOR mode.
ENGINEER	In addition to the function in SUPERVISOR mode, tag information can
	be set, and all functions of the system can be used. Password is
	required to enter ENGINEER mode.

A password is not required to migrate from a higher privilege to a lower privilege.

3.4 The left menu area

Alarm summary
Alarm history
Report
Group
Graphic
<u> </u>
🖄 Comp.Trend
Furnace1 🔺
Furnace2
Forehearth
Screen function List
Area C Area B Area A
Back Next

The left menu area provides the following functions:							
Name	Function						
Alarm condition	Calls up the screen to display the current alarm						
	status.						
Alarm history	Calls up the alarm history screen.						
Report	The report list is displayed in the screen function						
	list, and the desired name is selected to call up the						
	report screen.						
Group	The group screen list appears in the screen						
	function list. Select the desired name to bring up						
	the group screen.						
Graphics	The graphics screen list appears in the screen						
	function list. Select the desired name to bring up						
	the graphics screen.						
Trend	The trend group list is displayed in the screen						
	function list, and select the desired name to bring						
	up the trend screen.						
Comparison trend	The comparison trend group list is displayed in the						
	screen function list, and the desired name is						
	selected to bring up the comparison trend screen.						
Screen Function List	When you press the report button, group button,						
	graphic button, trend button, or comparison trend						
	button, the registered screen name is displayed.						
	Select and call up the screen you want to display.						
	You can display up to two popup windows						
	by clicking the button on the left of the window						
	name.						
Back	Calls up the last displayed screen.						
Next	Forward the returned screen one screen at a time.						

The left menu area provides the following functions:

3.5 The right side menu area

	each with the following f	unctions:				
👉 Bookmark	Name	Function				
Title	Bookmark List	The screen name registered in the bookmark list is				
		displayed. Select the desired name to recall.				
	Add button	Pressing the Add button while the screen is				
		displayed registers the bookmark and displays the				
Bookmark		screen name at the bottom of the bookmark list.				
List	Delete button	You can delete items registered in the bookmark				
		list.				
	Tag monitor	List the status of the tags in the current tag				
		monitor group.				
	File list	You can list files in a specific folder.				
Add Del	Maintenance	List the start of use of registered				
		equipment, inspection timing,				
Tag monitor		and replacement timing.				
	Operation guide	Operation Guide the operation guide history.				
≘	history					
File list	Event history	Tag events History: Displays the event history.				
 Maintenance Guide history 	Operation history	Operation history in machine: Displays				
 Guide history Event history 		the operation history.				
Operator log	MEL Utility	Displays the internal data reference screen of				
M MEL Utility		PLC made by Mitsubishi Electric Corporation.				
		To manipulate the value, you need to have				
		operation permission greater than ENGINEER.				
🛨 Title	CS Utility	Displays the Omron PLC internal data reference				
		screen. To manipulate the value, you need to have				
		operation permission greater than ENGINEER.				
	Title button	Displays the title screen.				

The menu area on the right has the following symbols and display areas, each with the following functions:

3.6 The screen function area

The screen selected from the left and right menu areas is displayed. For the function of the displayed screen, refer to the function of each screen.

3.7 Menu area in 4-screen mode

In the 4-screen mode, the left and right menu areas are divided into upper and lower sections to enable screen selection corresponding to each of the 4-split screens, and to switch the display in the menu area.



The three \Box buttons at the top of the menu allow you to switch the display contents in the menu area as shown below.



4. Monitoring screen functions

This section describes the functions and details of the various screens displayed in the screen function area.

4.1 Alarm status display screen

The alarm status display screen displays the current alarm (the currently occurring alarm, the unconfirmed alarm, or the recovered but unchecked alarm), and you can check the status.



4.1.1 Alarm search/setting area

Λ	А	LL 🔻 🛈 Info 🔍 Lig	ht 💦 🕼 Medium 🛛 🛇 Heavy 😰 Emerg 💦 < Setting Menu					
_	1	2	3					
	No.	Name	Function					
	1	Group combo box	You can filter the alarm groups.					
	2	Alarm level filter button	You can filter the alarm level.					
			When the filter is applied, the corresponding button is					
			grayed out.					
	3	Setting menu	Displays menus related to alarm settings.					

Alarm setting menu

Close >	
Print & Save	\sim
Save Text	
Save CSV	
Display	\sim
Visible icon	~
Date order	\sim
Latest order	√
Setting	\sim
Save setting	
 Print settings Do not page break 	
Specify number of new page 60	je lines

Name	Function
Close	Closes the alarm setting menu.
Text printing	Display the alarm currently displayed in the
	alarm display area in text using Notepad.
CSV output	The alarm being displayed in the alarm display
	area is saved in CSV format.
Icon display	When an alarm occurs, an icon corresponding to
	the alarm level is displayed along with the value
	on the screen.
	Default value: Display
Chronological	Sorts alarms in new order from the time of
order	occurrence.
Keep setting	Save the print sets and icon display settings.
No page break	Select if you do not want line breaks when
	printing text.
Page break with	Select this option to start a page break on a
specified	designated line when text is printed.
number of lines	The number of lines that can be specified for
	page breaks can be changed.

4.1.2 Alarm display area

Occur Date	Recover Date	Ack Date	Group	Level	Message	
2020/06/23 09:16:29		2020/06/23 09:16:37	Furnace1	Medium	[MTIA_10]Left Stack:L(L)Value:500	
2020/06/23 09:15:44		2020/06/23 09:15:48	Furnace1	Medium	[MTIA_8]Reg. Crown Left:H(H)Value:1004	
•					▶	

The alarm display area displays the status of the currently occurring alarm.

Each line of alarms displays the following items:

• Time information

Displays the date and time of occurrence, recovery date and time, and confirmation date and time in seconds.

• Group

Select the group to which the message belongs (three types: "All", "Status", and "System")

• Level

Selection of message type (Information, minor failure, medium failure, major failure, emergency)

Indicator colour : Information = Cyan, Light Fault = Yellow, Fault = Orange, Serious Fault =

Red, Emergency = Magenta

• Content

Tag name and alarm status are displayed.

For analog values, the value when an alarm occurs is also displayed.

The alarm characters and the display color of the background are classified according to the alarm status as follows.

Alarm condition	Font color	Background color
If the alarm is being generated and confirmed	Alarm Level Color	White
When an alarm is generated and unconfirmed	White	Alarm Level Color
When the alarm is restored	Alarm Level Color	Gray

If an alarm that has already been acknowledged is restored, the display is automatically cleared.

4.2 Alarm history screen

This screen displays the history of alarms that have occurred. The display contents and their methods are the same as those of the alarm status display screen, but they are equipped with a function for easily confirming past alarms and a saving function.

Records older than one year are automatically deleted.



In the Alarm History screen, up to 5000 alarm histories can be displayed from the current time for one day.

4.2.1 Alarm history search/setting area

	1		2									3
<u>ک</u>	ALL		1 Info	ۍ ال	Light		Medium		Heavy	🗘 Emerg) (< Setting Menu
[Period co	onditions —			_			Search	ondi	tions ——			
2020/	/06/22 09	:37:26	<->	2020/06	5/23 09:37:	26.	Tagnam	e:		Descriptor:		
			1							Ę		
			4							3		

No.	Name	Function
1	Group combo box	You can filter the alarm groups.
2	Alarm level filter	You can filter the alarm level.
	button	When the filter is applied, the corresponding button is grayed out.
3	Setting menu	Displays menus related to alarm settings.
4	Period selection	The alarm history information can be searched by specifying the
	condition	start date and time and the end date and time.
5	Search condition	You can search the alarm history information by specifying the tag
		name or characters in the tag.

Alarm setting menu

Screen display	\sim
Refresh	
Display	\sim
Visible icon	~
Date order	\sim
Latest order	~
Setting	\sim
Save setting	
Print & Save	\sim
Save Text	
Save CSV	
SearchFunction	\sim
DetailedSearch	
 Search · display settings 	
Maximum number of search targets	
5000	
Display maximum number of screen l	ist
5000	
 Print settings 	
 Do not page break 	
Specify number of new page li	nes
60	

Name	Function
Close	Closes the alarm setting menu.
Latest display	Alarm history information is always updated. A
	maximum of 5000 cases are available in a one-day
	period from the current point.
Icon display	When an alarm occurs, an icon corresponding to the
	alarm level is displayed along with the value on the
	screen. Default value: Display
Chronological	Sorts alarms in new order from the time of
order	occurrence.
Keep setting	Save the print sets and icon display settings.
Text printing	Display the alarm currently displayed in the alarm
	display area in text using Notepad.
CSV output	The alarm being displayed in the alarm display area
	is saved in CSV format.
Detailed	Used when you want to set further conditions in
search	addition to the conditions in the alarm history
	search/setting area.
Maximum	Set the maximum value of the alarm history
number of	information to be searched.
searches	
Maximum	Set the maximum value of the alarm history
number of	information to be displayed on the screen.
screen list	
displays	
No page break	Select if you do not want line breaks when printing
	text.
Page break	Select this option to start a page break on a
with specified	designated line when text is printed.
number of	The number of lines that can be specified for page
lines	breaks can be changed.

4.2.2 Alarm history display area

Refer to the same as the alarm status display screen.

4.2.3 Detailed search

The alarm history information can be refined and searched, and up to 10000 alarm history information that matches the search condition can be acquired.



[Alarm history search/setting area]

Search Period	2020	¥	/	6	T	/	ALL	T
	1			2			3	

No.	Search target	Function
1	Year	Searches for the specified year.
		If you select "All", all data will be searched.
2	Month	Searches for the specified month in the specified year.
		If you select "All", the data specified by the year will be searched.
3	Day	When "All" is selected, the data specified by the month is searched.
		If you select "1-9", the search will be performed on the 1st to 9th of the
		specified month.
		If you select "10-19", the search will be performed from the 10th to the 19th
		of the specified month.
		If you select "20-29", the search will be performed on the 20th to 29th of
		the specified month.

Operator Station (S-System2) Functional Specifications

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Condition. Occur+Recover ▼
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Conditions	Function
Occurrence + recovery	The alarm that occurred and the recovered alarm are searched.
Occurrence	The generated alarm is searched.
Restoration	The recovered alarm is searched.
Confirm	The confirmed alarm is searched.

Search Character:	AND •	Search Run
	* Please do not search by numbers.	

Search can be performed by alarm group name, alarm level name, tag, name, and character in state.

In addition, two types of search characters can be set, and AND and OR conditions can be set. (You cannot search only numeric values.)

Search Run

The results that match the search conditions are displayed in the alarm history display area.

[After Alarm History Search Results/Setting Area]

Search can be performed according to the search result in the alarm history search result/setting area.

Search can be performed by setting the alarm occurrence date and time, alarm restoration date and time, and alarm confirmation date and time.

	Occur Date	Recover Date	Ack Date	Group	Level	Message	
\times	Q	Q	Q	Q	Medium $ imes$		
	2020/06/23 09:15:44			Furnace1	Medium	[MTIA_8]Reg. Crown Left:H(H)Value:1004	
	2020/06/22 00:16:20			Furnaco1	Modium	INITIA 1011 off Stackel /LWaluerE00	

Save	Text
Save	CSV

Text is displayed using Notepad for the contents displayed in the alarm display area. The content displayed in the alarm display area is output in CSV format.

[Alarm history display area]

Refer to the same as the alarm status display screen.

4.3 Group screen

This screen displays the instrument and actuator faceplates as a group. There are two types, up to 20 faceplates and 8 faceplates per screen.



01:Control		T				Gro	oup setting
			AddTag	AddTag		AddTag	
DelTag	DelTag	DelTag			DelTag		DelTag
GFIC	AFIC	GLIC			MTIA_8		MTIA_11
Gas Flow	Combustion Air Flow	Glass Level			Reg. Crown Left		Right Stack
HH H L LL AOF DV	HH H L LL AOF DV	HH H L LL AOF DV			HH H L LL AOF		HH H L LL AOF
Open 1200	Open 12000 - (HH 	5.0 HH 0.0			1600		
Close MAN Nm3/h	Close AUTO Nm3/h	-5.0 MAN			800		
s₽ 600 ₽v 543 ™v 39.6	sp 6048 pv 6023 mv 50.6	sp 0.0 pv -0.1 mv 50.0			PV 1002		₽v 499
Parameter	Parameter	Parameter			Parameter		Parameter
Tuning	Tuning	Tuning					

You can recall a group page that you want to display by selecting its name from the selection box.

01:Control

If the screen displays 20 faceplates, click \square on the upper right of each faceplate. It can be recalled enlarged as a pop-up faceplate.

Refer to the separate instruction manual for the type and parameters of the faceplate displayed in the group page.

4.3.1 Group registration function

Group setting

With the privileges above SUPERVISOR, pressing the group registration button brings up the following window, allowing you to add or delete group pages, and to register, delete, or change tags in group pages. The following window is for a group page with 20 faceplate displays.

roup						Faceplate								
1:Control		▼	Add		Del	Up	Do	wn	Blank	Del				
						Tagnam	ie			C)esci	riptor		
					GFIC Gas Flow									
ag list						AFIC		Comb	oustion Air I	Flow				
Search condition-	-					GLIC		Glass	Level					
Tag:	Desc.:					blank		blank						
	'					blank		blank						
Type: ALL	▼					MTIA_8		Reg. (Crown Left					
Tagname	Descriptor				Add>	blank		blank						
	Q		Q	-		MTIA_11		Right	Stack					
AFIC	Combustion Air Flow				Insert>	blank		blank						
AFIC_1AL	Combustion Air Flow Abnorm	nal				AI18		Spare	9					
AFIC_1TLLL	Combustion Air Flow LLL				Overwrite>	AFIC_1TLLL		Comb	oustion Air I	Flow LLL				
AFIC_1_CV	Combustion Air Flow					blank		blank						
AFI_1	Combustion Air Flow					MPIC		Furna	ice Pressure	è.				
AI07	Spare					AFI_1		Comb	oustion Air I	Flow				
AI08	Spare					blank		blank						
AI12	Spare					blank		blank						
AI16	Spare					blank		blank						
AI17	Spare					blank		blank						
AI18	Spare					blank		blank						
AI19	Spare					blank		blank						
AI20	Spare													
AI24	Spare			v I										
	2			-										

Title	Function
Group	Group pages can be added or deleted.
	You can also rename a group page.
Tag list	When you search by tag number, name, or type, the tags that match the conditions
	are displayed.
Add>	Selects the tag displayed in the search and adds it to the bottom of the group page.
Insert >	Selects the tag displayed in the search and inserts it at the selected position on the
	group page.
Override>	Selects the tag displayed in the search and overwrites it to the selected position on
	the group page.
Upper	Moves the selected tag position up one position.
Bottom	Moves the selected tag position down one position.
Blank	Creates a blank space one position below the selected tag.
Delete	Deletes the position of the selected tag.

4.4 Graphics screen

From the graphic screen, you can monitor the status of the plant and perform control operations by invoking the faceplate. Note that the contents that can be operated differ depending on the operator's permission.

Graphic screens are plant-specific screens, so only symbols and display functions used in the screen are described.

4.4.1 How to display analog values

Normally: Cyan characters and numbers are displayed.

For analog values For controllers



In case of an alarm (in case of a fault): The orange frame is displayed with the in progress fault icon.

In case of alarm (in case of serious failure): Red frame is displayed together with the Critical Failure icon.

In case of medium failure





In case of serious failure

Communication error: The area inside the frame is displayed in deep red.



PID loop status display color

Control mode	Display character	Indicator color	Value	Indicator color
Manual	MAN	Yellow	PV	Cyan
Automatic	AUTO	Cyan	SP	Green
Cascade	CAS	Purple	MV	Yellow

4.4.2 How to display digital values

ON/OPEN/OPERATION: RED DISPLAY(Standard Time)



OFF/Closed/Stopped: Green display.(Standard Time)



Error: Flashes in orange. (Standard Time)

Alert icons can also be displayed at the same time by setting.

[How to display the opening of the control valve, etc.]

The color of the symbol changes according to the output signal to the control valve, etc.

When the output is less than 1%: Green display.(Standard Time)



When the output is 1% or more: Indicates in red.(Standard Time)



4.4.3 How to call up sticky notes and faceplates

Sticky note function:



You can leave the content you want to convey to the graphic screen on the sticker.

Maximum number of labels per screen is 5.

○ Addition of sticker

Click the Add Tag icon on the Graphics screen.

After clicking, a new tag is added to the upper left.



:Add tag icon

ODisplaying or hiding sticky notes



Hides registered stickers collectively.

Used to reference objects behind sticky notes.



:Tag display icon

Display registered stickers collectively.

To recall a faceplate:

The faceplate of the registered tag can be recalled by left-clicking the analog value display area and digital value display area.

The menu is displayed by right-clicking the analog value display area.

(figure below)

PIDTurning	
Group	
Trend	
ComparisonTrend	
FacePlate	
СоруТад	

Title	Function
PID tuning	The PID tuning screen is displayed.
Group	The group screen (first applicable screen for tag search) to which this tag is assigned is called up.
Trend	The trend screen (first applicable screen for tag search) to which this tag is assigned is called up.
Comparison trend	The comparison trend screen (first applicable screen in tag search) to which this tag is assigned is called up.
Face Plate	The faceplate assigned to this tag is called.
Сору Тад	You can assign this tag by copying the tag assigned to this object and pasting it on another screen.

4.5 Trend screen

The trend screen displays tag values in chronological order using a line chart, and stores tag values for one year at a specified interval.



Up to 8 points can be registered on the trend screen.

4.5.1 Trend page change and registration area

The trend page change/registration area has the following functions.

N 01:GAS	T	AutoUpdate	Setting Trend	< Setting Menu
Euroption	Description			

Function	Description
Group combo box	The trend group can be selected.
Automatic update	The trend graph is updated every fixed time (2 seconds). Note that
	automatic updating cannot be performed on multiple trend screens.
	The button lights up yellow during automatic update.
Trend registration	You can add/delete trend groups and register/delete/change trend tags in
	groups.
	Note that you need more than SUPERVIOR privilege.
Setting menu	Perform basic setting and output setting of trend.

Operator Station (S-System2) Functional Specifications

Dragging the graph screen with the mouse in the trend display area enlarges the graph. During the enlargement display, the [Release Enlargement] button is displayed in the trend page registration/change area.

Zoom Reset

When you place the cursor on the zoom release button, the button is displayed in red, and when you click it, the zoom is released.

Zoom Reset

4.5.2 Setting menu

Close >	
Screen display	\sim
Point	
Graph setting	\sim
Basic setup	
Pen setting related	\sim
Reload pen settings	
Print & Save	\sim
Print trend	
Reverse print trend	
Save CSV(string)	
Save CSV(num.)	
Save Trend Excel form(string)	
Save Trend Excel form(num.)	

Name	Function
Close	Closes the Settings menu.
Point display	Displays the position of the collected data as a
	point.
Basic setting	Set the trend background color, crease color,
	and pen thickness.
Reload pen settings	Reload the trend setting information.
Normal printing	Prints the trend screen without including the
	upper and lower tool bars and left and right
	menus.
Reversed	Prints the trend screen in black and white
printing	without including the upper and lower tool
	bars and left and right menus.
CSV character	Text output of the trend data between the left
output	and right hairline cursors in the trend display
	area in CSV format.
CSV numerical	Outputs the trend data between the left and
output	right hairline cursors in the trend display
	area in CSV format.
Trend Excel	The trend data between the left and right
(Character)	hairline cursors in the trend display area is
	output as text in Excel together with the
	screen hardcopy.
Trend Excel	The trend data between the left and right
(Numerical value)	hairline cursors in the trend display area is
	outputted in Excel together with the screen
	hardcopy.

4.5.3 Trend display area

The trend display area consists of a trend graph display area, a date setting area, and a data display area.



The left and right hairline cursors in the trend graph display area can be freely moved with the mouse, and the values on the cursor at this time are displayed in the data display area.

Up to eight trend graphs are displayed in the trend graph display area, and the details of each trend tag are listed in the data display area.

The vertical axis of the trend graph displays the name and range of the tag selected in the list display in industrial units, and the horizontal axis displays the date and time.

The trend graph is drawn from left to right and can be changed depending on whether the reference time is at the right end or at the left end.

4.5.4 Trend graph date setting area

In the trend graph date setting area, you can scroll the trend graph and change the time width.

		>>		•	2 hours	8 hours	1 days	3 days	6 days	Latest>	2020/06/23 09:	:22:03	30 minutes	RealValue
1	L		2				3			4	5		6	7

No.	Name	Function
1.	Scroll	Scrolls through the trend graph.
2.	Scaling	Enlarges or reduces the trend graph.
3.	Time Width Selection	Sets the time width of the trend graph.
4.	Latest >	Sets the reference time of the trend to the latest time.
5.	Reference time	Clicking the reference time display area displays the date
		setting dialog box, which allows you to change the date.
		StandardDate X
		基準日時: 2017/10/24 🔶 10:27:10
		1/1 1日 0:00 x:00 x:xx:00
		今日 昨日 2日前 3日前 4日前
		<u>5日前 7日前 10日前 20日前 30日前</u>
		日曜 月曜 火曜 水曜 金曜 土曜 今週 先週 先回 先々週
		0:00:00 1:00:00 2:00:00 3:00:00 4:00:00 5:00:00
		6:00:00 7:00:00 8:00:00 9:00:00 10:00:00 11:00:00
		12:00:00 13:00:00 14:00:00 15:00:00 16:00:00 17:00:00
		18:00:00 19:00:00 20:00:00 21:00:00 22:00:00 23:00:00
		x:00:00 x:10:00 x:20:00 x:30:00 x:40:00 x:50:00
		OK Cancel
6.	Trend time width	Clicking on the trend time width display area displays the time
		width setting dialog box, which can be changed.
		■ Display Period ×
		30分 1時間 2時間 4時間 8時間 12時間 1日 2日 3日 7日 (1週間)
		14日 (2週間) 21日 (3週間) 30日 (約1万月)
		90日 (約357月) (約57月) (約57月) (約67月) (約7月) (約1年)
		OK Cancel
7.	Data Type	Displays the data type displayed in the trend graph.
		Click this button to display the time between the hairline
		cursors.

Data Type

When you change the trend time width, the data types that appear change automatically based on the time width, and the data that is stored in CSV-and Excel-formatted files is also based on the data type at that time.

Time Width	Display	Display contents
Within 3 hours	1 sec	Instantaneous value of 1 second cycle
Within 16 hours	5 sec	Average value of data collected at 5-second intervals
Within 33 hours	10 sec	Average of 10-second-interval aggregated data
Within 65 hours	20 sec	Average of tabulated data at 20-second intervals
Within 100 hours	30 sec	Average of 30-second-interval aggregated data
Within 130 hours	40 sec	Average of data collected at 40-second intervals
Within 160 hours	50 sec	Average value of data collected at 50-second intervals
Within 200 hours	60 sec	Average of tabulated data at 60-second intervals
Within 270 hours	80 sec	Average of data collected at 80-second intervals
Within 340 hours	100 sec	Average of data collected at 100-second intervals
Within 405 hours	120 sec	Average of data collected at 120-second intervals
Within 475 hours	140 sec	Average of data collected at 140-second intervals
Within 540 hours	160 sec	Average of data collected at 160-second intervals
Within 610 hours	180 sec	Average of data collected at 180-second intervals
Within 900 hours	240 sec	Average of data collected at 240-second intervals
Within 3 months	10 min	Average of data collected at 10-minute intervals
Within 5 months	15 min	Average value of 15-minute interval aggregated data
Within 7 months	22 min	Average of 22-Minute Interval Aggregated Data
Within 9 months	30 min	Average of 30-minute-interval aggregated data
Within one year	40 min	Average of data collected at 40-minute intervals

4.5.5 Trend graph data display area

For tags registered in the trend graph, the following items are displayed in detail.

Item	Description
Display	The check box can be used to toggle between visible and hidden.
Color	Indicates the color of the trend graph.
	With SUPERVISOR or higher privileges, you can change the colors by
	clicking.
Pen name	The pen name of the trend graph is displayed.
Unit	The industrial unit attached to the tag is displayed.
Updated value	Displays the value of the latest collected data for the tag.
Cursor 1	Indicates the value at the position of the hairline cursor on the left.
Cursor 2	Indicates the value at the position of the hairline cursor on the right.
Minimum value	Indicates the minimum value between the left and right hairline
	cursors.
Maximum value	Indicates the maximum value between the left and right hairline
	cursors.
Mean value	Indicates the average value between the left and right hairline cursors.
Lower limit setting	Indicates the value relative to the 0% position of the trend graph.
Upper limit setting	Indicates the value relative to the 100% position of the trend graph.

Double-click the pen in the trend screen to recall the faceplate of the tag.

If you right-click with the pen selected, a pull-down menu is displayed, allowing you to expand the corresponding tag to the registered screen, register or delete the copied tag in the graphics screen as a trend pen (PV value, SP value, MV value, or digit

Group ComparisonTrend AddPen(PV) AddPen(SP) AddPen(MV) AddPen(X) DelPen

4.5.6 Basic setting of trend

The following settings can be made in the basic settings in the "Setting menu" in the trend graph page change/registration area.

- Background color of the trend graph
- Crease color of trend graph
- Line thickness of trend graph
- Bar shading (enabled only for digital signals)
- Basic time setting of trend graph (left side or right side)

Registering Trends

The following items can be changed when operation permission above SUPERVISOR is given.

Item	Description
Group	You can select, rename, add, or delete trend groups.
Pen	You can change, add, and delete pens for trends.
Tag Search	You can search for tags that you want to add as trend pens by number,
	name, and type.
Add/Insert/Above	Searched tags can be added, inserted, or overwritten to the pen list.
Pen list	The position of the pen can be moved up and down to arrange them in
	the desired order.
	Color: Double-click to change the graph color.
	Pen name : Double-click to change the name.
	Lower limit setting : The 0% position of the trend graph can be
	changed.
	Upper limit setting : 100% position of trend graph can be changed.
	Scale low limit: The scale low limit position of the trend graph can be
	changed.
	Scale upper limit: The scale upper limit position of the trend graph can
	be changed.
Display setting	The display time of the trend group can be changed.

4.6 Tag monitor screen

Displays a tabular listing of information about tags and displays values for up to 50 tags in real time on a single screen.

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49.0 75.0 50.0 51.0
75.0 50.0 51.0
50. 51.
51.
50.4
25.
25.
0.
50.
50.

4.6.1 Tag monitor page change/registration area

The Tag Monitor page change/registration area has the following functions.

01:Control	¥	Tag monitor setting	< Setting Menu
	_	ر <i>چ</i>	

	r	
Function	Description	
Group combo box	Tag monitor group can be selected.	
Tag monitor registration	You can add/delete tag monitor groups and register/delete/change	
	tags in tag monitor groups.	
	Note that you need more than SUPERVIOR privilege.	
Setting menu	Perform tag monitor and output settings.	

Setting menu

Setting Save setting Print & Save Save Text Save CSV Print settings Do not page break Specify number of new page lines 60	Close >		
Save setting Print & Save Save Text Save CSV Print settings Do not page break Specify number of new page lines	Cotting		
Print & Save ↓ Save Text Save CSV • Print settings • Do not page break • Specify number of new page lines			
Save Text Save CSV			
Save CSV Print settings Do not page break Specify number of new page lines			
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 Do not page break Specify number of new page lines 		I	
Specify number of new page lines	Print settings		
	Do not page break		
	Specify number of new page lines	I	
		I	

Name	Function	
Close	Closes the Settings menu.	
Keep setting	Preserves the presence of icons and print	
	settings.	
Text printing	Display the alarm currently displayed in the	
	alarm display area in text using Notepad.	
CSV output	The alarm being displayed in the alarm	
	display area is saved in CSV format.	
No page break	Select if you do not want line breaks when	
	printing text.	
Page break with	Select this option to start a page break on a	
specified	designated line when text is printed.	
number of lines	The number of lines that can be specified for	
	page breaks can be changed.	

4.6.2 Tag monitor display area

•

The tag monitor display area displays the following information in a tabular format.

- Tag Number assigned to the tag
- Name Name attached to the tag
- Status 1 Displayed when an alarm is present
- Status 2 Indicates controller mode only for PID controller
 - PV value

Displays the current value of the process input.

SP value

Indicates the setting value for the controller tag.

MV value

Indicates the output value of the controller tag.

- Industrial unit Display industrial unit of process input value
- PV% Displays the process input value in the 0-100% range.
Double-click a tag in the Tag Monitor screen to recall a tag's faceplate.

If you right-click with a tag selected, a pull-down menu is displayed, allowing you to expand to the screen where the corresponding tag is registered, or to add, insert, or delete the copied tag in the graphics screen. You must have at least SUPERVISOR privileges to add, insert, or remove tags.

Group
Trend
ComparisonTrend
AddTag
InsertTag
DelTag

Registering to Tag Monitor

The following items can be changed when operation permission above SUPERVISOR is given.

Item	Description	
Group	You can select, rename, add, or delete tag monitor groups.	
Display count	You can set the number of tags to be displayed on the tag monitor screen. A	
setting	maximum of 50 tags per screen.	
Tag Search	You can search tags that you want to register on the tag monitor screen by	
	number, name, and type.	
Add/Insert	You can add or insert a searched tag to the selection tag list.	
Select tag list	You can move the selected tags up or down in the desired order or remove	
	them from the list.	

4.7 Event history window

Displays the history of ON/OFF status of equipment and facilities. The history retention period is one year. In the initial display, you can display up to 5000 records of one day's worth of data from the displayed time.



4.7.1 Event search/Setting area

Search conditions < Setting 2020/06/22 09:59:14 <> 2020/06/23 09:59:14 Tagname: Descriptor:	
	ig Menu
2020/06/22 09:59:14 <-> 2020/06/23 09:59:14 Tagname: Descriptor:	

-	1		2			
	No.	Name	Function			
	1	Period selection	Event history information can be retrieved by period.			
		condition	Left Side : Search period start date and time			
			Right Side : Search period end date and time			
			The calendar is displayed and can be set.			
	2	Search condition	Event history information can be searched by tag and tag name.			
	3	Setting menu	Displays menus related to event history settings.			

Setting menu

Close >	Item	Description
	Close	Closes the Settings menu.
	Renewal	The event history information is always
Screen display V Refresh	display	updated.
Setting V	Keep setting	Keeps the print settings.
Save setting Print & Save	Text printing	Text is displayed using Notepad for the event
Save Text Save CSV		displayed in the event history display area.
Save CSV SearchFunction	CSV output	Saves the displayed event in the event history
DetailedSearch		display area in CSV format.
	Detailed	This function is used to set conditions in
	search	addition to the conditions in the event history
		search/setting area.
 Search · display settings 	Maximum	Sets the maximum number of events to search.
Maximum number of search targets	number of	
5000	searches	
Display maximum number of screen list	Maximum	Sets the maximum number of event histories to
	number of	be displayed on the screen.
Print settings Do not page break	screen list	
Specify number of new page lines	displays	
60	No page break	Select if you do not want line breaks when
		printing text.
	Page break	Select this option to start a page break on a
	with specified	designated line when text is printed.
	number of	The number of lines that can be specified for
	lines	page breaks can be changed.

4.7.2 Event history display area

In the event history display area, it is displayed as follows.

- Operation (ON) time
 Date and time the operation or signal was turned on
- Stop (OFF) time Date and time when the stop or signal was turned OFF
- Description Event content (tag, tag name, event source)

Displayed color of events: Orange color at operation or on: Green color at \rightarrow or off

The event history search function is similar to the alarm search function. Refer to the alarm history section.

4.8 Operation history screen

Displays the change history of information related to tags from this machine in chronological order. The history retention period is one year. In the initial display, you can display up to 5000 records of one day's worth of data from the displayed time.

Operation bistory search/setting area 2020/06/22 10:01:55 > 2020/06/23 10:01:55 Pescriptor Operation Date Tagname Descriptor Before change After change 2020/06/23 09:27:39 MX0005.TSW Spare[TSW] TestMode -> Normal 2020/06/23 09:27:39 MX0005.TSW Spare[TSW] Normal -> TestMode 2020/06/23 09:27:39 MX0005.TSW Spare[TSW] Normal -> TestMode 2020/06/23 09:27:39 MX005.TSW Spare[TSW] Normal -> TestMode 2020/06/23 09:03:00 MTIA_10LSP Left Stack[LSP] 0°C -> 800°C 2020/06/23 09:02:47 Start MeL Simulation[X] +> Start MeL Simulation[X] -> START	5	_			< Setting Me	nu
Operation Date Tagname Descriptor Before change After change 2020/06/23 09:27:39 MX0005.TSW Spare[TSW] TestMode -> Normal 2020/06/23 09:27:13 MX0005.TSW Spare[TSW] Normal -> TestMode 2020/06/23 09:27:13 MX0005.TSW Spare[TSW] Normal -> TestMode 2020/06/23 09:27:00 MTIA_10.LSP Left Stack[LSP] 0°C -> 600°C 2020/06/23 09:03:00 MTIA_8.HSP Reg. Crown Left[HSP] 1600°C -> 800°C	Period conditions		peration history search/se	etting area		
2020/06/23 09:27:39 MX0005.TSW Spare[TSW] TestMode -> Normal 2020/06/23 09:27:13 MX0005.TSW Spare[TSW] Normal -> TestMode 2020/06/23 09:27:13 MX0005.TSW Spare[TSW] Normal -> TestMode 2020/06/23 09:26:20 MTIA_10.LSP Left Stack[LSP] 0°C -> 600°C 2020/06/23 09:03:00 MTIA_8.HSP Reg. Crown Left[HSP] 1600°C -> 800°C					After change	
2020/06/23 09:27:13 MX0005.TSW Spare[TSW] Normal -> TestMode 2020/06/23 09:16:20 MTIA_10.LSP Left Stack[LSP] 0°C -> 600°C 2020/06/23 09:03:00 MTIA_8.HSP Reg. Crown Left[HSP] 1600°C -> 800°C						
2020/06/23 09:16:20 MTIA_10.LSP Left Stack[LSP] 0°C -> 600°C 2020/06/23 09:03:00 MTIA_8.HSP Reg. Crown Left[HSP] 1600°C -> 800°C						
2020/06/23 09:03:00 MTIA_8.HSP Reg. Crown Left[HSP] 1600°C -> 800°C						
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			Uperation history displa	ay area		
Operation history display area						
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4.8.1 Operation history search/setting area

	3
$\ddot{\mathbf{O}}$	< Setting Menu
Period conditions Search conditions 2020/06/22 10:01:55 <-> 2020/06/23 10:01:55 Tagname: Descriptor:	

1		2
No.	Name	Function
1	Period selection	Operation history information can be searched by period.
	condition	Left Side : Search period start date and time
		Right Side : Search period end date and time
		The calendar is displayed and can be set.
2	Search condition	You can search the operation history information by tag and tag
		name.
3	Setting menu	Displays the menus related to the operation history setting.

Close >	Item	Description
	Close	Closes the Settings menu.
	Renewal	The event history information is always
Screen display 🗸 🗸	display	updated.
Refresh	Keep setting	Keeps the print settings.
Setting 🗸 🗸		
Save setting	Text printing	Text is displayed using Notepad for the
Print & Save		event displayed in the event history display
Save Text Save CSV		area.
SearchFunction V	CSV output	Saves the displayed event in the event
DetailedSearch	·	history display area in CSV format.
	Detailed	This function is used to set conditions in
	search	addition to the conditions in the event
		history search/setting area.
	Maximum	Sets the maximum number of events to
• Search · display settings	number of	search.
Maximum number of search targets	searches	
Display maximum number of screen list	Maximum	Sets the maximum number of event
5000	number of	histories to be displayed on the screen.
Print settings	screen list	
 Do not page break 	displays	
Specify number of new page lines	No page break	Select if you do not want line breaks when
60		printing text.
	Page break	Select this option to start a page break on a
	with specified	designated line when text is printed.
	number of	The number of lines that can be specified
	lines	for page breaks can be changed.

Setting menu

4.8.2 Operation history display area

In the operation history display area, it is displayed as follows.

- Operation change date and time: Date and time when the operation change was performed
- Tag: Tag that performed the operation change
- Name: Name of the tag for which the operation change was performed
- Value before change: Value before operation change
- Value after change: Value after operation change

The operation history search function is similar to the alarm search function. Refer to the alarm history section.

5. Report function

This operator station has a standard report function which can create, print, and save daily, monthly, and yearly reports as files.

5.1 Report screen

On the report screen, you can display pre-set reports, report operations such as printing, and set reports. In addition, up to 18 tags can be registered in one report at this operator station.

The data required to create the report that is older than one year is automatically deleted. For long-term storage, print it out in Excel report and save it.

Daily Mo	onthly Annu	ual 202	0/06/23	Form se		etting a	ICa <col< th=""><th>lection Report</th><th>< Setting Print&Output Me</th></col<>	lection Report	< Setting Print&Output Me
	Gas	Gas	Combustion	Combustion	Furnace	Furnace	Throat	ITV	
	flow	flow	Air Flow1	Air Flow2	Pressure	Pressure	[Report]	Water Cooling	
	SP	PV	SP	PV	SP	PV		Temp.	
	GFIC.SP	GFIC.PV	AFIC.SP	AFIC.PV	MPIC.SP	MPIC.PV	MND2054.PV	MND2068.PV	
	Nm3/h	Nm3/h	m3	Nm3/h	Nm3/h	Pa	°C	°C	
0									
1									
2									
3									
4									
5									
6									
7									
8	0	0	0	0	0.0	0.0	0	0	
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10									
11									
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14									
15									
17									
18									
19									
20									
21									
22									
23									
Total							0	0	
Ave	0	0	0	0	0.0	0.0	0	0	
Max	0	0	0	0	0.0	0.0	0	0	
Min	ů 0	0	0	0	0.0	0.0	0	0	

5.1.1 Report search/setting area

1	l	2		3		
Report Turnace		e Report #1_Daily	1/4 🖌 🕨	Report setting		
Daily Mc	onthly Annual 2020/06/23	l 🕨 Today	<collection report<="" th=""><th>< Setting Print&Output Menu</th></collection>	< Setting Print&Output Menu		
4	4 5		6	7		
No.	Name	Function				
1	Group combo box	The report group can be selected.				
2	Report page selection	The report page can b	be changed with the ar	row buttons.		
3	Registration of reports	You can add or delete report pages, change tags in reports, and				
		change names.				
		Note that you need m	ore than SUPERVIOR	privilege.		
4	Change of report type	You can change the report to be displayed on the screen.				
5	To change the report	You can specify the date of the report to be displayed on t				
	date	screen.				
6	Report revision	Used to correct the report data.				
		Note that you need m	ore than SUPERVIOR	privilege.		
7	Print/Output Menu	Printing and output o	f reports can be set.			

5.1.2 Print/Output Menu

Close >		Item	Description
Print & Save	\sim	Close	Closes the Settings menu.
Display page Display group all	~	View Page	When report print or Excel is displayed, only the currently displayed report page is
Report printing Excel display Save CSV: Display page only EXCEL display method		Display group	displayed. When report print or Excel is displayed, all pages in the currently displayed report
Maximum display	✓		group are displayed.
Other	\sim	All groups	When report print or Excel is executed, all
Browse storage location			report groups and all pages are output.
		Report	Execute report printing.
		printing	
		Excel display	Displays the report in Excel report.
		CSV output :	Only the currently displayed report page is
		Display Pages	output as numerical data in CSV report.
		Only	
		Maximize	When Excel report is displayed, it is
		display	maximized and displayed.
		See storage	Display the folder in which the form data
		location	is saved in File Explorer.

5.1.3 Reports display area

Report data is displayed in the Report display area.

There are five headers in the upper row, report items are displayed, and "total value", "average value", "maximum value", and "minimum value" are displayed in the lower row.

In the case of a daily report, the data for each day is displayed, in the case of a monthly report, and in the case of a yearly report, the data for each year is displayed. However, in the case of a monthly report, a blank space is left in the place where

	Gas	Gas	Combustion	Combustion	Furnace	Furnace	Throat	ITV
	flow	flow	Air Flow1	Air Flow2	Pressure	Pressure	[Report]	Water Cooling
	SP	PV	SP	PV	SP	PV	property	Temp.
	GFIC.SP	GFIC.PV	AFIC.SP	AFIC.PV	MPIC.SP	MPIC.PV	MND2054.PV	MND2068.PV
	Nm3/h	Nm3/h	m3	Nm3/h	Nm3/h	Pa	°C	°C
0	remoyn	i vina,n	110	ransyn	ransyn	10		
1								
2								
3								
4								
5								
6								
7								
8	0	0	0	0	0.0	0.0	0	0
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
Total							0	0
Ave	0	0	0	0	0.0	0.0	0	0
Max	0	0	0	0	0.0	0.0	0	0
Min	0	0	0	0	0.0	0.0	0	0
		,						
(

5.1.4 Correction of report data

The report data can be corrected by manual entry, but it requires more than SUPERVISOR privilege.

Daily Monthly Annual	Collection Collection Cell Copy Cell Past Re-count Close >
Name	Function
Initiation of correction	Select the report to be corrected (daily, monthly or annual report) and
	click the start of correction to change the value of the desired part in the
	report display area.
Corrective saving	Reflect the corrected data.
	If the daily report is adjusted, it will be reflected in all daily reports.
	If the monthly report is adjusted, it will be reflected in all monthly
	reports.
	If the annual report is revised, it will be reflected in all annual reports.
Coverage copy	Copy the area to be edited by specifying the range.
Range attachment	Click Start correction, and paste the copied contents from the selected
	cell.
Re-tabulation	Recalculate the currently displayed report.
	When the daily report is displayed, the data will be recollected based on
	the actual collected data.
	When the monthly report is displayed, it is recollected based on the
	daily report data.
	While the annual report is displayed, the monthly report data is
	re-tabulated based on the monthly report data.

5.1.5 Registration of reports

The following items can be changed when operation permission above SUPERVISOR is given.

Report Configuration											×
Report group —			Report page								
Report	bbA 🔻	Del	Page title: Furnace R	eport #1					1/4	<previous< td=""><td>Next></td></previous<>	Next>
	rm group setting area		Form layout: HLTEXT (Max	FO	rm r	nage	e set	tting	area	auto print	Daily auto output
10	in group secting area		HETEXT (Max	18Field) - •	· · · · · (6		hly auto print	Monthly auto output
				🗸 Tota	Ι 🔽 Αν	ve 🗸	Max	🗸 м		al auto print	Annual auto output
						~		~	Anna		Annual auto output
Report field			< Expansion	Up	Dow	n	Blank	: .	Del		
-Search conditior	1-		HistoricalTagname	Total	Ave	Max	Min	Widt	Header1	Header2	Header3
Tag:	Desc.:		MND2176.PV AVG		V	~	1	-1	Gas	flow	SP
Type: ALL	T		MND2008.PV AVG		7	1	1	-1	Gas	flow	PV
			MND2172.PV AVG		7 7	✓ ✓	✓ ✓	-1 -1	Combusti Combusti	Air Flow1 Air Flow2	SP PV
Tagname	Desc.	Add>	MND2002.PV AVG MND2170.PV AVG		J	<i>v</i>	✓ ✓	-1	Furnace	Pressure	SP SP
	QQ		MND2000.PV AVG		7	~	~	-1	Furnace	Pressure	PV
MND2000.PV	Furnace Pressure[Report]	Insert>	MND2054.PV AVG	1	7	~	1	-1	Throat	[Report]	
MND2002.PV	Combustion Air Flow[Report]		MND2068.PV AVG	1	J	1	1	-1	ITV	Water Coolin	Temp.
MND2004.PV	Spare[Report]	Overwrite>									
MND2006.PV	Glass Leveler[Report]										
MND2008.PV	Gas flow[Report]										
MND2010.PV	ME Bridge Wall Temp.[Report]	lag regis	stration area on	the fo	rm p	bage					
MND2012.PV	Left Draft Pressure[Report]				1	0					
MND2014.PV	Right Draft Pressure[Report]										
MND2016.PV	Spare[Report]										
MND2018.PV	Spare[Report]										
MND2020.PV	Spare[Report]										
MND2022.PV	ME Crown1[Report]										
MND2024.PV											
MND2026.PV											
MND2030.PV	Exhaust Fan Current/Report]	T									
Tag classification sele										Ψ.	
•	Tag Calculation tag		•								►
								-)(
									OK	Cancel	Apply

Item	Description
Report group	Report groups can be selected, renamed, added, and deleted.
Report page	Page title
	The name of the report page can be changed.
	If there are multiple pages, press the previous/next button to change
	the page.
	Report layout
	Set the format for displaying in Excel format.
	Report display items
	You can select the items (Total, Average, Maximum, Minimum) to be
	displayed in the selected report page.
	Report auto print/output setting
	Print output at the closing time of the selected report page and file
	output in Excel reportat can be set.
Report field	Search condition
	When you search by tag number, name, or type, the tags that match the
	conditions are displayed.

Operator Station (S-System2) Functional Specifications

Item	Description
Add>	Select the tag displayed in Search and add it at the bottom of the report tag.
Insert >	Select the tag displayed in Search and insert it at the selected position in the
	report tag.
Override>	Select the tag displayed in Search and overwrite it to the selected position of
	the report tag.
Tag type	Select normal tag or operation tag.
Tag registration	Total, average, maximum, and minimum
area	Check this to display the desired value.
	Width
	Enter this to specify the width of the report. (Initial value-1)
	Headers 1-5
	Fill in the name of the report item, etc.
Extension	The report tag registration area can be expanded and entered easily.
Upper	Moves the selected tag up one line.
Bottom	Moves the selected tag down one line.
Blank	Inserts a blank line below the selected tag by one line.
Delete	Deletes the selected tag one line.

6. Other screens and functions

6.1 Switch utility screen

Data in the PLC can be referenced. This function is not used in normal operation/monitoring operation. However, you can use this screen to refer to data in the PLC with SUPERVISOR privilege and operate data in the PLC with ENGINEER permission.

When using PLCs manufactured by Mitsubishi Electric Corporation (MELSEC Q series or iQ-R series), use MEL Utility.

When using a PLC (SYSMAC CS series or CJ series) manufactured by OMRON Corporation, use CS Utility.

MEL P	LC Node: Furnace	PLC		PLC cha	nge area			bocccablwha internal register	o <mark>mskingelanges</mark> of the <mark>PLC</mark> .
Wor X V	d Monitor	Word	d Monitor	Word	d Monitor		Monitor		it Monitor
Display Config	<u>_</u>	Display Config	uration	Display Config		Display Config			
1WORD 2WORD	✓ Signed	1WORD 2WORD	✓ Signed	1WORD 2WORD	🖌 Signed	1WORD 2WORD	✓ Signed	X v	0
								X T	0
								X v	
								X v	0
								X	0
								X Y	0
]	DI	C data d	lisplay ar			X v	0
				C uata u	lisplay al			X	0
								X V	0
								X T	0
								X v	
								X v	0
								X T	0
								X v	0
								1	

6.1.1 PLC change area

MEL PLC Node: FurnacePLC		Riesse bocareful when making changes to the internal register of the RIG.
--------------------------	--	------------------------------------------------------------------------------

The PLC to be referenced can be changed in the combo box.

6.1.2 PLC data display area

Displays the internal data of the PLC.

SUPERVISOR Privilege does not allow you to view and set the data in the PLC. ENGINEER Privilege allows you to operate the data in the PLC. However, the warning screen is displayed first. Be careful when operating the PLC.

[Word Monitor]

When address type is selected and address is entered, continuous data of 20 words is displayed. To change the data, enter the desired value in the field to the right of the displayed data.

[Bit Monitor]

When you select an address type and enter an address, each value is displayed. When the value is ON, the button is displayed in red, and when it is OFF, it is displayed in gray. To change the data, click the button.

6.2 System screen

The System screen is used to set the system functions of the operator station.

To use this window, you must have permission to operate ENGINEER.



6.2.1 System functions menu

Selecting a function from the System Functions menu displays a menu related to the selected function in the System Functions screen area.

Function	Description
External start	This function starts an external application.
setting	Use the Start button to start the displayed application.
Time setting related	This window is used to set the time of PCs and PLCs with SUPERVISOR
	or higher privilege.
	When two servers are used, there is a function to synchronize the time,
	synchronize the time of the client machine to the server, and reflect the
	date of the PC to the PLC.
Menu-related	You can rename the created graphics screen, select "Used"/"Unused"(if
	unused), and set the screen order to be displayed in the left menu with
	the privileges above SUPERVISOR.
	You can also change the name and display position of bookmarked
	screens.
Related of faceplates	Parameter operation permission information and display delay setting
	time in the faceplate can be checked.
	You can also set operational limits for a particular faceplate with
	SUPERVISOR or higher privileges.
Schedule Related	The specified tag can be turned ON according to the set schedule.
Extensions	In addition, the status of the hard disk mounted on the PC is checked
	based on the set schedule, and an alarm is issued if an abnormality is
	detected.
	The user holder cleaner deletes the output CSV file and the txt file
	according to the schedule set.
Configuration	When multiple server units are used, this function allows the settings of
Synchronization	other server units to be set to the same setting.
Connection-related	You can use ENGINEER privilege to view the communication data with
	the PLCs you are using and switch to the other when disconnecting,
	changing connections, or making duplexing.
Server Details	With ENGINEER privilege, you can set the time synchronization master
	PC, change the access level password, and restart the system.

6.2.2 Shutdown related extensions

This function performs shutdown of this system. This will not stop the PLC.

Function	Description
Restart	Restarting View (Display)
	The screen can be restarted with the privileges above OPERATOR.
	Note that the data collection function does not stop.
	When changing the graphics screen, this function allows you to reflect
	the changes without stopping data collection.
Shutdown	Various shutdown menus for the server are available with SUPERVISOR
	or higher privileges.
	View (Display) + Server (Collection) Shutdown
	Stop the screen, alarm monitoring, and data collection functions.
	View (Window) + Server (Collection) Restart PC after Shutdown
	Stop the screen, alarm monitoring, and data collection functions, and
	restart the PC. Note that this system does not start automatically.
	View (Window) + Server (Collection) Power Off After Shutdown
	Stop the screen, alarm monitoring, and data collection functions, and
	turn off the PC.

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