



FS Dashboard Function Instruction Manual

Ver. 4.0

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Introduction

Thank you for purchasing the FS Dashboard function (called the dashboard function below). This document describes how to use the dashboard function.

The dashboard function allows you to edit the screen layout and create screens in line with the layout of factory or other facilities in the web browser and to display the lit or blinking state of monitored and managed signal tower in Flex Signal (*1).

(*1) For details on Flex Signal, see the Flex Signal Instruction Manual.

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1. Screen Description

1-1. Terminology

This section introduces the terms related to the dashboard function. These terms are used for description purposes in this manual.

(1) Site IP address

IP address of the PC where Flex Signal is installed

(2) Dashboard

Screen you create by editing the layout with the dashboard function

(3) Dashboard No.

Number of the dashboard managed by this system

(4) Signal tower No.

Number of the signal tower managed by Flex Signal

(5) [Monitor submenu]

"Monitor" submenu described in "1-3. Menu" in the "Flex Signal Instruction Manual"

(6) Invalid characters

* ; & " ' \$ # @ \ < >

These characters cannot be entered on the screen.

1-2. Accessing the dashboard function

(1) Accessing the dashboard

The address of the dashboard is as shown below. Specify the following address in the web browser (such as Internet Explorer) to access the dashboard.

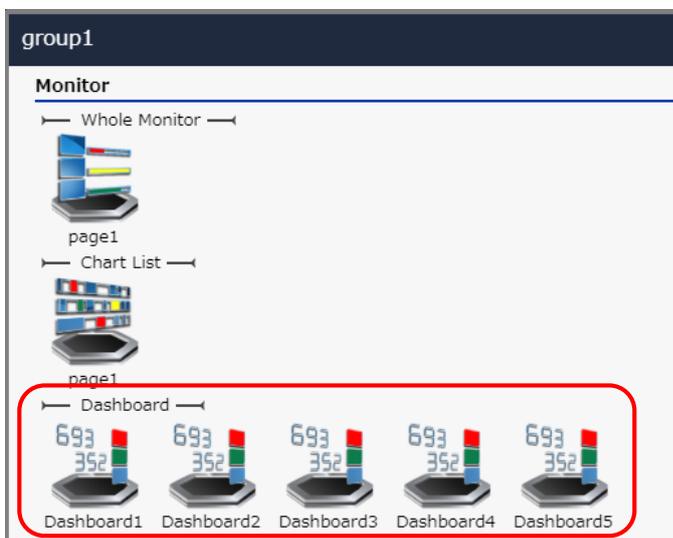
[http://\[Site IP address\]/FSDashboard/View/Dashboard\[Dashboard No.\].html](http://[Site IP address]/FSDashboard/View/Dashboard[Dashboard No.].html)

* Specify the dashboard No. of the dashboard you want to access in [Dashboard No.].

(2) Accessing the dashboard from Flex Signal

Go to the selected dashboard from "MENU" - "Monitor" submenu in Flex Signal.

* For details on "MENU," see "1-3. Menu" in the "Flex Signal Instruction Manual."



* Dashboards can be named on the screen described in "1-3. Dashboard list."

* The "MENU" - "Monitor" submenu does not display dashboards for which "Menu order" is set to "None" on the screen described in "1-3. Dashboard list."

(3) Accessing the dashboard editing page

The address of the dashboard editing page is as shown below. Specify the following address in the web browser (such as Internet Explorer) to access the dashboard. When you successfully access the page, the screen described in "1-3. Dashboard list" appears.

[http://\[Site IP address\]/FSDashboard/](http://[Site IP address]/FSDashboard/)

1-3. Dashboard list

This screen is used to save dashboard settings.

On this screen, you can save settings such as dashboard names.

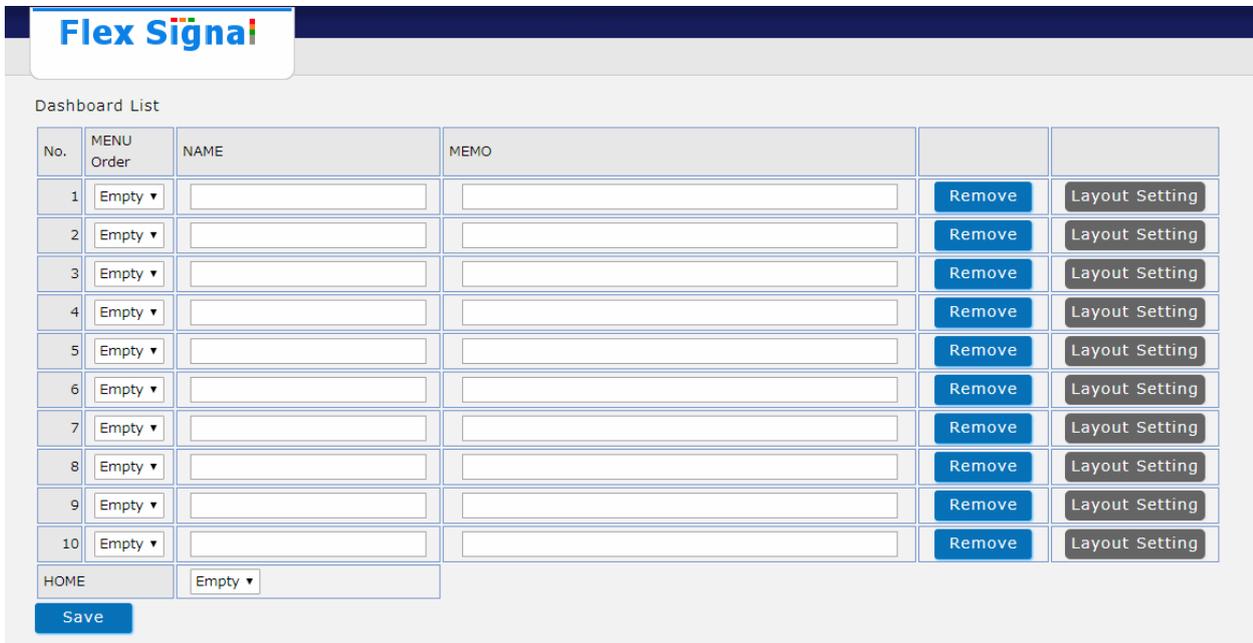


Figure 1: Dashboard list

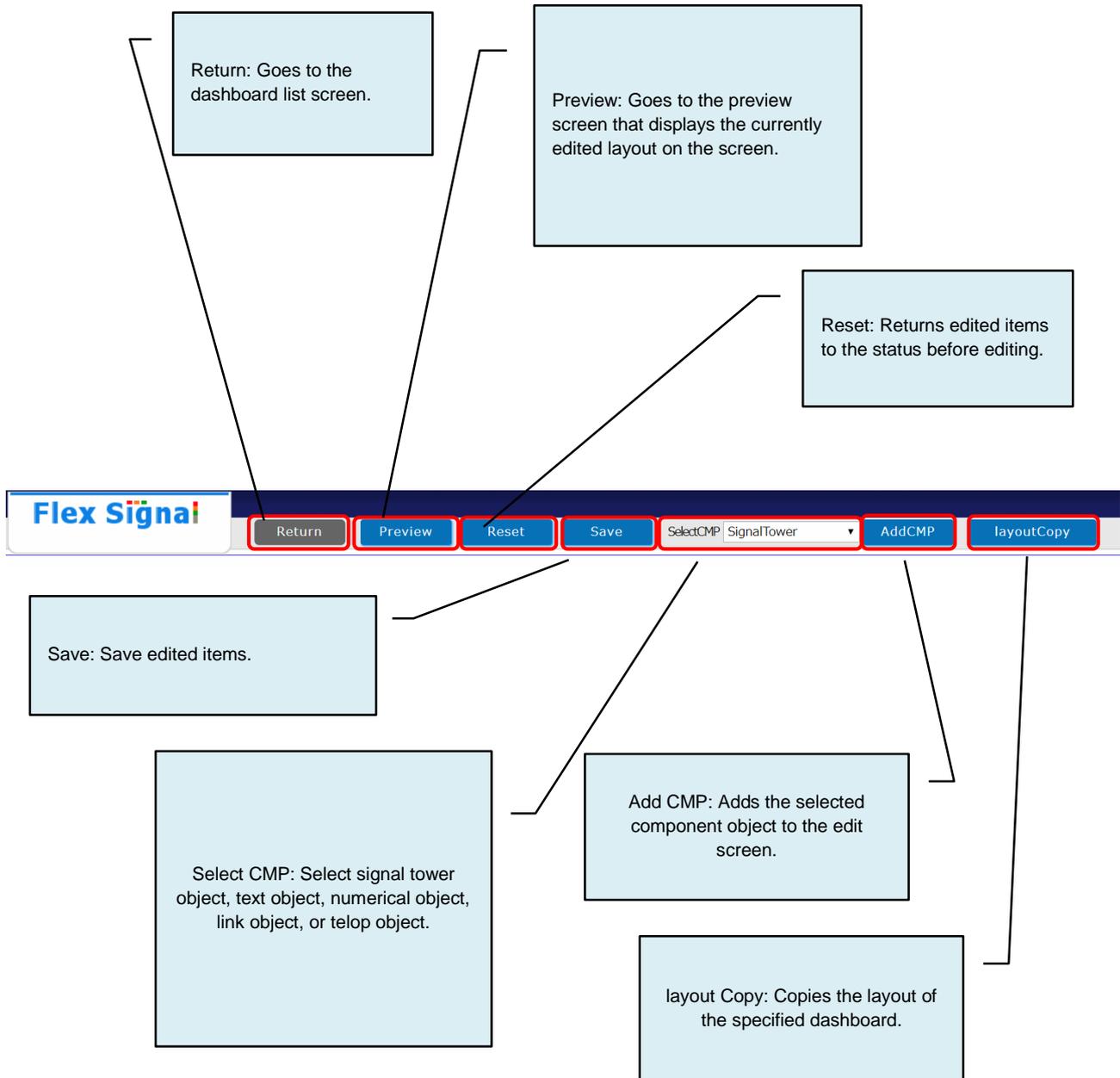
Table 1: Description of the dashboard list

No.	Item	Description
1	No.	Displays the dashboard No.
2	MENU order	Select the display order on the "MENU" - "Monitor" submenu. * If "None" is selected, the corresponding dashboard is not displayed on the "MENU" - "Monitor" submenu.
3	NAME	Specify the dashboard name. * This item is displayed on the "MENU" - "Monitor" submenu.
4	MEMO	Enter a description or special notes on the dashboard, if any.
5	Remove	Clears the settings for the target dashboard.
6	Layout Setting	Goes to the screen to edit the target dashboard described in "1-4. Layout editing."
7	Home	Select the dashboard No. of the dashboard you want to use as the home screen of Flex Signal. * If "None" is selected, this item is not set.
8	Save	Save the settings for the target dashboard.

1-4. Layout editing

(1) Menu

The edit menu is displayed at the top section of the layout editing screen.



(2) Layout editing

This screen is used to edit the dashboard layout.

On this screen, you can edit the layout, for example by specifying a background image or placing component objects such as signal tower objects or text objects.

* You can place component objects anywhere on the screen by dragging them.

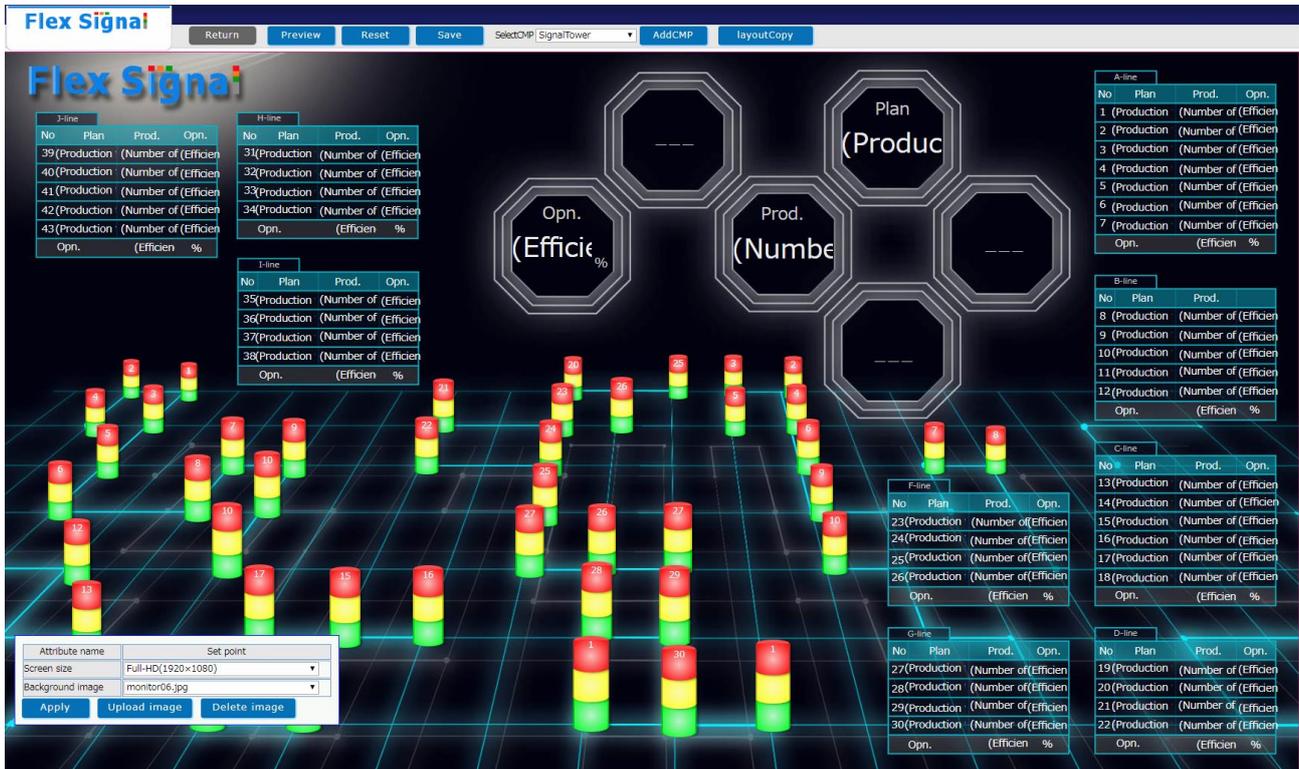
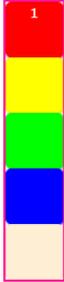
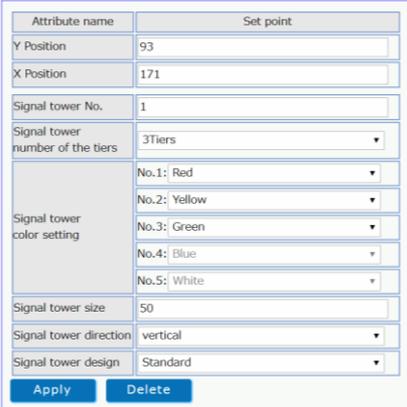
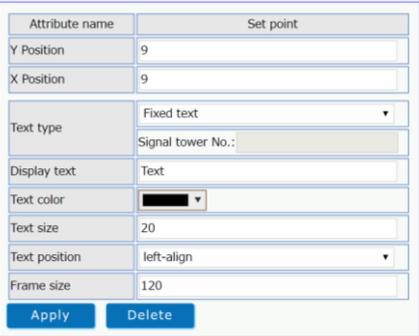


Figure 2: Layout editing

Table 2: Description of layout editing

No.	Item		Description
1		Screen object edit window	Window that appears when you select the background. For details on the window, see "Table 3: Screen object edit window."
2		Signal tower object	Allows you to set up the signal tower displayed on the dashboard. The selected signal tower object is enclosed by a pink border. You can select and place this object anywhere on the screen. The number on the top tier of the signal tower object is the signal tower No.
3		Signal tower object edit window	Window that appears when you select a signal tower object. For details on the window, see "Table 4: Signal tower object edit window."
4		Text object	Allows you to set up the text displayed on the dashboard. The selected text object is enclosed by a pink border. You can select and place this object anywhere on the screen.
5		Text object edit window	Window that appears when you select a text object. For details on the window, see "Table 5: Text object edit window."

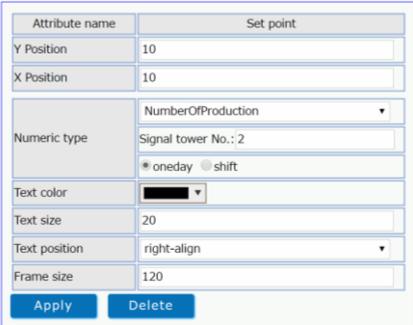
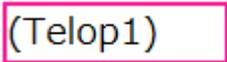
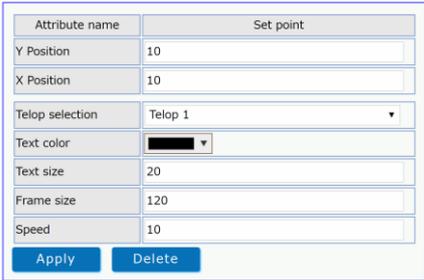
<p>6</p>		<p>Numerical object</p>	<p>Allows you to set up the numerical value displayed on the dashboard. The selected text object is enclosed by a pink border. You can select and place this object anywhere on the screen.</p>
<p>7</p>		<p>Numerical object edit window</p>	<p>Window that appears when you select a numerical object. For details on the window, see "Table 6: Numerical object edit window."</p>
<p>8</p>		<p>Link object</p>	<p>Allows you to set up the link displayed on the dashboard. The selected link object is enclosed by a pink border. You can select and place this object anywhere on the screen.</p>
<p>9</p>		<p>Link object edit window</p>	<p>Window that appears when you select a link object. For details on the window, see "Table 7: Link object edit window."</p>
<p>10</p>		<p>Telop object</p>	<p>Allows you to set up the telop displayed on the dashboard. The selected telop object is enclosed by a pink border. You can select and place this object anywhere on the screen.</p>
<p>11</p>		<p>Telop object edit window</p>	<p>Window that appears when you select a telop object. For details on the window, see "Table 8: Telop object edit window."</p>

Table 3: Screen object edit window

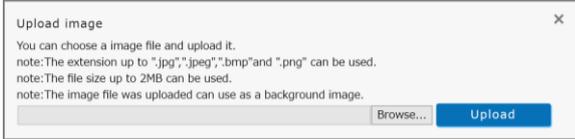
Item	Description
	<p>Screen size</p> <p>Select the size suitable for the size of the PC screen on which the dashboard is displayed. Select SVGA (800 x 600), XGA (1024 x 768), SXGA (1280 x 1024), Full-HD (1920 x 1080) or 4K (3840 x 2160). * The layout edit screen displays the red frame with the specified screen size.</p>
	<p>Background image</p> <p>Select the image suitable for the size of the PC screen on which the dashboard is displayed. * The layout edit screen displays the background image that fits into the frame with the specified screen size.</p>
	<p>Apply</p> <p>Applies the specified screen size and background image. * Pressing the Enter key also applies them.</p>
	<p>Upload image</p> <p>The image upload settings dialog box pops up.</p>
	<p>Image upload settings</p> <p>The image upload settings dialog box shown below pops up.</p>  <p>Specify the image you want to upload from "..." When you select "Upload" after specifying an image, that image is uploaded.</p>

Table 4: Signal tower object edit window

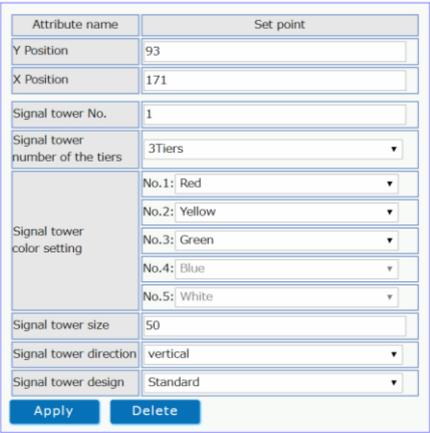
Item	Description	
	Y position	Specify the Y coordinate position of the signal tower object.
	X position	Specify the X coordinate position of the signal tower object.
	Signal Tower No.	Specify the signal tower No.
	Number tower number of tiers	Select the number of tiers of the signal tower object.
	Signal tower color settings	Select the color for each tier of the signal tower object. Select red, yellow, green, blue or white.
	Signal tower size	Specify the size of the signal tower object.
	Signal tower dirrection	Select the orientation of the signal tower object. Select portrait or landscape.
	Signal tower design	Select the design of the signal tower object. Select standard, three dimension, plane or cylinder.
	Apply	Applies the settings for the signal tower object. * Pressing the Enter key also applies them.
	Delete	Deletes the signal tower object.

Table 5: Text object edit window

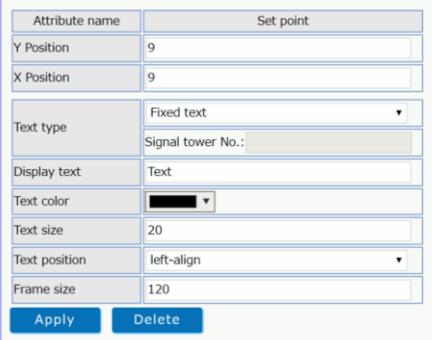
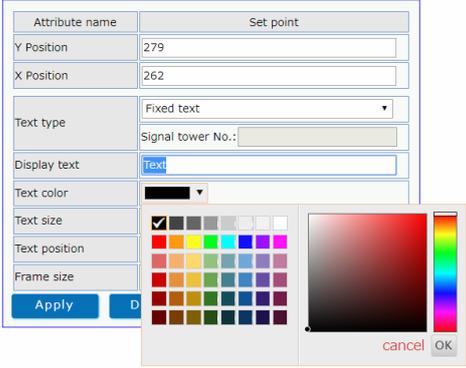
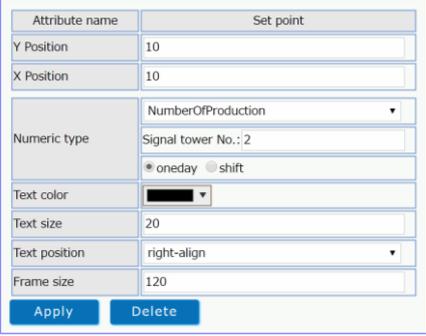
Text object edit window		
	Y position	Specify the Y coordinate position of the text object.
	X position	Specify the X coordinate position of the text object.
	Text type	Select the text category. Select fixed text, signal tower name or line name. <ul style="list-style-type: none"> Fixed text: Displays the text specified in "Displayed text." Signal tower name: Displays the signal tower name of the specified signal tower No. Line name: Displays the line name of the specified signal tower No.
	Signal tower No.	Specify the signal tower No.
	Displayed type	Specify the text to be displayed. When "Text category" is "Fixed text," you can enter any text desired.
	Text color	Select the color of the text object.  You can specify whatever color you like from the pallet.
	Text size	Specify the character size of the text object.
	Text position	Select the display position in the text object display frame. Select left-aligned, centered or right-aligned.
	Frame size	Specify the size of the text object display frame.
	Apply	Applies the settings for the text object. * Pressing the Enter key also applies them.
Delete	Deletes the text object.	

Table 6: Numerical object edit window

Numerical object edit window		
	Y position	Specify the Y coordinate position of the numerical object.
	X position	Specify the X coordinate position of the numerical object.
	Numerical type	<p>Select the numerical category.</p> <ul style="list-style-type: none"> • Number of production: Displays the production volume for the specified signal tower No. • Production target: Displays the target production volume for the specified signal tower No. • Efficiency: Displays the operation rate for the specified signal tower No. • Production rate: Displays the production achievement rate for the specified signal tower No. • Production tact time: Displays the production cycle time for the specified signal tower No. • Operation time: Displays the operating time for the specified signal tower No. • Longest operation time: Displays the maximum operating time for the specified signal tower No. • Alarm time: Displays the abnormal time for the specified signal tower No. • Alarm count: Displays the number of errors for the specified signal tower No. • Alarm rate: Displays the error rate for the specified signal tower No. • Longest alarm time: Displays the maximum abnormal time for the specified signal tower No. • Performance: Displays the performance for the specified signal tower No. • OEE: Displays the total equipment efficiency for the specified signal tower No. • Quality: Displays the quality for the specified signal tower No.

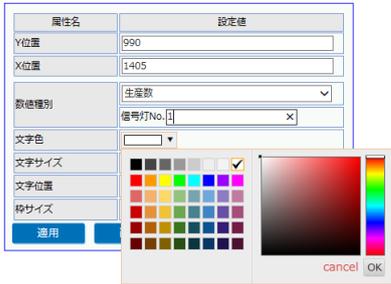
		<ul style="list-style-type: none"> • Good products: Displays the number of good products for the specified signal tower No. • Defective products: Displays the number of defective products for the specified signal tower No. • Theoretical output: Displays the number of producible products for the specified signal tower No. • Watch Time: Displays the monitoring time for the specified signal tower No. • Differences: Displays the differences for the specified signal tower No.
	Signal tower No.	Specify the signal tower No.
	Display	Select one-day display or shift display. * One-day display and shift display are only applicable to "Production volume," "Operation rate," "Operating time," "Maximum operating time," "Abnormal time," "Error count," "Error rate," and "Maximum abnormal time."
	Text color	<p>Select the color of the numerical object.</p>  <p>You can specify whatever color you like from the pallet.</p>
	Text size	Specify the character size of the numerical object.
	Text position	Select the display position in the numerical object display frame. Select left-aligned, centered or right-aligned.
	Frame size	Specify the size of the numerical object display frame.
	Apply	Applies the settings for the text object. * Pressing the Enter key also applies them.
	Delete	Deletes the text object.

Table 7: Link object edit window

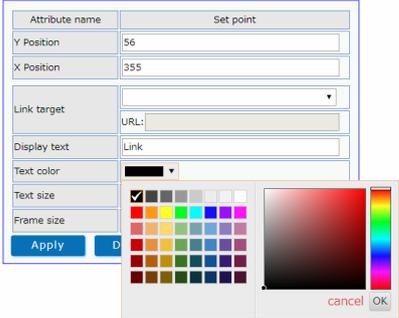
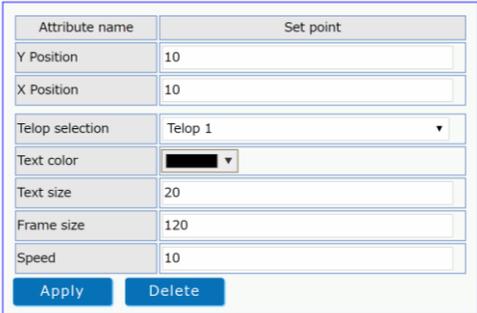
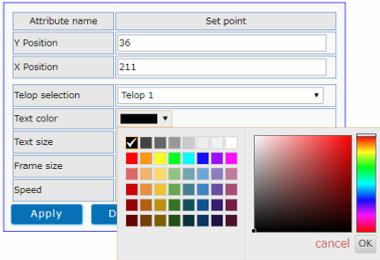
Link object edit window		
	Y position	Specify the Y coordinate position of the link object.
	X position	Specify the X coordinate position of the link object.
	Link target	Select the link destination. <ul style="list-style-type: none"> Specified URL: Goes to the specified URL. Each dashboard name: Goes to the link destination of the selected dashboard.
	URL	Specify the URL. * This item can be specified only when "Specified URL" is selected for "Link destination."
	Display text	Specify the text to be displayed.
	Text color	Select the color of the link object.  You can specify whatever color you like from the pallet.
	Text size	Specify the character size of the link object.
	Frame size	Specify the size of the link object display frame.
	Apply	Applies the settings for the text object. * Pressing the Enter key also applies them.
Delete	Deletes the text object.	

Table 8: Telop object edit window

Telop object edit window		
	Y position	Specify the Y coordinate position of the telop object.
	X position	Specify the X coordinate position of the telop object.
	Telop selection	Select the telop to be displayed. Select Telop 1, Telop 2 or Telop 3.
	Text color	Select the color of the telop object.  You can specify whatever color you like from the pallet.
	Text size	Specify the character size of the telop object.
	Frame size	Specify the size of the telop object display frame.
	Speed	Specify the telop display speed. When a small number is specified, the telop moves quickly. When a large number is specified, the telop moves slowly.
	Apply	Applies the settings for the text object. * Pressing the Enter key also applies them.
	Delete	Deletes the text object.

(3) Layout edit preview

This screen is used to check the currently edited layout.

On this screen, you can see how the currently edited layout is displayed on the screen described in "1-5. Dashboard."



Figure 3: Layout edit preview

Table 9: Description of the layout edit preview

No.	Item	Description
1	Return	Goes to the layout edit screen.

1-5. Dashboard

(1) Dashboard

This screen displays the created dashboard.



Figure 4: Dashboard

Table 10: Description of the dashboard

No.	Item	Description
1	Signal tower object	<p>Displays whether the signal tower for the signal tower No. specified on the layout edit screen is lit or blinking. If the signal tower is neither lit nor blinking, this item is displayed in white.</p> <p>When you select the signal tower object, the operation history monitor is displayed for the signal tower with the specified signal tower No. * For details on the operation history monitor, see "1-6. (3) Single device - operation history monitor" in the "Flex Signal Instruction Manual."</p>
2	Text object	<ul style="list-style-type: none"> • Fixed text: Displays the display text specified on the layout edit screen. • Signal tower name: Displays the signal tower name for the signal tower No. specified on the layout edit screen. • Line name: Displays the line name for the signal tower No. specified on the layout edit screen. <p>When you select "Signal tower name" or "Line name" for "Text category" and select a text object, the operation history monitor is displayed for the signal tower with the specified signal tower No. * For details on the operation history monitor, see "1-6. (3) Single device - operation history monitor" in the "Flex Signal Instruction Manual."</p>
3	Numerical object	<ul style="list-style-type: none"> • Number of production: Displays the production volume for the signal tower No. specified on the layout edit screen. • Production target: Displays the target production volume for the signal tower No. specified on the layout edit screen. • Efficiency: Displays the operation rate for the signal tower No. specified on the layout edit screen. • Production rate: Displays the production achievement rate for the signal tower No. specified on the layout edit screen. • Production tact time: Displays the production cycle time for the signal tower No. specified on the layout edit screen. • Operation time: Displays the operating time for the signal tower No. specified on the layout edit screen. • Longest operation time{: Displays the maximum operating time for the signal tower No. specified on the layout edit screen. • Alarm time: Displays the abnormal time for the signal tower No. specified on the layout edit screen.

		<ul style="list-style-type: none"> • Alarm count: Displays the number of errors for the signal tower No. specified on the layout edit screen. • Alarm rate: Displays the error rate for the signal tower No. specified on the layout edit screen. • Longest alarm time: Displays the maximum abnormal time for the signal tower No. specified on the layout edit screen. • Performance: Displays the performance for the signal tower No. specified on the layout edit screen. • OEE: Displays the total equipment efficiency for the signal tower No. specified on the layout edit screen. • Quality: Displays the quality for the signal tower No. specified on the layout edit screen. • Good products: Displays the number of good products for the signal tower No. specified on the layout edit screen. • Defective products: Displays the number of defective products for the signal tower No. specified on the layout edit screen. • Theoretical output: Displays the number of producible products for the signal tower No. specified on the layout edit screen. • Watch Time: Displays the monitoring time for the signal tower No. specified on the layout edit screen. • Differences: Displays the differences for the specified signal tower No.
4	Link object	Displays the display text specified on the layout edit screen. When you select a link object, the URL or dashboard specified as the link destination is displayed.
5	Telop object	Displays the telop specified on the layout edit screen.



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