

# 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.

# **Revision History**

Sep. 13, 2015	1.0.0	
	1.0.0	First edition
Dec. 21, 2016	2.0.0	Improved the dashboard list and dashboard layout
		and added functions.
Jun. 1, 2017	3.0.0	Added the performance function.
		Added a delete button for each component.
		Modified screenshots.
		Added the specified URL function.
May 25, 2018	4.0.0	Added numerical items.
		Modified screenshots.
	Jun. 1, 2017	Jun. 1, 2017 3.0.0

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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

\* 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."

group1				
Monitor				
→ Whole M	1onitor —			
page1				
→ Chart Lis	st 🛁			
page1				
- Dashboa	ard 🕂			
693 352	693 352	693 352	693 352	693 352
Dashboard1	Dashboard2	Dashboard3	Dashboard4	Dashboard5

\* 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/

### 1-3. Dashboard list

This screen is used to save dashboard settings.

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

Flex Signal					
Dashb	oard List				
No.	MENU Order	NAME	мемо		
1	Empty •			Remove	Layout Setting
2	Empty 🔻			Remove	Layout Setting
3	Empty •			Remove	Layout Setting
4	Empty 🔻			Remove	Layout Setting
5	Empty 🔻			Remove	Layout Setting
6	Empty •			Remove	Layout Setting
7	Empty •			Remove	Layout Setting
8	Empty 🔻			Remove	Layout Setting
9	Empty •			Remove	Layout Setting
10	Empty •			Remove	Layout Setting
номе		Empty 🔻			
Sa	ve		_		

#### Figure 1: Dashboard list

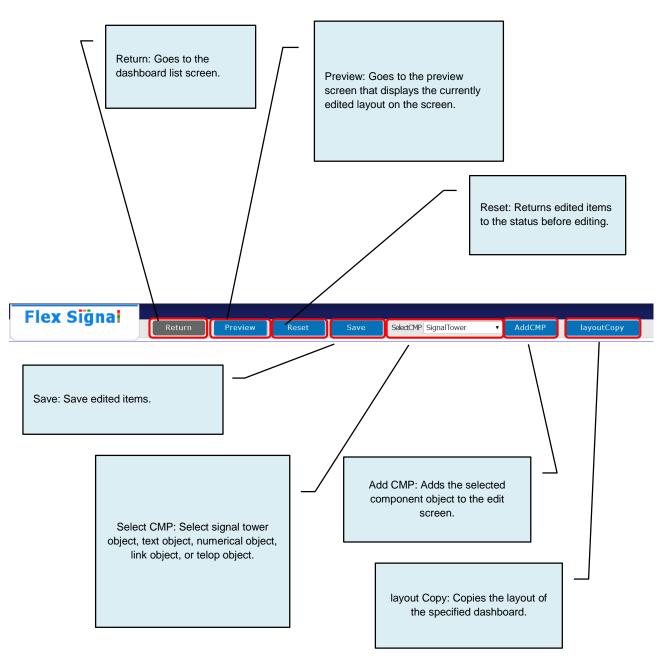
#### Table 1: Description of the dashboard list

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.

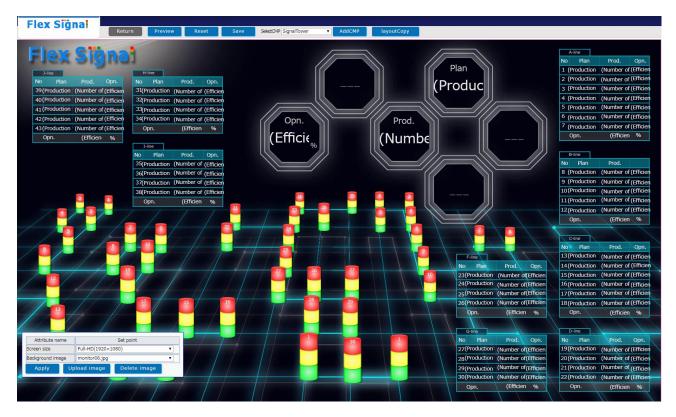


Figure 2: Layout editing

No.	Item		Description
1	Attribute name Set point	Screen object	Window that appears when you select
	Screen size Full-HD(1920×1080)	- edit window	the background. For details on the
	Background image		window, see "Table 3: Screen object edit
	Apply Upload image Delete image		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	Attribute name Set point Y Position 93	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
	X Position 171		object edit window."
	Signal tower No. 1		
	Signal tower number of the tiers		
	No.1: Red •	<u></u>	
	Signal tower No.3: Green	<u></u>	
	color setting No.4: Blue *		
	No.5: White •		
	Signal tower size 50		
	Apply Delete		
4	Text	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	Window that appears when you select a
	Attribute name Set point	edit window	text object. For details on the window,
	Y Position 9		see "Table 5: Text object edit window."
	X Position 9		,
	Fixed text		
	Text type Signal tower No.:		
	Display text Text		
	Text color		
	Text size 20		
	Text position left-align Frame size 120	•	
	Apply Delete		

#### Table 2: Description of layout editing

6	(Number of production2)	Numerical object	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.
7	Attribute name     Set point       Y Position     10       X Position     10       Numeric type     Signal tower No.: 2       * oneday     shift       Text color     •       Text size     20       Text position     right-align       Frame size     120       Apply     Delete	Numerical object edit window	Window that appears when you select a numerical object. For details on the window, see "Table 6: Numerical object edit window."
8	Link	Link object	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.
9	Attribute name     Set point       Y Position     10       X Position     10       Link target     VIL:       Display text     Link       Text color     •       Text size     20       Frame size     120       Apply     Delete	Link object edit window	Window that appears when you select a link object. For details on the window, see "Table 7: Link object edit window."
10	(Telop1)	Telop object	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.
11	Attribute name     Set point       Y Position     10       X Position     10       Telop selection     Telop 1       Text color     •       Text size     20       Frame size     120       Speed     10       Apply     Delete	Telop object edit window	Window that appears when you select a telop object. For details on the window, see "Table 8: Telop object edit window."

ltem		Description
	Screen size	Select the size suitable for the size of the PC screen on
		which the dashboard is displayed.
Attribute name Set point Screen size Full-HD(1920×1080)		Select SVGA (800 x 600), XGA (1024 x 768),
Background image		SXGA (1280 x 1024), Full-HD (1920 x 1080)
Apply Upload image Delete image		or 4K (3840 x 2160).
		* The layout edit screen displays the red frame with the
		specified screen size.
	Background	Select the image suitable for the size of the PC screen
	image	on which the dashboard is displayed.
		* The layout edit screen displays the background
		image that fits into the frame with the specified screen
		size.
	Apply	Applies the specified screen size and background
		image.
		* Pressing the Enter key also applies them.
	Upload	The image upload settings dialog box pops up.
	image	
	Image	The image upload settings dialog box shown below
	upload	pops up.
	settings	Upload image X
		You can choose a image file and upload it, note:The extension up to "jpg", "jpg", "bmp"and ",png" can be used, note:The life size up to 2MB can be used. note:The image file was uploaded can use as a background image. Browse Upload
		Specify the image you want to upload from ""
		When you select "Upload" after specifying an image,
		that image is uploaded.

Table 3: Screen object edit window

	Item		Description
Attribute name	Set point	Y position	Specify the Y coordinate position of the signal tower object.
Y Position	93	X position	Specify the X coordinate position of the signal
X Position	171		tower object.
Signal tower No.	1	Signal Tower	Specify the signal tower No.
Signal tower number of the tiers	3Tiers •	No.	Specify the signal tower No.
	No.1: Red    No.2: Yellow	Number tower	Select the number of tiers of the signal tower
Signal tower color setting	No.3: Green	number of tiers	object.
	No.4: Blue *	Signal tower	Select the color for each tier of the signal
	No.5: White v	color settings	tower object.
Signal tower size	50	oolor oottingo	
Signal tower direction	Standard •		Select red, yellow, green, blue or white.
	Delete	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	Select the design of the signal tower object.
		design	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 4: Signal tower object edit window

		Text object edi	t 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,
Attribute name	Set point	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	signal tower name or line name.
Y Position	9		C C
X Position	9 Fixed text		<ul> <li>Fixed text: Displays the text specified in "Displayed text."</li> </ul>
Text type	Signal tower No.:		
Display text	Text		Signal tower name: Displays the signal
Text color			tower name of the specified signal
Text size	20		tower No.
Text position	left-align 🔹		Line name: Diaplays the line name of
Frame size	120		Line name: Displays the line name of the an additional terror Na
Apply	Delete		the specified signal tower No.
		Signal	Specify the signal tower No.
		tower No.	
		Displayed	Specify the text to be displayed. When
		type	"Text category" is "Fixed text," you can
		(JPC	enter any text desired.
		-	
		Text color	Select the color of the text object.
			Attribute name Set point
			Y Position 279
			X Position 262
			Text type
			Signal tower No.:
			Text color
			Text size
			Text position
			Frame size
			cancel OK
			You can specify whatever color you like
			from the pallet.
		Text size	Specify the character size of the text object.
		Text	Select the display position in the text object
		position	display frame.
			Select left-aligned, centered or
			<b>C</b>
			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.
		Delete	

Table 5: Text object edit window

	Nu	umerical 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	Select the numerical category.																			
Attribute name	Set point	type																				
Y Position X Position	10	type	<ul> <li>Number of production: Displays the production volume for the specified</li> </ul>																			
lumoric tuno	NumberOfProduction		signal tower No.																			
lumeric type	Signal tower No.: 2  oneday oneday shift		Production target: Displays the target																			
lext color			production volume for the specified																			
ext size	20																					
ext position	right-align 🔹		signal tower No.																			
rame size	120 Delete		Efficiency: Displays the operation rate     for the specified signal tower No.																			
(pp)			for the specified signal tower No.																			
						<ul> <li>Production rate: Displays the production achievement rate for the specified signal tower No.</li> </ul>																
												<ul> <li>Production tact time: Displays the production cycle time for the specified signal tower No.</li> </ul>										
				Operation time: Displays the operating time for the specified signal tower No.																		
																						<ul> <li>Longest operation time: Displays the maximum operating time for the specified signal tower No.</li> </ul>
					Alarm time: Displays the abnormal time for the specified signal tower No.																	
													<ul> <li>Alarm count: Displays the number of errors for the specified signal tower No.</li> </ul>									
								<ul> <li>Alarm rate: Displays the error rate for the specified signal tower No.</li> </ul>														
															<ul> <li>Longest alarm time: Displays the maximum abnormal time for the specified signal tower No.</li> </ul>							
		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																				

Table 6: Numerical object edit window

Delete	Deletes the text object.
Арріу	* Pressing the Enter key also applies them.
Apply	Applies the settings for the text object.
Frame size	Specify the size of the numerical object display frame.
Frame size	right-aligned.
	Select left-aligned, centered or
	object display frame.
Text position	Select the display position in the numerical
	object.
Text size	Specify the character size of the numerical
	from the pallet.
	You can specify whatever color you like
	文字サイズ     マンクリン       文字位置     マンクレーマン       砕サイズ     マンクレーマン       空川     マンクレーマン       空川     マンクレーマン       Cancel OK
	單论名         設定値           Y位置         990           X位置         1405           激性镭別         生品数           次空色         ▼
Text color	Select the color of the numerical object.
	time," "Error count," "Error rate," and "Maximum abnormal time."
	"Maximum operating time," "Abnormal
	"Operation rate," "Operating time,"
	applicable to "Production volume,"
	* One-day display and shift display are only
Display	Select one-day display or shift display.
Signal tower No.	Specify the signal tower No.
Circultower	for the specified signal tower No.
	Differences: Displays the differences
	time for the specified signal tower No.
	<ul><li>specified signal tower No.</li><li>Watch Time: Displays the monitoring</li></ul>
	<ul> <li>Theoretical output: Displays the number of producible products for the</li> </ul>
	number of defective products for the specified signal tower No.
	<ul> <li>Defective products: Displays the</li> </ul>
	<ul> <li>Good products: Displays the number of good products for the specified signal tower No.</li> </ul>

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 taget	Select the link destination.
Attribute name	Set point	Ŭ	. Specified UPL: Case to the apacified
Y Position	10		Specified URL: Goes to the specified
X Position	10		URL.
Numeric type	NumberOfProduction   Signal tower No.: 2		• Each dashboard name: Goes to the link
	oneday shift		destination of the selected dashboard.
Text color		URL	Specify the URL.
Text size	20		* This item can be specified only when
Text position	right-align •		
Frame size	120 Delete		"Specified URL" is selected for "Link
			destination."
		Displaye text	Specify the text to be displayed.
		Text color	Select the color of the link object.
		Text size	Attribute name       Set point         Y Position       55         Int target       Int         Image: Size in the size in the pallet.       Image: Size in the size in the 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 7: Link object edit window

	Те	lop object edit w	vindow
		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.
Attribute name	Set point		
Y Position	10		Attribute name Set point Y Position 36
X Position	10		X Position 211
Telop selection	Telop 1		Telop 1 v
Text color			Text color
Text size	20		Frame size
Frame size	120		Speed
Speed	10		Apply D cancel OK
Арріу	Delete	Text size	You can specify whatever color you like from the pallet. 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.
		Delete	

Table 8: Telop object edit window

#### (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."

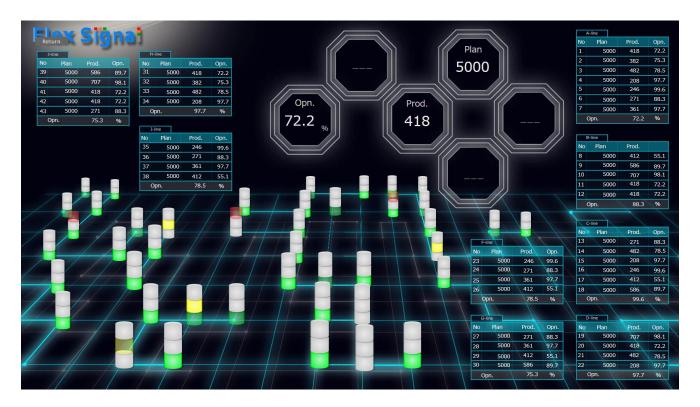


Figure 3: Layout edit	preview
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#### Table 9: Description of the layout edit preview

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

## 1-5. Dashboard

#### (1) Dashboard

This screen displays the created dashboard.

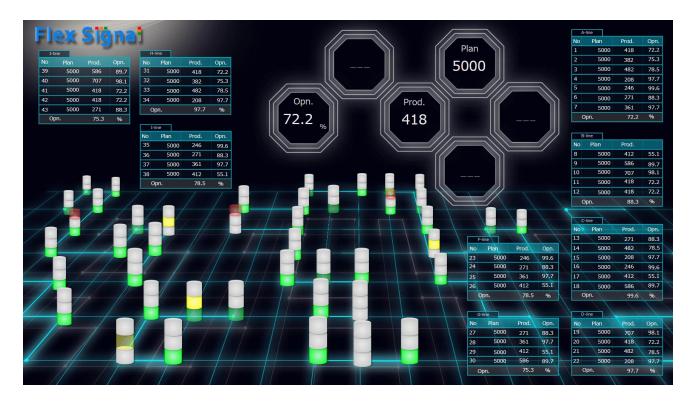


Figure 4: Dashboard

Item	Description
Signal tower object	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. 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."
Text object	<ul> <li>Fixed text: Displays the display text specified on the layout edit screen.</li> <li>Signal tower name: Displays the signal tower name for the signal tower No. specified on the layout edit screen.</li> <li>Line name: Displays the line name for the signal tower No. specified on the layout edit screen.</li> <li>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."</li> </ul>
Numerical object	<ul> <li>Number of production: Displays the production volume for the signal tower No. specified on the layout edit screen.</li> <li>Production target: Displays the target production volume for the signal tower No. specified on the layout edit screen.</li> <li>Efficiency: Displays the operation rate for the signal tower No. specified on the layout edit screen.</li> <li>Production rate: Displays the production achievement rate for the signal tower No. specified on the layout edit screen.</li> <li>Production tact time: Displays the production cycle time for the signal tower No. specified on the layout edit screen.</li> <li>Operation time: Displays the operating time for the signal tower No. specified on the layout edit screen.</li> <li>Alarm time: Displays the abnormal time for the signal</li> </ul>
	Signal tower object Text object

#### Table 10: Description of the dashboard

<ul> <li>signal tower No. specified on the layout edit screen.</li> <li>Alarm rate: Displays the error rate for the signal tower No. specified on the layout edit screen.</li> <li>Longest alarm time: Displays the maximum abnormal time for the signal tower No. specified on the layout edit screen.</li> <li>Performance: Displays the performance for the signal tower No. specified on the layout edit screen.</li> <li>OEE: Displays the total equipment efficiency for the signal tower No. specified on the layout edit screen.</li> <li>Quality: Displays the quality for the signal tower No. specified on the layout edit screen.</li> <li>Good products: Displays the number of good products for the signal tower No. specified on the layout edit screen.</li> <li>Good products: Displays the number of defective products for the signal tower No. specified on the layout edit screen.</li> <li>Defective products: Displays the number of defective products for the signal tower No. specified on the layout edit screen.</li> <li>Theoretical output: Displays the number of producible products for the signal tower No. specified on the layout edit screen.</li> <li>Theoretical output: Displays the number of producible products for the signal tower No. specified on the layout edit screen.</li> <li>Theoretical output: Displays the number of producible products for the signal tower No. specified on the layout edit screen.</li> <li>Theoretical output: Displays the number of producible products for the signal tower No. specified on the layout edit screen.</li> <li>Watch Time: Displays the differences for the signal tower No. specified signal tower No. specified on the layout edit screen.</li> <li>Differences: Displays the differences for the signal tower No. specified signal tower No.</li> <li>Displays the display text specified on the layout edit screen.</li> </ul>			Alarm count: Displays the number of errors for the
4Link object4Link object4Link object			
<ul> <li>abnormal time for the signal tower No. specified on the layout edit screen.</li> <li>Performance: Displays the performance for the signal tower No. specified on the layout edit screen.</li> <li>OEE: Displays the total equipment efficiency for the signal tower No. specified on the layout edit screen.</li> <li>Quality: Displays the quality for the signal tower No. specified on the layout edit screen.</li> <li>Good products: Displays the number of good products for the signal tower No. specified on the layout edit screen.</li> <li>Defective products: Displays the number of defective products for the signal tower No. specified on the layout edit screen.</li> <li>Defective products: Displays the number of defective products for the signal tower No. specified on the layout edit screen.</li> <li>Mayout edit screen.</li> <li>Theoretical output: Displays the number of producible products for the signal tower No. specified on the layout edit screen.</li> <li>Watch Time: Displays the number of producible products for the signal tower No. specified on the layout edit screen.</li> <li>Differences: Displays the differences for the signal tower No. specified on the layout edit screen.</li> <li>Differences: Displays the differences for the signal tower No.</li> <li>Displays the display text specified on the layout edit screen.</li> </ul>			
<ul> <li>signal tower No. specified on the layout edit screen.</li> <li>OEE: Displays the total equipment efficiency for the signal tower No. specified on the layout edit screen.</li> <li>Quality: Displays the quality for the signal tower No. specified on the layout edit screen.</li> <li>Good products: Displays the number of good products for the signal tower No. specified on the layout edit screen.</li> <li>Defective products: Displays the number of defective products for the signal tower No. specified on the layout edit screen.</li> <li>Theoretical output: Displays the number of products for the signal tower No. specified on the layout edit screen.</li> <li>Theoretical output: Displays the number of products for the signal tower No. specified on the layout edit screen.</li> <li>Theoretical output: Displays the number of products for the signal tower No. specified on the layout edit screen.</li> <li>Theoretical output: Displays the number of producible products for the signal tower No. specified on the layout edit screen.</li> <li>Watch Time: Displays the monitoring time for the signal tower No. specified on the layout edit screen.</li> <li>Differences: Displays the differences for the specified signal tower No.</li> <li>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.</li> </ul>			abnormal time for the signal tower No. specified on
4Link object4Link object4Link object4Link object5Qualty00 </td <th></th> <td></td> <td></td>			
<ul> <li>specified on the layout edit screen.</li> <li>Good products: Displays the number of good products for the signal tower No. specified on the layout edit screen.</li> <li>Defective products: Displays the number of defective products for the signal tower No. specified on the layout edit screen.</li> <li>Theoretical output: Displays the number of producible products for the signal tower No. specified on the layout edit screen.</li> <li>Theoretical output: Displays the number of producible products for the signal tower No. specified on the layout edit screen.</li> <li>Watch Time: Displays the monitoring time for the signal tower No. specified on the layout edit screen.</li> <li>Differences: Displays the differences for the specified signal tower No.</li> <li>Link object</li> <li>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.</li> </ul>			
4Link objectproductsproducts for the signal tower No. specified on the layout edit screen.4Link objectDisplays the display the display the display the screen.Displays the display the products for the signal tower No. specified on the layout edit screen.4Link objectDisplays 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.			
4Link objectDisplays the display text specified on the layout edit4Link objectDisplays the display text specified on the layout edit			products for the signal tower No. specified on the
ALink objectDisplays the display text specified on the layout edit4Link objectDisplays the display text specified on the layout edit			products for the signal tower No. specified on the
4       Link object       Displays the display text specified on the layout edit screen.         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.			producible products for the 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.			
screen. When you select a link object, the URL or dashboard specified as the link destination is displayed.			
	4	Link object	screen. When you select a link object, the URL or
	5	Telop object	Displays the telop specified on the layout edit screen.

# TOKAI SOFT

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