Human Machine Interface (HMI) GOT

Comment Display (Basics)

This online training system (e-learning) is intended for those who use the comment display of the GOT2000 Series HMI for the first time.

In this course, we will learn how to set a comment display or switch a display using the screen design software GT Designer3.

You can learn more efficiently by preparing a personal computer on which GT Designer3 is installed and checking each operation during the course.

As prerequisites for this course, you should have already completed the following courses or possess the equivalent knowledge in:

- FA Equipment for Beginners (HMIs)
- GOT2000 Basics (GOT Introduction)
- GT Works3 (GT Designer3) Basics (Screen Design Introduction)
- GT Works3 (GT Designer3) Basics (Elementary Screen Design)
- Comment (Introduction)

The contents of this course are as follows.
We recommend that you start from Chapter 1.

Chapter 1 Overview

We will learn the overview including the settings for the comment display to be created.

Chapter 2 Switching a Display by Turning On/Off a Device (Bit Comment)

We will learn the settings to switch a display by turning on/off a device.

Chapter 3 Switching a Display According to the Device Value (Word Comment)

We will learn how to switch a display according to the device value.

Final Test

Passing grade: 60% or higher.

Following is an explanation of how to use the graphical user interface.

Go to the next page	>	Go to the next page.
Back to the previous page	<	Back to the previous page.
Move to the desired page	TOC	"Table of Contents" will be displayed, enabling you to navigate to the desired page.
Exit the learning	X	Exit the learning. Window such as "Contents" screen and the learning will be closed.

Safety precautions

When you learn based on using actual products, please carefully read the safety precautions in the corresponding manuals.

Chapter 1 | Overview

We will learn the settings for a comment display to be created in this course.
In addition, we will prepare comments and a comment group required for the settings.
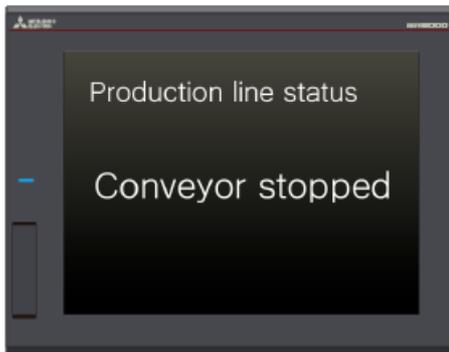
1.1 Settings for a comment display to be created in this course

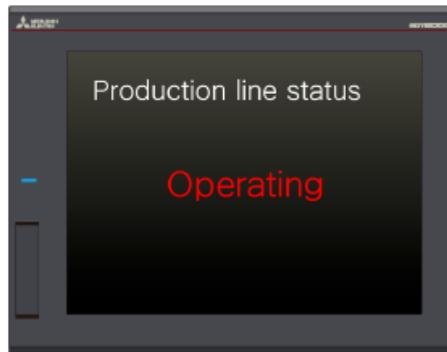1.2 Preparing comments and a comment group

In this course, we will create the following GOT screen and learn how to switch a display by turning on/off a device, and how to switch a display according to the device value.

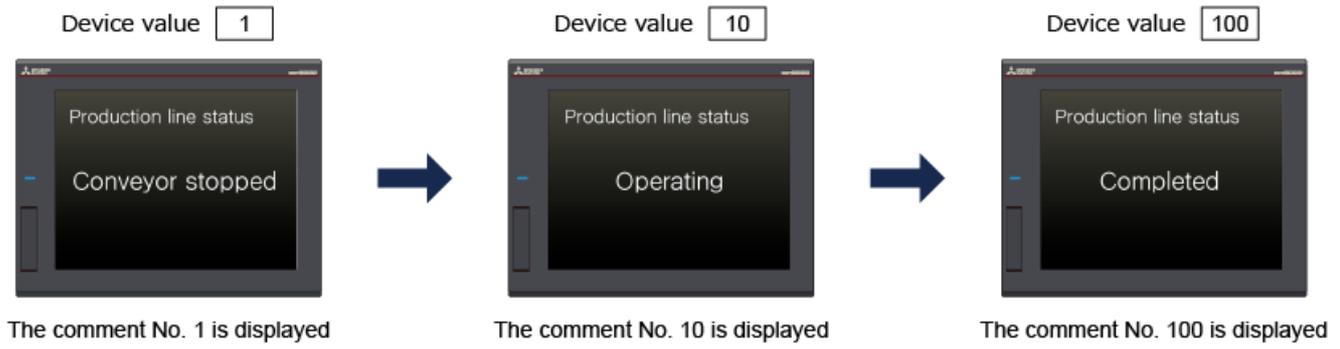(1) Switching a comment by turning on/off a device (bit comment)

Comment of when the device is off   Comment of when the device is on

(2) Switching a comment according to the device value (word comment)

| Device value | 1 | | Device value | 10 | | Device value | 100 |

Production line status

Conveyor stopped

The comment No. 1 is displayed

Production line status

Operating

The comment No. 10 is displayed

Production line status

Completed

The comment No. 100 is displayed

Create a comment group and comments used in this course.
For how to create a comment group and comments, take "Comment (Introduction)" course.

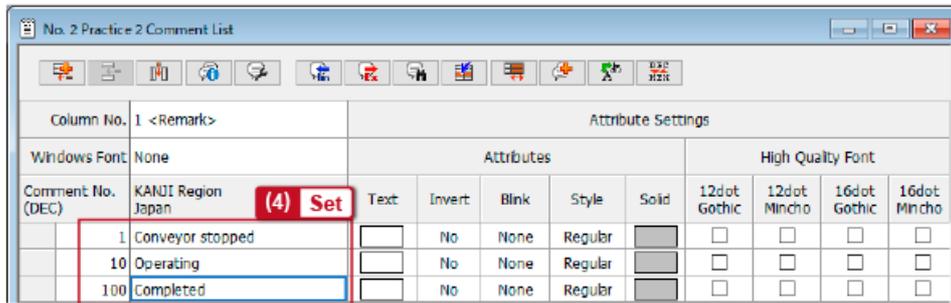(1) Select [Common] → [Comment] → [New Comment Group] from the menu.
(2) Set a number and name for the comment group in the [Comment Group Property] dialog.

Item	Setting example
Group No.	2
Title	Practice 2

(3) Click the [OK] button to close the dialog. The [Comment List] window is displayed.

(4) Set a comment number and a comment.

Comment No.	Setting example
1	Conveyor stopped
10	Operating
100	Exit

(5) Preparation is completed.

Chapter 2 — Switching a Display by Turning On/Off a Device (Bit Comment)

We will learn the settings to switch a display by turning on/off a device while creating a screen.

2.1 Setting a device ([Device/Style] tab)

2.2 Setting a comment to be displayed ([Comment] tab)

2.3 Creating a switch to turn on/off the device

2.4 Adding a title/adjusting a display

2.5 Checking the created data

Set a device to be monitored.

(1) Select [Object] → [Comment Display] → [Bit Comment] from the menu.
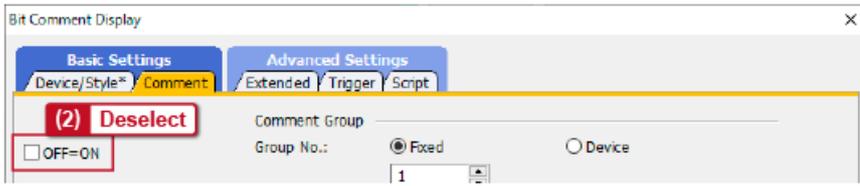(2) Click an intended point on the drawing screen to place the comment object.
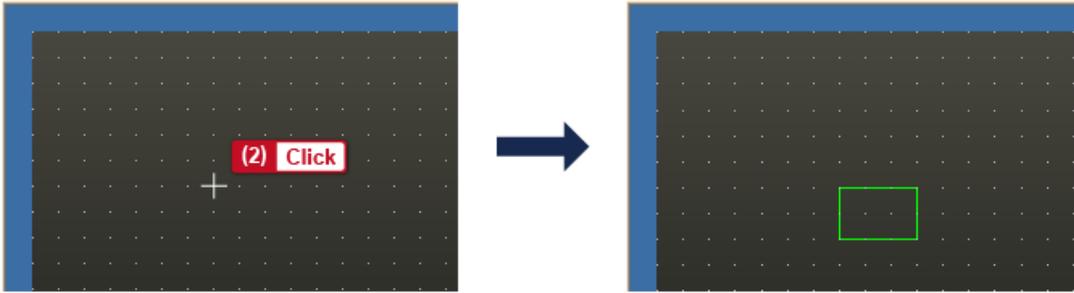
(3) Double-click the object to display the [Bit Comment Display] dialog.
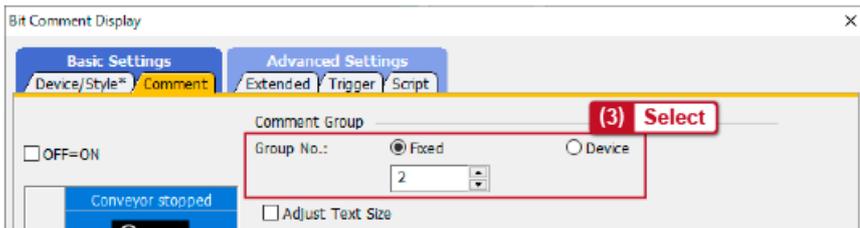(4) Set a device to be monitored in [Device].
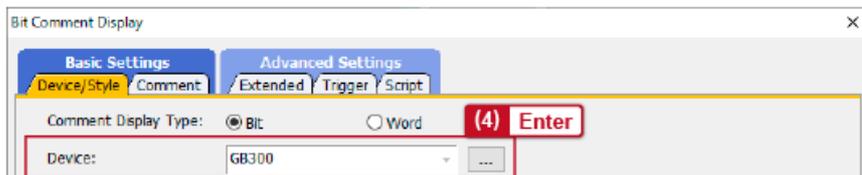
Item	Setting example
Device	GB300

Set a comment to be displayed.

(1) Open the [Comment] tab in the [Bit Comment Display] dialog.
(2) Deselect [OFF=ON].

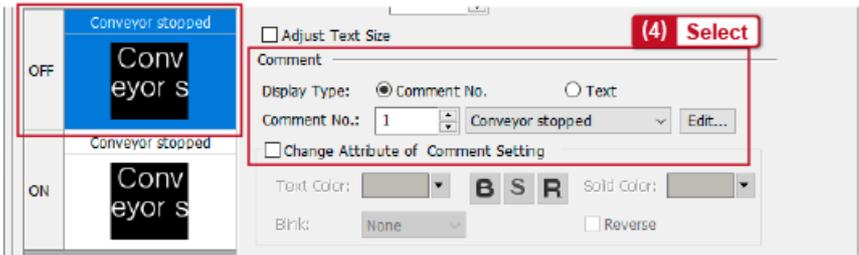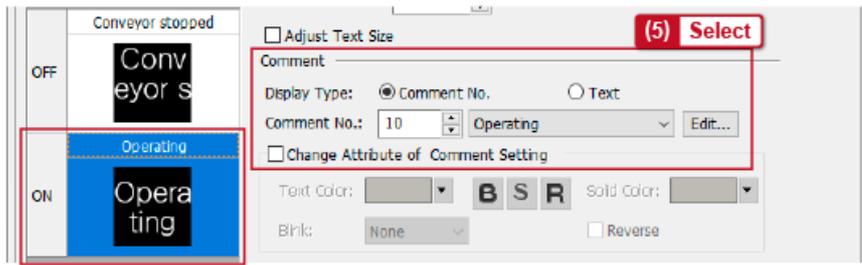(3) Select a comment group number displayed to be used for [Group No.].

Item	Setting example
Group No.	2

(4) Select a comment displayed when the device is off.

Item	Setting example
Comment No.	1 (Conveyor stopped)

(5) Select a comment displayed when the device is on.

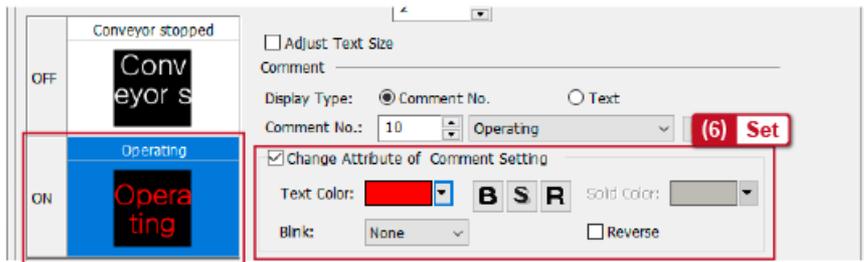| Item	Setting example
Comment No.	10 (Operating)

Select [Adjust Text Size] to adjust the text size automatically.
* The text size cannot be smaller than the specified minimum text size.

(6) Select [Change Attribute of Comment Setting], and set a text color for [Text Color].

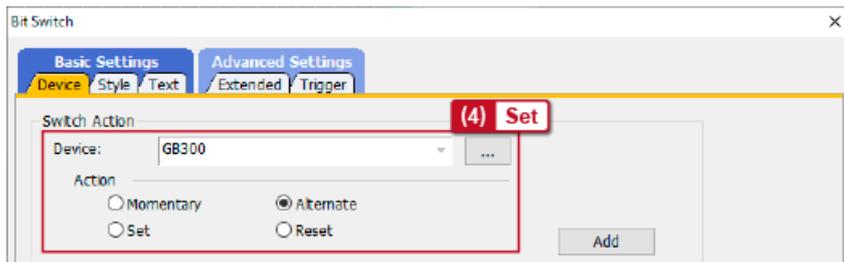| Item	Setting example
Text Color	Red (224)

(7) Click the [OK] button to close the dialog.

* This procedure is prepared only for this course to check that the comment display is switched by turning on/off a switch.

(1) Select [Object] → [Switch] → [Bit Switch] from the menu.
(2) Click an intended point on the drawing screen to place the switch object.

(3) Double-click the object to display the [Bit Switch] dialog.
(4) Set a device and action.

Item	Setting example
Device	GB300
Action	Alternate

(5) Set the lamp function. After the settings are completed, click [OK] to close the dialog.

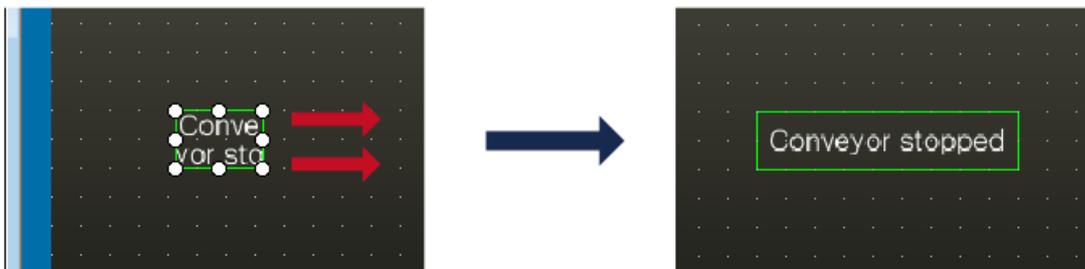| Item	Setting example
Lamp	Bit-ON/OFF
Device	GB300

Adding a title

(1) Select [Figure] → [Text] from the menu and click an intended point on the drawing screen to place the text object.
(2) Input a text to be displayed in [Text].

Adjusting a display

(1) Select the comment display object and adjust the object size so that a whole comment will be displayed.

Check the operation of the created project data by transferring data to the GOT or starting the simulator.
(For how to transfer projects or use the simulator, refer to "GT Works3 (GT Designer3) Basics (Elementary Screen Design)".)

(1) Press the switch and check that the display is switched.

Chapter 3 | Switching a Display According to the Device Value (Word Comment)
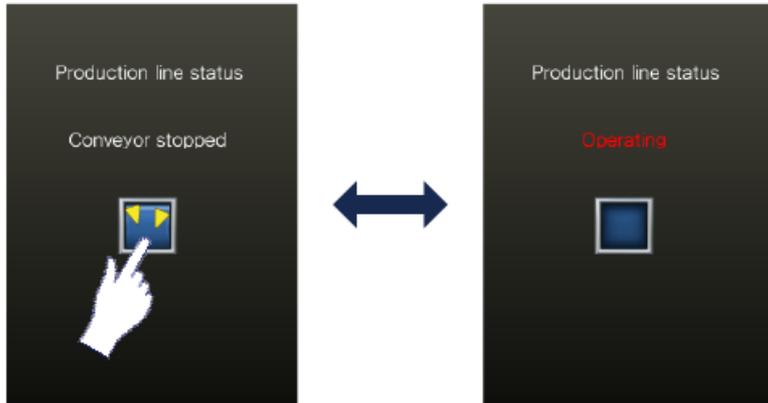
In this chapter, we will learn how to switch a display according to the device value while creating a screen in two methods.

The word comment can switch a display according to the value of the monitored device. The three display types are as follows. Select a display type depending on the applications for your convenience.
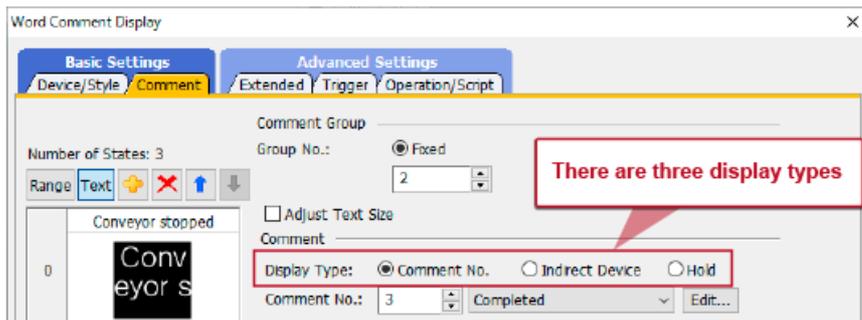
(1) [Comment No.]
Displays the comment of the comment number that is specified for the value of the monitored device.

(2) [Indirect Device]
Displays the comment of the comment number that is the same as the value of the monitored device.

(3) [Hold]
Holds the comment being displayed.

The following shows application examples.
We will explain the examples by monitoring the value of the GD400 device.

(1) Example of using [Comment No.]

Example 1) When specifying the comment number to be displayed for the value of the monitored device (GD400)

Value of the monitored device	Comment No. (comment) to be displayed
10	1 (Conveyor stopped)
20	2 (Operating)
30	3 (Exit)

Specify each comment No.

Column No.	1 <Remark>
Windows Font	None
Comment No. (DEC)	KANJI Region Japan
1	Conveyor stopped
2	Operating
3	Completed

Monitored device

GD400

Settings for the comment No.

Example 2) When specifying the comment number to be displayed within a range of the monitored device values

Value of the monitored device	Comment No. (comment) to be displayed	
20 or less	1 (Conveyor stopped)	Comment Display Type: ◉ Comment No. ○ Indirect Device ○ Hold Comment No.: 1 ⬍ Conveyor stopped ⌄ Edit...
20 to 40	2 (Operating)	Comment Display Type: ◉ Comment No. ○ Indirect Device ○ Hold Comment No.: 2 ⬍ Operating ⌄ Edit...
40 or more	3 (Exit)	Comment Display Type: ◉ Comment No. ○ Indirect Device ○ Hold Comment No.: 3 ⬍ Completed ⌄ Edit...

Specify each comment No.

Production line status

GD400

Monitored device

Column No.	1 <Remark>
Windows Font	None
Comment No. (DEC)	KANJI Region Japan
1	Conveyor stopped
2	Operating
3	Completed

Settings for the comment No.

(2) Example of using [Indirect Device]

Example) When the monitored device value and the comment number to be displayed are the same

Value of the monitored device	Comment No. (comment) to be displayed	
1	1	(Conveyor stopped)
10	10	(Operating)
100	100	(Exit)

Comment
Display Type: ○ Comment No.   ⦿ Indirect Device   ○ Hold

Batch setting when the device value and comment No. to be displayed are the same

Column No.	1 <Remark>	
Windows Font	None	
Comment No. (DEC)	KANJI Region Japan	
	1	Conveyor stopped
	10	Operating
	100	Completed

Production line status
+
HEX

GD400

Monitored device

Settings for the comment No.

(3) Example of using [Hold]

Example) When holding the previous comment (Setting [Hold] when the monitored device value is "2" and switching the devices in order of A to C)

Value of the monitored device	Comment No. (comment) to be displayed	
(A) 1	1 (Conveyor stopped)	Comment Display Type: ○ Comment No. ◉ Indirect Device ○ Hold
(B) 2	1 (Conveyor stopped)	Comment Display Type: ○ Comment No. ○ Indirect Device ◉ Hold
(C) 3	3 (Exit)	Comment Display Type: ○ Comment No. ◉ Indirect Device ○ Hold

Holding the previous comment display

Production line status

GD400

Monitored device

Column No.	1 <Remark>
Windows Font	None
Comment No. (DEC)	KANJI Region Japan
1	Conveyor stopped
2	Operating
3	Completed

Settings for the comment No.

3.2　Setting a comment by the display method [Comment No.]

We will learn how to configure the settings for display method [Comment No.].
Set a comment number to be displayed for each value of the device to be monitored.

3.2.1 Setting a device ([Device/Style] tab)

3.2.2 Setting a comment to be displayed ([Comment] tab)

3.2.3 Creating a numerical input

3.2.4 Adding a title/adjusting the display

3.2.5 Checking the created data

Set a device to be monitored.

(1) Select [Object] → [Comment Display] → [Word Comment] from the menu.
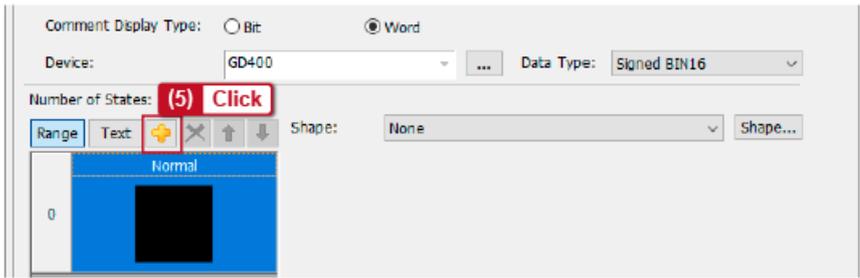(2) Click an intended point on the drawing screen to place the comment object.
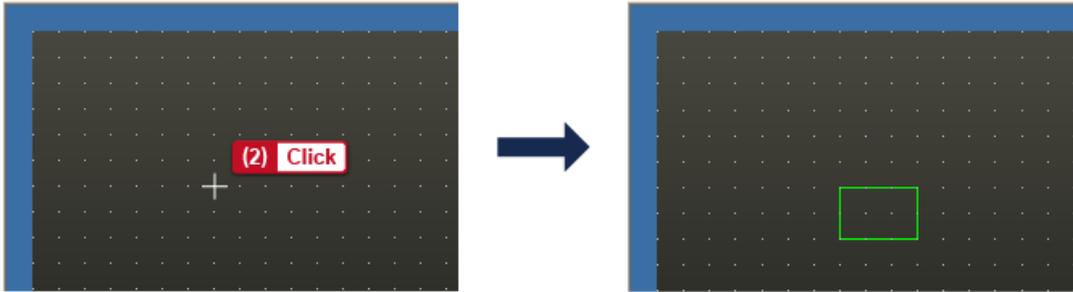
(3) Double-click the object to display the [Word Comment Display] dialog.
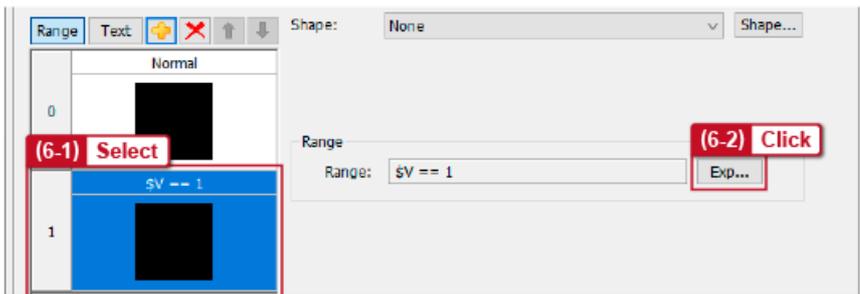(4) Set a device to be monitored in [Device].
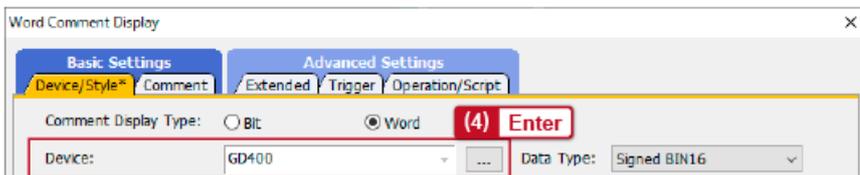
Item	Setting example
Device	GD400

(5) Click the [+] button to add a new condition (state) for the comment to be displayed. Add three states.

(6) Configure the settings when the device value is 1, 10, and 100. First, configure the settings when the device value is 1. Select state 1 and click the [Exp] button to display the [Edit Range] dialog.

(7) Since the device value is 1, set the device value 1 to [Constant].

Item	Setting example
Constant	1

(8) Configure settings for state 2 and 3 as well and set device values 10 and 100 to [Constant].

Item	Setting example
State 2	10
State 3	100

The following condition can be set for [A] in the [Edit Range] dialog.

Edit Range   ×

$V -- 1

A   -- ∨   B   None ∨   C

| <	The left side value is smaller than the right side value.
<=	The left side value equals or smaller than the right side value.
==	The left side value equals the right side value.
!=	The left side value and the right side value are different.

Set a comment to be displayed.

(1) Open the [Comment] tab in the [Word Comment Display] dialog.
(2) Select a comment group to be used.
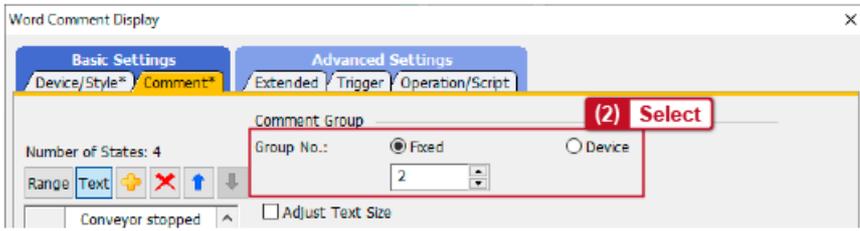
Item	Setting example
Group No.	2

(3) Set [Display Type] for states 0 to 3. In this course, we will configure the settings so that the comments for states other than states 1 to 3 will be hidden.
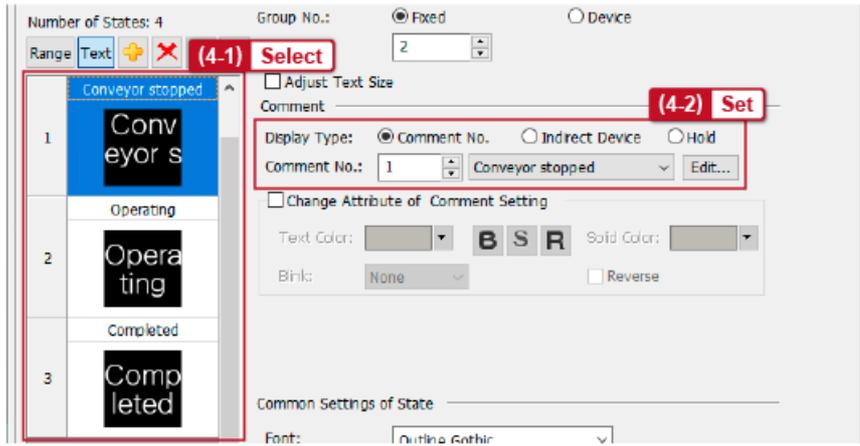Select state 0, then select values of [Display Type] and [Comment No.].
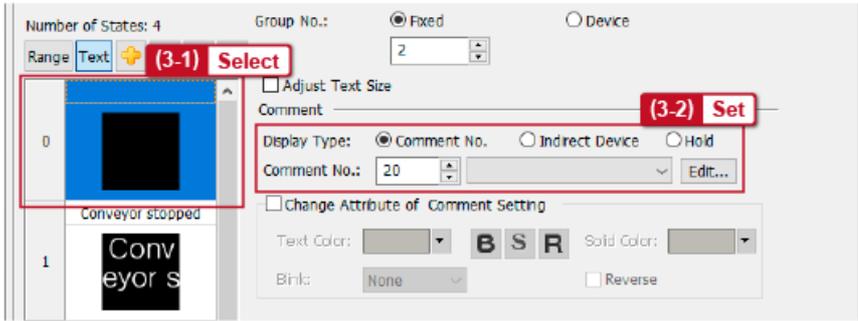
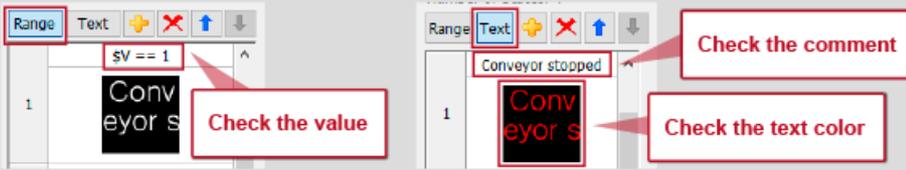| Item	Setting example
Display Type	Comment No.
Comment No.	20 (Comment number for which no comment is set)

The comment set for state 0 is displayed when any of the other conditions (states) are not satisfied.

(4) Select states 1 to 3, then select [Display Type] and [Comment No.].

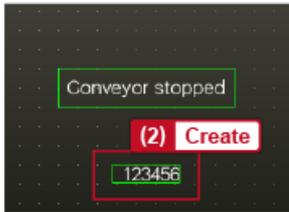| Item	Display Type	Comment No.
State 1	Comment No.	1 (Conveyor stopped)
State 2	Comment No.	10 (Operating)
State 3	Comment No.	100 (Exit)

Hint You can check the range set with the [Range] button and the comment displayed with the [Text] button. The text color can also be checked in the preview screen.
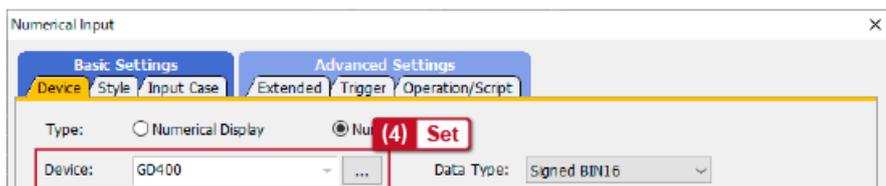
| Range | Text | ➕ ✖ ⬆ ⬇ |

$V == 1

1 Conv eyor s

Check the value

| Range | Text | ➕ ✖ ⬆ ⬇ |

Conveyor stopped

Check the comment

1 Conv eyor s

Check the text color

Create a numerical input to enter a device value to switch a comment.
* This procedure is prepared only for this course to check the comment display is switched by setting a device value.

(1) Select [Object] → [Numerical Display/Input] → [Numerical Input] from the menu.
(2) Click an intended point on the drawing screen to create a numerical input object.

(3) Double-click the object on the screen to display the [Numerical Input] dialog.
(4) Set a target device.

Adding a title

(1) Select [Figure] → [Text] from the menu and click an intended point on the drawing screen to place the text object.
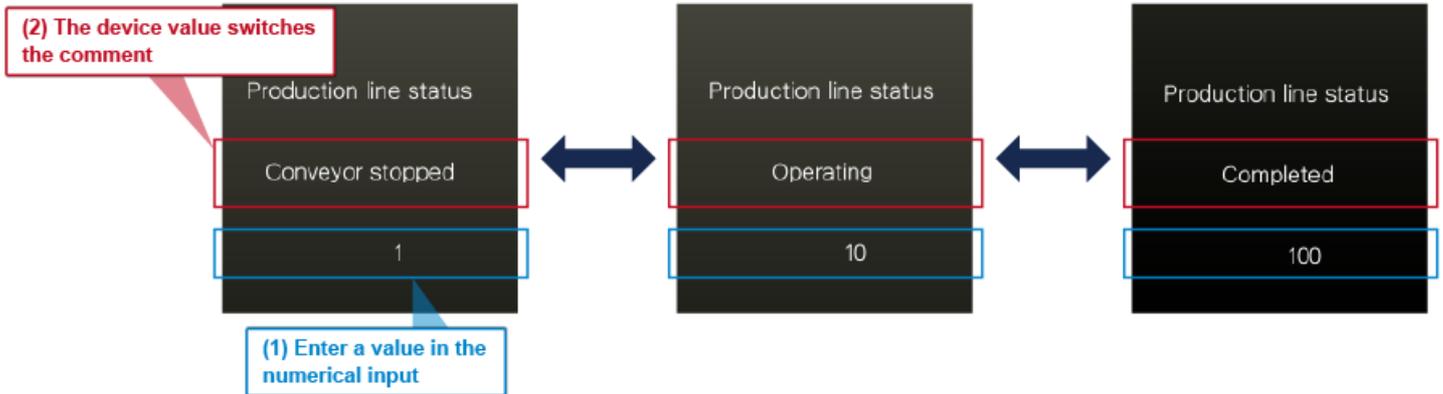(2) Input a text to be displayed in [Text].

Adjusting a display

(1) Select the comment display object and adjust the object size so that a whole comment will be displayed.

Check the operation of the created project data by transferring data to the GOT or starting the simulator.
(For how to transfer projects or use the simulator, refer to "GT Works3 (GT Designer3) Basics (Elementary Screen Design)".)

(1) Input [1], [10], or [100] in the numerical input object and check that the comment is switched.

3.3 Setting a comment by the display method [Indirect Device]

We will learn how to configure the settings for display method [Indirect Device].
We use this method when the value of the monitored device is the same as the comment number of the comment to be displayed.
You do not need to set the comment number to be displayed for each device value.

Set a device to be monitored.
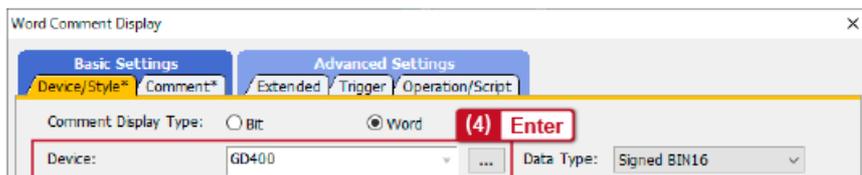
(1) Select [Object] → [Comment Display] → [Word Comment] from the menu.
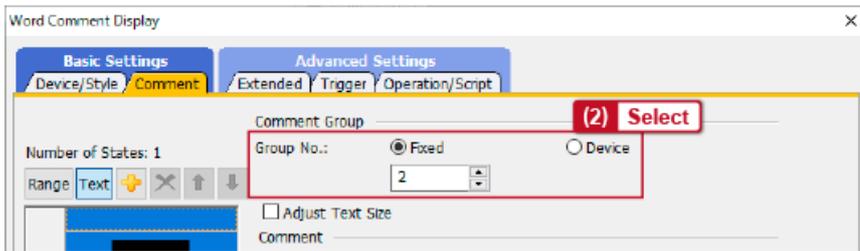(2) Click an intended point on the drawing screen to place the comment object.
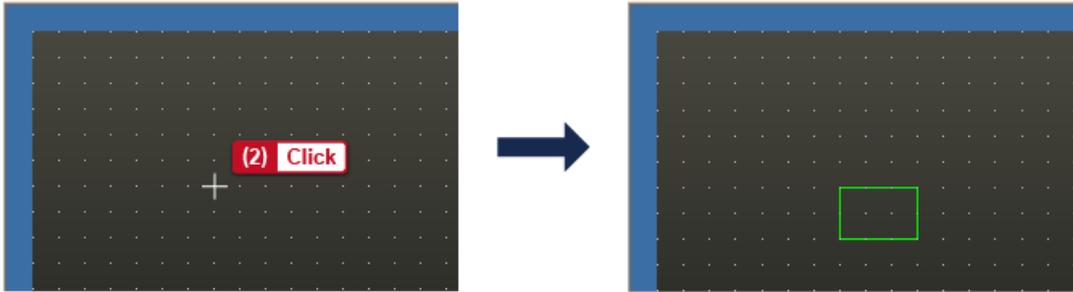
(3) Double-click the object to display the [Word Comment Display] dialog.
(4) Set a device to be monitored in [Device].

Item	Setting example
Device	GD400

Set a comment to be displayed.

(1) Open the [Comment] tab in the [Word Comment Display] dialog.
(2) Select a comment group to be used.

Item	Setting example
Group No.	2

(3) Select [Display Type].

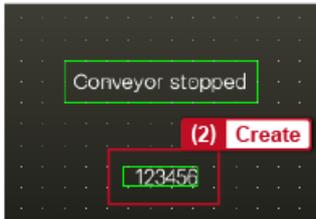| Item	Setting example
Display Type	Indirect Device

When [Indirect Device] is selected, the comment of the comment number which is the same as the value of the monitored device can be displayed.
You do not need to set a comment number for the value of the monitored device.

Create a numerical input to enter a device value to switch a comment.
* This procedure is prepared only for this course to check the comment display is switched by setting a device value.

(1) Select [Object] → [Numerical Display/Input] → [Numerical Input] from the menu.
(2) Click an intended point on the drawing screen to create a numerical input object.

(3) Double-click the object on the screen to display the [Numerical Input] dialog.
(4) Set a target device.

Adding a title

(1) Select [Figure] → [Text] from the menu and click an intended point on the drawing screen to place the text object.
(2) Input a text to be displayed in [Text].

Text   ×

Text: **(2) Enter**

Production line status   Convert to Logo Text

                                       Convert to Comment Display

Adjusting a display

(1) Select the comment display object and adjust the object size so that a whole comment will be displayed.

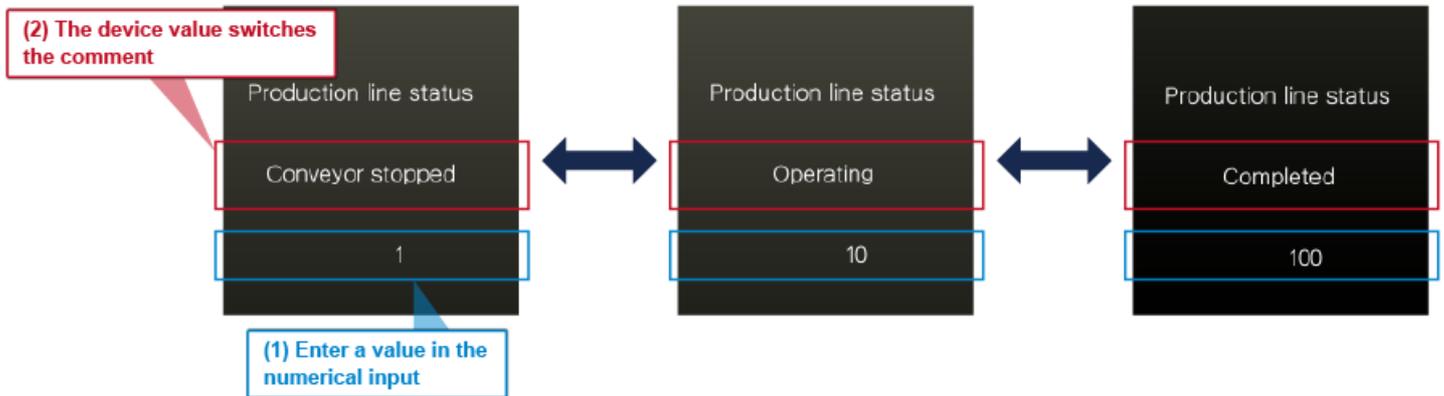Check the operation of the created project data by transferring data to the GOT or starting the simulator.
(For how to transfer projects or use the simulator, refer to "GT Works3 (GT Designer3) Basics (Elementary Screen Design)".)

(1) Input [1], [10], or [100] in the numerical input object and check that the comment is switched.

(2) The device value switches the comment

Production line status

Conveyor stopped

1

(1) Enter a value in the numerical input

Production line status

Operating

10

Production line status

Completed

100

Now that you have completed all of the lessons of the **Comment Display (Basics)** course, you are ready to take the final test. If you are unclear on any of the topics covered, please take this opportunity to review those topics.

There are a total of 4 questions (4 items) in this Final Test.

You can take the final test as many times as you like.

Score results

The number of correct answers, the number of questions, the percentage of correct answers, and the pass/fail result will appear on the score page.

Select the correct answer from the options.

Select the correct comment display used to switch that comment display by turning on/off a device.

Q1

○ **Bit comment**

○ **Word comment**

○ **Simple comment**

○ **Comment group**

Select the correct answer from the options.

Select the correct comment display used to switch that comment display according to the device value.

Q1

○ **Bit comment**

◉ **Word comment**

○ **Simple comment**

○ **Comment group**

Select the correct answer from the options.

Select the correct display method of word comment to display a different comment number with a device value being monitored.

Q1

- ● **Comment No.**
- ○ **Indirect device**
- ○ **Hold**

Select the correct answer from the options.

You are configuring the word comment settings.

Select the correct button to add a new condition (state).

Q1

- a
- b
- **c** (selected)

Word Comment Display

Basic Settings | Advanced Settings
Device/Style* | Comment | Extended | Trigger | Operation/Script

Comment Display Type: ○ Bit   ● Word

Device:

a → b → c

Number of States: 1

Range | Text | ➕ | ✖ | ⬆ | ⬇   Shape: None

Normal

0

[+]
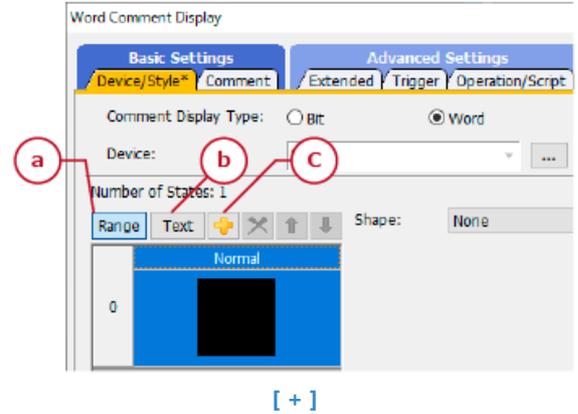
You have completed the Final Test. You results area as follows.
To end the Final Test, proceed to the next page

		1	2	3	4	5	6	7	8	9	10
	Final Test 1	✓									
	Final Test 2	✓									
	Final Test 3	✓									
	Final Test 4	✓									

Total questions: **4**

Correct answers: **4**

Percentage: **100** %

Clear

You have completed the Comment Display (Basics) course.

Thank you for taking this course.

We hope you enjoyed the lessons and the information you acquired in this course will be useful in the future.

You can review the course as many times as you want.

Review

Close