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The sample screen data and files such as the instruction manual can be used upon agreement to the following matters.

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(6) The Files may be deleted or the contents changed without prior notice.

(7) When using the Files, please always read the corresponding manuals and related manuals indicated therein. Please pay special attention to safety, and correctly handle the product.
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### Sample Screen Manual

<table>
<thead>
<tr>
<th>Date</th>
<th>Control No.*</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014/5</td>
<td>BCN-P5999-0383</td>
<td>First edition</td>
</tr>
<tr>
<td>2015/6</td>
<td>BCN-P5999-0383-2</td>
<td>Device Specification for Document ID</td>
</tr>
</tbody>
</table>

* The Control No. is noted at the lower right of each page.

### Project data

<table>
<thead>
<tr>
<th>Date</th>
<th>Project data</th>
<th>GT Designer*</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014/5</td>
<td>MITSUBISHI_RCPU-Ether_V_Ver1_E.GTX</td>
<td>1.117X</td>
<td>First edition</td>
</tr>
<tr>
<td>2015/6</td>
<td>MITSUBISHI_RCPU-Ether_V_Ver2_E.GTX</td>
<td>1.128J</td>
<td>Device Specification for Document ID</td>
</tr>
</tbody>
</table>

* The version number of screen design software used to create the project data is listed. Please use the screen design software with the listed version or later.
1. OUTLINE
This manual explains the sample screens of GOT2000 connected to a MELSEC iQ-R Series PLC via Ethernet connection. The sample screens are created for using the alarm function, logging function, and device monitor.

2. SYSTEM CONFIGURATION

GOT2000
• GT27**-V (640 x 480)
• Interface: Standard I/F (Ethernet)
• SD card *1
• Battery (GT11-50BAT) *2

*1: The SD card is used for the logging, document display functions.
*2: The battery is used for the backup of the clock data and the logging, user alarm data in the SRAM user area. (The battery is provided with the GOT as standard.)
*3: For more details about the cable, please refer to the "GOT2000 Series Connection Manual (Mitsubishi Products)".

2.1 Device Monitor Range
The device monitor range for this sample is as follows.

<table>
<thead>
<tr>
<th>Device</th>
<th>Device monitor range</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>0000-2FFF</td>
</tr>
<tr>
<td>Y</td>
<td>0000-2FFF</td>
</tr>
<tr>
<td>B</td>
<td>0000-1FFF</td>
</tr>
<tr>
<td>M</td>
<td>0-12279</td>
</tr>
<tr>
<td>D</td>
<td>0-18429</td>
</tr>
<tr>
<td>W</td>
<td>0000-1FFF</td>
</tr>
</tbody>
</table>
3. GOT

3.1 System Applications That Are Automatically Selected

<table>
<thead>
<tr>
<th>Type</th>
<th>System application name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Function</td>
<td>Standard System Application</td>
</tr>
<tr>
<td></td>
<td>Japanese Standard Font</td>
</tr>
<tr>
<td>Communication Driver</td>
<td>Ethernet Connection</td>
</tr>
<tr>
<td></td>
<td>Ethernet (MELSEC), Q17nNC, CRnD-700, Gateway</td>
</tr>
<tr>
<td>Extended Function</td>
<td>Standard Font</td>
</tr>
<tr>
<td></td>
<td>Chinese (Simplified)</td>
</tr>
<tr>
<td></td>
<td>Alphanumeric/Kana</td>
</tr>
<tr>
<td></td>
<td>Japanese (Kanji)</td>
</tr>
<tr>
<td></td>
<td>Chinese (Simplified)</td>
</tr>
<tr>
<td>Document Display</td>
<td></td>
</tr>
</tbody>
</table>

3.2 Controller Setting of Screen Design Software

**Detail Setting**

<table>
<thead>
<tr>
<th>Item</th>
<th>Set value</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>GOT NET No.</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>GOT Station No.</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>GOT Ethernet Setting</td>
<td>Refer to table below</td>
<td></td>
</tr>
<tr>
<td>GOT Communication Port No.</td>
<td>5001</td>
<td></td>
</tr>
<tr>
<td>Retry (Times)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Startup Time (Sec)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Timeout Time (Sec)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Delay Time (ms)</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

**GOT Ethernet Setting**

<table>
<thead>
<tr>
<th>Item</th>
<th>Set value</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reflect GOT Ethernet setting in the GOT</td>
<td>Checked</td>
<td></td>
</tr>
<tr>
<td>GOT IP Address</td>
<td>192.168.3.18</td>
<td></td>
</tr>
<tr>
<td>Subnet Mask</td>
<td>255.255.255.0</td>
<td></td>
</tr>
<tr>
<td>Default Gateway</td>
<td>0.0.0.0</td>
<td></td>
</tr>
<tr>
<td>Peripheral S/W Communication Port No.</td>
<td>5015</td>
<td></td>
</tr>
<tr>
<td>Transparent Port No.</td>
<td>5014</td>
<td></td>
</tr>
</tbody>
</table>

3.3 Ethernet Setting of Screen Design Software

<table>
<thead>
<tr>
<th>Host</th>
<th>Net No.</th>
<th>Station</th>
<th>Unit type</th>
<th>IP Address</th>
<th>Port No.</th>
<th>Communication</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>*</td>
<td>1</td>
<td>RCPU</td>
<td>192.168.3.39</td>
<td>5006</td>
<td>UDP</td>
</tr>
</tbody>
</table>
4. SCREEN SPECIFICATIONS

4.1 Display Language

The language of the text displayed on the screen can be switched between Japanese, English, and Chinese (Simplified). The text strings in each language are registered in the columns No. 1 to No. 3 in the comment groups No. 491 to 496, 499 and 500 as shown below. When the column No. is set in the language switching device, the language corresponding to the column No. will appear.

<table>
<thead>
<tr>
<th>Column No.</th>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>English</td>
</tr>
<tr>
<td>2</td>
<td>Japanese</td>
</tr>
<tr>
<td>3</td>
<td>Chinese (Simplified)</td>
</tr>
</tbody>
</table>

4.2 Screen Transition

4.2.1 Screen transition (common)

Window screen W-30003: Language Setting

Window screen W-30002: Clock Setting

Window screen W-30001: Alarm Reset
4.2.2 Screen transition (individual)
4.3 Explanation of Screens

4.3.1 Menu (B-30001)

Outline
This is the Menu screen.

Description
1. Switches to the [Device Monitor] menu screen.
3. Switches to the logging screen.
5. Displays the current date and time. Touch the button to open the [Clock Setting] window.

Remarks
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.
4.3.2 Device Monitor Menu (B-30002)

Outline
This is the device monitor menu screen.

Description
1. Switches to the [X Device] screen.
5. Switches to the [D Device] screen.
7. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
8. Shows unused switches for base screen switching.
9. Switches to the previously opened screen.
10. Displays the current date and time. Touch the button to open the [Clock Setting] window.

Remarks
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.
4.3.3 Alarm (B-30003)

Outline
This screen displays the alarm history.

Description
1. Displays alarms. Touch an alarm to display/hide the cursor.
   While touching the alarm display area, flicking the area will scroll the alarms up and down.
   The current alarm messages are shown in red, those of restored alarms in green, and those of
   confirmed alarms in light blue.
2. Operates alarms.
   : Scrolls the page up and down.
   : Scrolls alarms up and down line by line.
   Delete : Deletes only the selected restored alarm.
   Delete All : Deletes all the restored alarms.
   Check : Displays the date and time of the selected alarm for checking.
   Check All : Displays the date and time of all the alarms for checking.
3. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this
   switch will not switch the screen.
4. Shows unused switches for base screen switching.
5. Switches to the previously opened screen.
6. Displays the current date and time. Touch the button to open the [Clock Setting] window.

Remarks
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left
  end of the message, the display position of the message changes in the order of upper, center, and lower.
  When touching the other part of the message, the [Alarm Reset] window appears.
4.3.4 Logging (B-30004)

Outline
This screen displays the values collected with the logging function in numerical values and a historical trend graph.

Description
1. Displays the present values of No. 1 to 8 and the cursor display time on the graph.
2. Displays a historical trend graph of the values of No. 1 to 8. Touch the graph to show the cursor. While touching the graph area, flicking the area will scroll the graph left and right. Pinching out and in will zoom in and out the graph based on the time axis.
3. Displays the historical trend graph's beginning position time and end position time.
4. Operates the historical trend graph.
   - Zoom In: Enlarges (×2) the graph's time axis based on the new data axis.
   - Zoom Out: Reduces (×1/2) the graph's time axis based on the new data axis.
   - Page <<: Scrolls the page to the left.
   - Scroll <: Scrolls the graph to the left.
   - Cursor ←: Displays a cursor, and scrolls the cursor in the direction of the older data.
   - Cursor →: Displays a cursor, and scrolls the cursor in the direction of the newer data.
   - Scroll >: Scrolls the graph to the right.
   - Page >>: Scrolls the page to the right.
   - Update: Clears the cursor, and displays the latest data.
5. Shows the specified date and time in the center of the graph when the date and time are entered and the [Jump to Set Time] switch is touched. The current date and time are stored when the screen is initially displayed.
6. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
7. Shows unused switches for base screen switching.
8. Switches to the previously opened screen.
9. Displays the current date and time. Touch the button to open the [Clock Setting] window.
Remarks

- A screen script is set for the [Jump to Set Time] switch. For more details about scripts, please refer to "4.6 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.
Outline
This screen allows monitoring and setting of X devices.

Description
1. Displays the device range currently monitored.
2. Displays the current device statuses (lamps), device numbers, and comments. Touch a lamp or device number to invert the bit. The change confirmation window is displayed when a change is made.
3. Manipulates the monitored device numbers.
   - Address Top: Switches the device numbers to the first.
   - Previous Page: Switches the device numbers in steps of -16 points.
   - Address -1000h: Switches the device numbers in steps of -4096 points.
   - Address -0100h: Switches the device numbers in steps of -256 points.
   - Address +0100h: Switches the device numbers in steps of +256 points.
   - Address +1000h: Switches the device numbers in steps of +4096 points.
   - Next Page: Switches the device numbers in steps of +16 points.
4. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
5. Switches to the previously opened screen.
6. Displays the current date and time. Touch the button to open the [Clock Setting] window.

Remarks
- An offset device is set for the monitor device.
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.
4.3.6 Y Device (B-30006)

Outline
This screen allows monitoring and setting of Y devices.

Description
1. Displays the device range currently monitored.
2. Displays the current device statuses (lamps), device numbers, and comments. Touch a lamp or device number to invert the bit. The change confirmation window is displayed when a change is made.
3. Manipulates the monitored device numbers.
   - Address Top: Switches the device numbers to the first.
   - Previous Page: Switches the device numbers in steps of -16 points.
   - Address -1000h: Switches the device numbers in steps of -4096 points.
   - Address -0100h: Switches the device numbers in steps of -256 points.
   - Address +0100h: Switches the device numbers in steps of +256 points.
   - Address +1000h: Switches the device numbers in steps of +4096 points.
   - Next Page: Switches the device numbers in steps of +16 points.
4. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
5. Switches to the previously opened screen.
6. Displays the current date and time. Touch the button to open the [Clock Setting] window.

Remarks
- An offset device is set for the monitor device.
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.
Outline
This screen allows monitoring and setting of M devices.

Description
1. Displays the device range currently monitored.
2. Displays the current device statuses (lamps), device numbers, and comments. Touch a lamp or device number to invert the bit. The change confirmation window is displayed when a change is made.
3. Manipulates the monitored device numbers.
   - Address Top: Switches the device numbers to the first.
   - Previous Page: Switches the device numbers in steps of -10 points.
   - Address -1000: Switches the device numbers in steps of -1000 points.
   - Address -100: Switches the device numbers in steps of -100 points.
   - Address +100: Switches the device numbers in steps of +100 points.
   - Address +1000: Switches the device numbers in steps of +1000 points.
   - Next Page: Switches the device numbers in steps of +10 points.
4. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
5. Switches to the previously opened screen.
6. Displays the current date and time. Touch the button to open the [Clock Setting] window.

Remarks
- An offset device is set for the monitor device.
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.
4.3.8 B Device (B-30008)

Outline
This screen allows monitoring and setting of B devices.

Description
1. Displays the device range currently monitored.
2. Displays the current device statuses (lamps), device numbers, and comments.
   Touch a lamp or device number to invert the bit. The change confirmation window is displayed when a change is made.
3. Manipulates the monitored device numbers.
   - Address Top: Switches the device numbers to the first.
   - Previous Page: Switches the device numbers in steps of -16 points.
   - Address -1000h: Switches the device numbers in steps of -4096 points.
   - Address -0100h: Switches the device numbers in steps of -256 points.
   - Address +0100h: Switches the device numbers in steps of +256 points.
   - Address +1000h: Switches the device numbers in steps of +4096 points.
   - Next Page: Switches the device numbers in steps of +16 points.
4. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
5. Switches to the previously opened screen.
6. Displays the current date and time. Touch the button to open the [Clock Setting] window.

Remarks
- An offset device is set for the monitor device.
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.
4.3.9 D Device (B-30009)

Outline
This screen allows monitoring and setting of D devices.

Description
1. Displays the device range currently monitored.
2. Displays the current device numbers, comments, and device values.
   Touch a numerical value to change the value. The input confirmation dialog is displayed when a change is made.
3. Manipulates the monitored device numbers.
   - Address Top: Switches the device numbers to the first.
   - Previous Page: Switches the device numbers in steps of -10 points.
   - Address -1000: Switches the device numbers in steps of -1000 points.
   - Address -100: Switches the device numbers in steps of -100 points.
   - Address +100: Switches the device numbers in steps of +100 points.
   - Address +1000: Switches the device numbers in steps of +1000 points.
   - Next Page: Switches the device numbers in steps of +10 points.
4. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
5. Switches to the previously opened screen.
6. Displays the current date and time. Touch the button to open the [Clock Setting] window.

Remarks
- An offset device is set for the monitor device.
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.
Outline
This screen allows monitoring and setting of W devices.

Description
1. Displays the device range currently monitored.
2. Displays the current device numbers, comments, and device values. Touch a numerical value to change the value. The input confirmation dialog is displayed when a change is made.
3. Manipulates the monitored device numbers.
   - Address Top: Switches the device numbers to the first.
   - Previous Page: Switches the device numbers in steps of -16 points.
   - Address -1000h: Switches the device numbers in steps of -4096 points.
   - Address -0100h: Switches the device numbers in steps of -256 points.
   - Address +0100h: Switches the device numbers in steps of +256 points.
   - Address +1000h: Switches the device numbers in steps of +4096 points.
   - Next Page: Switches the device numbers in steps of +16 points.
4. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
5. Switches to the previously opened screen.
6. Displays the current date and time. Touch the button to open the [Clock Setting] window.

Remarks
- An offset device is set for the monitor device.
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.
4.3.11 Manual Display (B-30500)

Outline
This screen displays the manual of the currently displayed language.

Description
1. Manual Display displays a document with document ID (201 to 203) according to the language. The page 1 is displayed when the screen is displayed initially. While touching the document, flicking to 8 directions will scroll the document to 8 directions. While displaying the edge of the document, flicking the document will switch pages. Pinching out and in will zoom in and out the document in 3 steps (large, middle, and small).
2. These switches operate the displayed document.
   - : Enlarges or reduces the displayed document.
   - : Scrolls the displayed document to the left or right.
   - : Scrolls the displayed document up or down.
3. These switches operate the displayed document page.
   - : Displays the page number of the displayed document. Touch the value to change the page number.
   - : Switches to the previous or next page of the displayed document.
4. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
5. Shows unused switches for base screen switching.
6. Switches to the previously opened screen.
7. Displays the current date and time. Touch the area to open the [Clock Setting] window.
The language setting reflects documents for Manual display. The relation of the column No. of the comment group No., languages, and document (Document ID) is shown below.

<table>
<thead>
<tr>
<th>Column No. of the comment group No.</th>
<th>Language</th>
<th>Document ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>English</td>
<td>201</td>
</tr>
<tr>
<td>2</td>
<td>Japanese</td>
<td>202</td>
</tr>
<tr>
<td>3</td>
<td>Chinese (Simplified)</td>
<td>203</td>
</tr>
</tbody>
</table>

When GOT is started, the document page is set to No. "1" and the Document ID is set to "201" with the project script. For more details about scripts, please refer to "4.6 Script List".

The page feed switches are set not to exceed the total number of document pages by object script. For more details about scripts, please refer to "4.6 Script List".

The document data for the manual display should be prepared by the customers. For more details, please refer to "5. MANUAL DISPLAY".

If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.
Outline

This window screen allows resetting the system alarm.

Description

1. Resets the system alarm, and closes the window screen after 1 second.
2. Closes the window screen.

Remarks

4.3.13 Language Setting (W-30002)

Outline
This window screen allows setting the GOT language.

Description
1. Switches the language, and closes the window screen.
2. Closes the window screen.

Remarks
- The system language and Document ID for manual display also switched corresponding to the display language.
4.3.14 Clock Setting (W-30003)

Outline
This window screen allows changing the GOT clock data.

Description
1. Displays the current date and time.
2. Use ▼ ▲ switches to change the date and time. Hold down the switches to increment or decrement the value continuously. The [Reset] switch resets the seconds.
3. Applies the set date and time to the GOT clock data, and closes the window screen after 1 second.
4. Closes the window screen.

Remarks
- The date and time at window opening are initially set as the clock data to be newly set.
- Object scripts are set for the numerical display of the year, month, date, hour, minute and second in the clock data to be newly set. For more details about scripts, please refer to "4.6 Script List".
4.3.15 X (Y, M and B) Device Change Check (W-30004 to 30007)

Outline
This window screen is displayed when a bit is changed in the X (Y, M, or B) Device screen.

Description
1. Changes the device value, and closes the window screen.
2. Closes the window screen without changing the device value.

Remarks
- When the window is closed, the device number blinking in the base screen returns to the normal display.
- A screen script is set to execute the above operation. For more details about scripts, please refer to "4.6 Script List".
Outline
This system dialog is displayed to confirm a device value change when a device value is changed in the D (W) Device screen.

Description
1. Changes the device value, and closes the window screen.
2. Closes the window screen without changing the device value.

Remarks
4.4 Device List

Some of the devices specified for the on-screen switches, lamps, or others are also used for common settings of functions such as scripts. Using [Batch Edit] is recommended to change these devices in a batch. For details on using [Batch Edit], refer to "GT Designer3 (GOT2000) Help".

4.4.1 Devices of the controller

<table>
<thead>
<tr>
<th>Type</th>
<th>Device No.</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bit</td>
<td>X0000 to X000F</td>
<td>Monitor Device (X)</td>
</tr>
<tr>
<td></td>
<td>Y0000 to Y000F</td>
<td>Monitor Device (Y)</td>
</tr>
<tr>
<td></td>
<td>B0000 to B000F</td>
<td>Monitor Device (B)</td>
</tr>
<tr>
<td></td>
<td>M0 to M0009</td>
<td>Monitor Device (M)</td>
</tr>
<tr>
<td></td>
<td>M0 to M0019</td>
<td>Advanced User Alarm History Monitoring Device (ID30001)</td>
</tr>
<tr>
<td>Word</td>
<td>D0 to D00009</td>
<td>Monitor Device (D)</td>
</tr>
<tr>
<td></td>
<td>D0 to D0007</td>
<td>Logging Device (ID30001)</td>
</tr>
<tr>
<td></td>
<td>W0000 to W000F</td>
<td>Monitor Device (W)</td>
</tr>
</tbody>
</table>

4.4.2 GOT internal devices

<table>
<thead>
<tr>
<th>Type</th>
<th>Device No.</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bit</td>
<td>GB40</td>
<td>Script Trigger (Always ON)</td>
</tr>
<tr>
<td></td>
<td>GD60031.b13</td>
<td>GOT Error Reset Signal</td>
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<tr>
<td></td>
<td>GD60041.b11</td>
<td>Key Window Output Signal (System Signal 2-1)</td>
</tr>
<tr>
<td></td>
<td>GD61009.b0 to b15</td>
<td>Bit Device Blink Display Trigger</td>
</tr>
<tr>
<td></td>
<td>GS512.b0</td>
<td>Time Change Signal</td>
</tr>
<tr>
<td></td>
<td>GD60000</td>
<td>Base Screen Switching</td>
</tr>
<tr>
<td></td>
<td>GD60001</td>
<td>Overlap Window 1 Screen Switching</td>
</tr>
<tr>
<td></td>
<td>GD60004 to GD60006</td>
<td>Overlap Window 2 Screen Switching</td>
</tr>
<tr>
<td></td>
<td>GD60007</td>
<td>Action Condition Trigger Device of Device Number Switching Switch on Bit (X, Y, M, or B) Device Screen</td>
</tr>
<tr>
<td></td>
<td>GD60021</td>
<td>Language Switching</td>
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<tr>
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<td>GD60022</td>
<td>System Language Switching</td>
</tr>
<tr>
<td></td>
<td>GD60031</td>
<td>System Information (Read)</td>
</tr>
<tr>
<td></td>
<td>GD60041 to GD60074</td>
<td>System Information (Write)</td>
</tr>
<tr>
<td></td>
<td>GD60055</td>
<td>Current User Display User ID (System Information)</td>
</tr>
<tr>
<td></td>
<td>GD60080 to GD60082</td>
<td>Device Value Change Value Inversion Display Trigger</td>
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<td></td>
<td>GD61000</td>
<td>X Device Offset Device</td>
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<td>GD61001</td>
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<td>M Device Offset Device</td>
</tr>
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<td></td>
<td>GD61003</td>
<td>B Device Offset Device</td>
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<tr>
<td></td>
<td>GD61004</td>
<td>D Device Offset Device</td>
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<tr>
<td></td>
<td>GD61005</td>
<td>W Device Offset Device</td>
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<tr>
<td></td>
<td>GD61009</td>
<td>Blink Display Trigger Batch Clear (Script No. 30101)</td>
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<td></td>
<td>GD61010</td>
<td>X Device Change Check Window Offset Device</td>
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<tr>
<td></td>
<td>GD61011</td>
<td>Y Device Change Check Window Offset Device</td>
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<tr>
<td></td>
<td>GD61012</td>
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<td>GD61013</td>
<td>B Device Change Check Window Offset Device</td>
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<td></td>
<td>GD61201 to GD61208</td>
<td>Graph Information in Historical Trend Graph</td>
</tr>
<tr>
<td></td>
<td>GD61221 to GD61224</td>
<td>Cursor Position Time in Historical Trend Graph</td>
</tr>
<tr>
<td></td>
<td>GD61225 to GD61228</td>
<td>Beginning Position Time in Historical Trend Graph</td>
</tr>
<tr>
<td></td>
<td>GD61229 to GD61232</td>
<td>End Position Time in Historical Trend Graph</td>
</tr>
<tr>
<td></td>
<td>GD61233 to GD61235</td>
<td>Display Position Time Specification in Historical Trend Graph</td>
</tr>
<tr>
<td></td>
<td>GD63990 to GD63995</td>
<td>Clock Digital Switch</td>
</tr>
<tr>
<td></td>
<td>GS513 to GS516</td>
<td>Changed Time</td>
</tr>
<tr>
<td></td>
<td>GS650 to GS652</td>
<td>Current Time</td>
</tr>
<tr>
<td></td>
<td>TMP950 to TMP996</td>
<td>For Script Operation</td>
</tr>
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4.5 Comment List

<table>
<thead>
<tr>
<th>Comment Group No.</th>
<th>Comment No.</th>
<th>Where comments are used</th>
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<tbody>
<tr>
<td>491</td>
<td>No. 1 to No. 16</td>
<td>B-30005</td>
</tr>
<tr>
<td>492</td>
<td>No. 1 to No. 16</td>
<td>B-30006</td>
</tr>
<tr>
<td>493</td>
<td>No. 1 to No. 10</td>
<td>B-30007</td>
</tr>
<tr>
<td>494</td>
<td>No. 1 to No. 16</td>
<td>B-30008</td>
</tr>
<tr>
<td>495</td>
<td>No. 1 to No. 10</td>
<td>B-30009</td>
</tr>
<tr>
<td>496</td>
<td>No. 1 to No. 16</td>
<td>B-30010</td>
</tr>
<tr>
<td>499</td>
<td>No. 1 to No. 20</td>
<td>B-30003 (User alarm observation ID 30001)</td>
</tr>
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<table>
<thead>
<tr>
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<tbody>
<tr>
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<td>B-30001</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>B-30002</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>B-30002 to B-30004, B-30500</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>B-30001 to B-30004, B-30500</td>
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</tr>
<tr>
<td>5</td>
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<td>7</td>
<td>B-30002 to B-30004</td>
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</tr>
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<td>B-30002 to B-30010, B-30500</td>
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<td>B-30002 to B-30010, B-30500</td>
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<tr>
<td>10</td>
<td>B-30005 to B-30010</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>B-30003</td>
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<td>41</td>
<td>B-30005 to B-30010</td>
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</tr>
<tr>
<td>44</td>
<td>B-30005, B-30006, B-30008, B-30010</td>
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<tr>
<td>48</td>
<td>B-30007, B-30009</td>
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<td>60</td>
<td>B-30004</td>
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</tr>
<tr>
<td>101</td>
<td>W-30001</td>
<td></td>
</tr>
<tr>
<td>102</td>
<td>W-30001</td>
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<td>103</td>
<td>W-30002</td>
<td></td>
</tr>
<tr>
<td>104</td>
<td>W-30003</td>
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</tr>
<tr>
<td>112</td>
<td>W-30004 to B-30007</td>
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</tr>
</tbody>
</table>

4.6 Script List

<table>
<thead>
<tr>
<th>Item</th>
<th>Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project script</td>
<td>Specified</td>
</tr>
<tr>
<td>Screen script</td>
<td>B-30004, B-30500, W-30004, W-30005, W-30006, W-30007</td>
</tr>
<tr>
<td>Object script</td>
<td>B-30500,W-30003</td>
</tr>
</tbody>
</table>

4.6.1 Project script

<table>
<thead>
<tr>
<th>Script No.</th>
<th>Script name</th>
<th>Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>30001</td>
<td>Script30001</td>
<td></td>
</tr>
<tr>
<td>Comment</td>
<td>Initial Setting</td>
<td></td>
</tr>
<tr>
<td>Data type</td>
<td>Signed BIN16</td>
<td></td>
</tr>
<tr>
<td>Trigger type</td>
<td>Rise, GB40</td>
<td></td>
</tr>
</tbody>
</table>

[w:GD60080]=201; //Set Document ID to 201
[w:GD60081]=1;  //Set Document page No. to 1
4.6.2 Screen script

<table>
<thead>
<tr>
<th>Base screen 30004</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Script No.</strong></td>
</tr>
<tr>
<td><strong>Script name</strong></td>
</tr>
<tr>
<td><strong>Comment</strong></td>
</tr>
<tr>
<td><strong>Data type</strong></td>
</tr>
<tr>
<td><strong>Trigger type</strong></td>
</tr>
</tbody>
</table>

//Store Year, Month, Day, Hour, Minute, Second When Screen Is Displayed
[w:GD61233]=w:GS650;
[w:GD61234]=w:GS651;
[w:GD61235]=w:GS652;

Base screen 30500

| **Script No.** | 30002 |
| **Script name** | Script30002 |
| **Comment** | DocumentDisplayProcessOfLastPage |
| **Data type** | Unsigned BIN16 |
| **Trigger type** | Ordinary |

//Check the total number of document pages is not 0.
if([w:GD60082]!=0){
    //Compare the current page number to the total number of document pages to see if the current page number exceeds the total number.
    if([w:GD60081]>[w:GD60082]){  
        //Set the last page to display.
        [w:GD60081]=[w:GD60082];
    }
}

Window screen 30004 to 30007

| **Script No.** | 30101 |
| **Script name** | Script30101 |
| **Comment** | Blink Display Stop |
| **Data type** | Signed BIN16 |
| **Trigger type** | When closing a screen |

//Stop Blink Display of Specified Device Number
[w:GD61009]=0;

4.6.3 Object script

<table>
<thead>
<tr>
<th>Base screen 30500</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object</strong></td>
</tr>
<tr>
<td><strong>Object ID</strong></td>
</tr>
<tr>
<td><strong>Script user ID</strong></td>
</tr>
<tr>
<td><strong>Data type</strong></td>
</tr>
<tr>
<td><strong>Trigger type</strong></td>
</tr>
</tbody>
</table>

//Do not exceed the total number of the document pages.
if([u16:GD60081] >= [u16:GD60082]){  
    [u16:GD60081] = [u16:GD60082] - 1;
}

Window screen 30003

| **Object** | Numerical Display |
| **Object ID** | *1 20014 |
| **Script user ID** | 1 |
| **Data type** | Unsigned BIN16 |
| **Trigger type** | Rise, GB40 |

//Obtain Today's Year & Month from Clock Data
[w:TMP950] = [w:GS650] & 0xF000; //Obtain Tenths Digit of "Last 2-Digits of Year" from Clock Data for Setting
[w:TMP960] = [w:TMP950] >> 12; //Decimal Alignment
[w:TMP968] = [w:TMP960] * 10;//BCD->BIN
[w:TMP951] = [w:GS650] & 0x0F00; //Obtain Ones Digit of "Last 2-Digits of Year" from Clock Data for Setting
[w:TMP961] = [w:TMP951] >> 8;//BCD->BIN
[w:TMP973] = 2000 + [w:TMP968] + [w:TMP961]; //Set Year to TMP973 as BIN
[w:GD63990] = [w:TMP973]; //Set Year

[w:TMP952] = [w:GS650] & 0x00F0; //Obtain Tenths Digit of Month from Clock Data for Setting
[w:TMP962] = [w:TMP952] >> 4; //Decimal Alignment
[w:TMP969] = [w:TMP962] * 10;//BCD->BIN
[w:TMP953] = [w:GS650] & 0x000F; //Obtain Ones Digit of Month from Clock Data for Setting
[w:TMP974] = [w:TMP969] + [w:TMP953]; //Set Month to TMP974 as BIN
\[ \text{[w:GD63991]} = [\text{w:TMP974}]; \quad \text{//Set Month} \]

\[ [\text{w:TMP954}] = [\text{w:GS651}] \& 0xF000; \quad \text{//Obtain Tenths Digit of "Last 2-Digits of Day" from Clock Data for Setting} \]
\[ [\text{w:TMP963}] = [\text{w:TMP954}] \gg 12; \quad \text{//Decimal Alignment} \]
\[ [\text{w:TMP970}] = [\text{w:TMP963}] \times 10; \quad \text{//BCD->BIN} \]
\[ [\text{w:TMP955}] = [\text{w:GS651}] \& 0x0F00; \quad \text{//Obtain Ones Digit of "Last 2-Digits of Day" from Clock Data for Setting} \]
\[ [\text{w:TMP964}] = [\text{w:TMP955}] \gg 8; \quad \text{//BCD->BIN} \]
\[ [\text{w:TMP975}] = [\text{w:TMP970}] + [\text{w:TMP964}]; \quad \text{//Set Day to TMP975 as BIN} \]
\[ [\text{w:GD63992}] = [\text{w:TMP975}]; \quad \text{//Set Day} \]

\[ [\text{w:TMP956}] = [\text{w:GS651}] \& 0x00F0; \quad \text{//Obtain Tenths Digit of Hour from Clock Data for Setting} \]
\[ [\text{w:TMP971}] = [\text{w:TMP956}] \gg 4; \quad \text{//Decimal Alignment} \]
\[ [\text{w:TMP957}] = [\text{w:GS651}] \& 0x000F; \quad \text{//Obtain Ones Digit of Hour from Clock Data for Setting} \]
\[ [\text{w:TMP976}] = [\text{w:TMP971}] + [\text{w:TMP957}]; \quad \text{//Set Hour to TMP976 as BIN} \]
\[ [\text{w:GD63993}] = [\text{w:TMP976}]; \quad \text{//Set Hour} \]

\[ [\text{w:TMP958}] = [\text{w:GS652}] \& 0xF000; \quad \text{//Obtain Tenths Digit of "Last 2-Digits of Minute" from Clock Data for Setting} \]
\[ [\text{w:TMP972}] = [\text{w:TMP958}] \gg 12; \quad \text{//Decimal Alignment} \]
\[ [\text{w:TMP959}] = [\text{w:GS652}] \& 0x00F0; \quad \text{//Obtain Tenths Digit of Minute from Clock Data for Setting} \]
\[ [\text{w:TMP967}] = [\text{w:TMP959}] \gg 8; \quad \text{//BCD->BIN} \]
\[ [\text{w:TMP977}] = [\text{w:TMP972}] + [\text{w:TMP957}]; \quad \text{//Set Minute to TMP977 as BIN} \]
\[ [\text{w:GD63994}] = [\text{w:TMP977}]; \quad \text{//Set Minute} \]

\[ [\text{w:TMP993}] = [\text{w:GS652}] \& 0x00F0; \quad \text{//Obtain Tenths Digit of Second from Clock Data for Setting} \]
\[ [\text{w:TMP996}] = [\text{w:TMP993}] \gg 4; \quad \text{//Decimal Alignment} \]
\[ [\text{w:TMP995}] = [\text{w:GS652}] \& 0x000F; \quad \text{//Obtain Ones Digit of Second from Clock Data for Setting} \]
\[ [\text{w:TMP978}] = [\text{w:TMP996}] + [\text{w:TMP995}]; \quad \text{//Set Second to TMP978 as BIN} \]
\[ [\text{w:GD63995}] = [\text{w:TMP978}]; \quad \text{//Set Second} \]

Object Numerical Display Object ID *1 20015
Script user ID 2
Data type Unsigned BIN16 Trigger type Ordinary

//BIN -> BCD Conversion
\[ [\text{w:TMP979}] = [\text{w:GD63990}] \times 2000; \quad \text{//Last 2-Digits of Year} \]

\[ [\text{w:TMP980}] = ([[\text{w:TMP979}] / 10] \times 4) + ([\text{w:TMP979}] \times 10); \quad \text{//Year BIN -> BCD} \]
\[ [\text{w:TMP981}] = ([[\text{w:GD63991}] / 10] \times 4) + ([\text{w:GD63991}] \times 10); \quad \text{//Month BIN -> BCD} \]
\[ [\text{w:TMP982}] = ([[\text{w:GD63992}] / 10] \times 4) + ([\text{w:GD63992}] \times 10); \quad \text{//Day BIN -> BCD} \]
\[ [\text{w:TMP983}] = ([[\text{w:GD63993}] / 10] \times 4) + ([\text{w:GD63993}] \times 10); \quad \text{//Hour BIN -> BCD} \]
\[ [\text{w:TMP984}] = ([[\text{w:GD63994}] / 10] \times 4) + ([\text{w:GD63994}] \times 10); \quad \text{//Minute BIN -> BCD} \]
\[ [\text{w:TMP985}] = ([[\text{w:GD63995}] / 10] \times 4) + ([\text{w:GD63995}] \times 10); \quad \text{//Second BIN -> BCD} \]

Object Numerical Display Object ID *1 20016
Script user ID 3
Data type Unsigned BIN16 Trigger type Ordinary

//Year & Month Setting
\[ [\text{w:GS513}] = ([\text{w:TMP980}] \times 8) + [\text{w:TMP981}]; \quad \text{//Set Year & Month to Change Time Device} \]

Object Numerical Display Object ID *1 20017
Script user ID 4
Data type Unsigned BIN16 Trigger type Ordinary

//Date & Time Setting
\[ [\text{w:GS514}] = ([\text{w:TMP982}] \times 8) + [\text{w:TMP983}]; \quad \text{//Set Date & Time to Change Time Device} \]
### Object Numerical Display

<table>
<thead>
<tr>
<th>Script user ID</th>
<th>Object ID *1</th>
<th>20018</th>
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<tr>
<td>Data type</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Unsigned BIN16</td>
<td>Trigger type</td>
</tr>
</tbody>
</table>

//Minute & Second Setting

\[
[w:GS515] = ([w:TMP984] << 8) + [w:TMP985];  \quad \text{//Set Minute & Second to Change Time Device}
\]

### Device

<table>
<thead>
<tr>
<th>Object Numerical Display</th>
<th>Object ID *1</th>
<th>20019</th>
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<tbody>
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<tr>
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<td></td>
</tr>
<tr>
<td></td>
<td>Unsigned BIN16</td>
<td>Trigger type</td>
</tr>
</tbody>
</table>

//Day of Week Setting

\[
[w:TMP986] = [w:GD63990];  \quad \text{//Year (BIN)}
[w:TMP987] = [w:GD63991];  \quad \text{//Month (BIN)}
[w:TMP988] = [w:GD63992];  \quad \text{//Day (BIN)}
\]

if(([w:TMP987] == 1) || ([w:TMP987] == 2)){  \quad \text{//Correction Processing to Calculate January and February as 13th/14th Month}
    [w:TMP986] = [w:TMP986] - 1;  \quad \text{//Subtract 1 from Year}
    [w:TMP987] = [w:TMP987] + 12;  \quad \text{//Add 12 to Month}
}

[w:TMP989] = [w:TMP986]/4;  \quad \text{//Create Items Required for Zeller's Congruence}
[w:TMP990] = [w:TMP986]/100;  \quad \text{//Create Items Required for Zeller's Congruence}
[w:TMP991] = [w:TMP986]/400;  \quad \text{//Create Items Required for Zeller's Congruence}
[w:TMP992] = (13*[w:TMP987]+8)/5;  \quad \text{//Create Items Required for Zeller's Congruence}

//Calculate Day of Week Using Zeller's Congruence and Set the Day to Change Time Device
\[
[w:GS516] = ([w:TMP986]+[w:TMP989]-[w:TMP990]+[w:TMP991]+[w:TMP992]+[w:TMP988])\%7;
\]

*1 The Object ID might be changed when a screen is utilized.
5. MANUAL DISPLAY

Manuals can be displayed using the document display function. For more details about the document display function, please refer to the "GT Designer3 (GOT2000) Help". Please note that the document display function does not support language switching. Therefore, in the sample screens, the language of document is switched by switching the document (Document ID) specified for a display language.

5.1 Preparing Document Data for Manual Display

Example: Displaying an English manual (document) for Manual Display on the base screen B-30500

(1) Convert the manual (Word or Excel, etc.) to be displayed into the document data (JPEG file) that can be used with the document display function by using Document Converter. Set the Document Converter's [Document ID] to 201.

*For details of the relation between Document ID and Display language, please refer to the table below.

<table>
<thead>
<tr>
<th>Column No. of the comment group No</th>
<th>Language</th>
<th>Document ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>English</td>
<td>201</td>
</tr>
<tr>
<td>2</td>
<td>Japanese</td>
<td>202</td>
</tr>
<tr>
<td>3</td>
<td>Chinese (Simplified)</td>
<td>203</td>
</tr>
</tbody>
</table>

*Please use Document Converter 2.09k or later. The total number pages and pages switches cannot work properly with 2.08 or older versions.

(2) The document data is generated in the 201 folder in the DOCIMG. Save the entire DOCIMG folder into the SD card root directory without changing the folder configuration inside the DOCIMG folder.

Note: In case the total number of pages is 100 or more.
This sample is made with the assumption that the total number of pages is up to 99 pages. If it exceeds 99 pages, please modify the format of numerical input (the number of "#") that displays the total number of pages and the page number of the currently displayed page.
6. OTHERS

6.1 Changing Device Monitor Range

The device monitor range is set within the device default use range of R08CPU. For more details about scripts, please refer to "2.1 Device Monitor Range". The monitor range can be changed.

Correct the condition values and reset values of the "Address +0100h", "Address +1000h", and "Next Page" switches for each device monitor screen (B-30005 to B-30010). (For the M Device (B-30007) and D Device (B-30009), the switches are "Address +100", "Address +1000", and "Next Page".)

If the device monitor range is 0000 to 1FFF (8191), the value of the last offset device is 8176 (1FF0).

If the device monitor range is changed to 0000 to 3FFF (16383), the value of the last offset device is 16368 (3FF0).

→ Set 16368 as the condition value and reset value.