Technical Information

GX/GP Custom Display
Setup Guide

TI 04L51B01-03EN

Contents

YOKOGAWA

Yokogawa Electric Corporation
2-9-32, Nakacho, Musashino-shi, Tokyo, 180-8750 Japan

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Foreword

This manual describes the procedure for using the DXA170 DAQStudio (hereinafter *DAQStudio*) to create custom display screens for the GX10, GX20, GP10, and GP20 paperless recorders (hereinafter *the GX/GP*). In this manual, the GX10 and DAQStudio are used in examples, but the procedure for the other models is the same. For further details, please refer to the user's manuals of the other products.

Applicable products

DXA170 DAQStudio (release number R5.02.01)

GX10/GX20 Paperless Recorder (with /CG option, release number R4)

GP10/GP20 Paperless Recorder (with /CG option, release number R4)

Precautions

- The contents of this manual may change without notice due to performance and functional improvements.
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2nd Edition: June, 2017 (YK)

PC system requirements for DAQStudio

Operating system (OS)

Run DAQStudio under any of the following OSs.

- Windows 7 Home Premium (32-bit, 64-bit)
- Windows 7 Professional (32-bit, 64-bit)
- Windows 8.1 (32-bit, 64-bit)
- Windows 8.1 Professional (32-bit, 64-bit)
- Windows 10 Home (32-bit, 64-bit)
- Windows 10 Pro (32-bit, 64-bit)

The languages displayed by the software under different language versions of the OS are as follows.

OS language	Software display language (language that can be installed)
Japanese	Japanese
English	English
Chinese	Chinese
German	German
French	French
Russian	Russian
Korean	Korean

Personal computer

Configuration

A PC that runs one of the OSs above, and that meets the following CPU and memory requirements.

CPU and main memory

Intel x64 or x86 Pentium 4, 3 GHz or faster.
2 GB or more of memory.

Hard disk

100 MB or more of free space.

CD-ROM drive

A CD-ROM disk drive supported by the OS (for use during installation).

Mouse

A mouse supported by the OS.

Display

A video card recommended for use with the OS, and a display of 1024 × 768 dpi or higher with 65,536 colors or more (16-bit High Color) supported by the OS.

Communication port

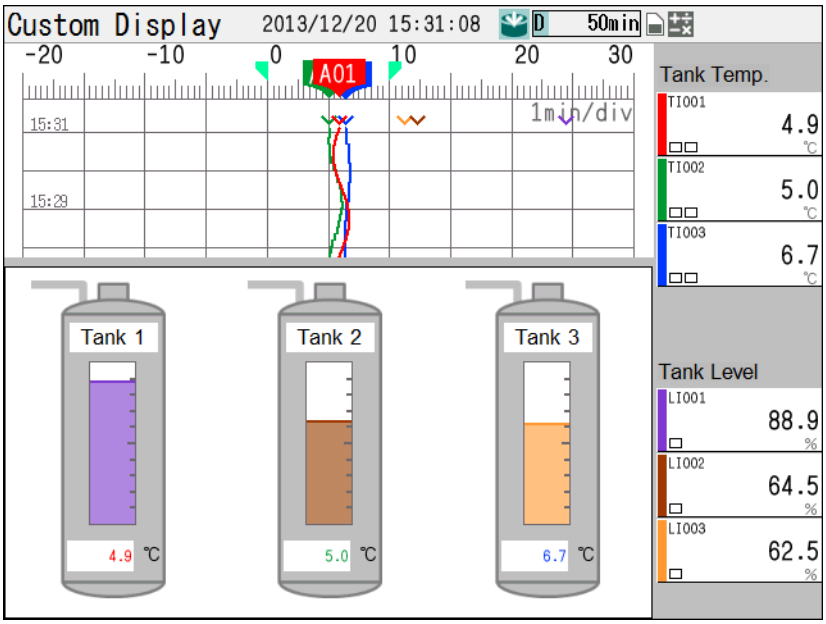
An Ethernet port supported by the OS (10Base-T). Requires that TCP/IP protocol be installed.

1. Overview

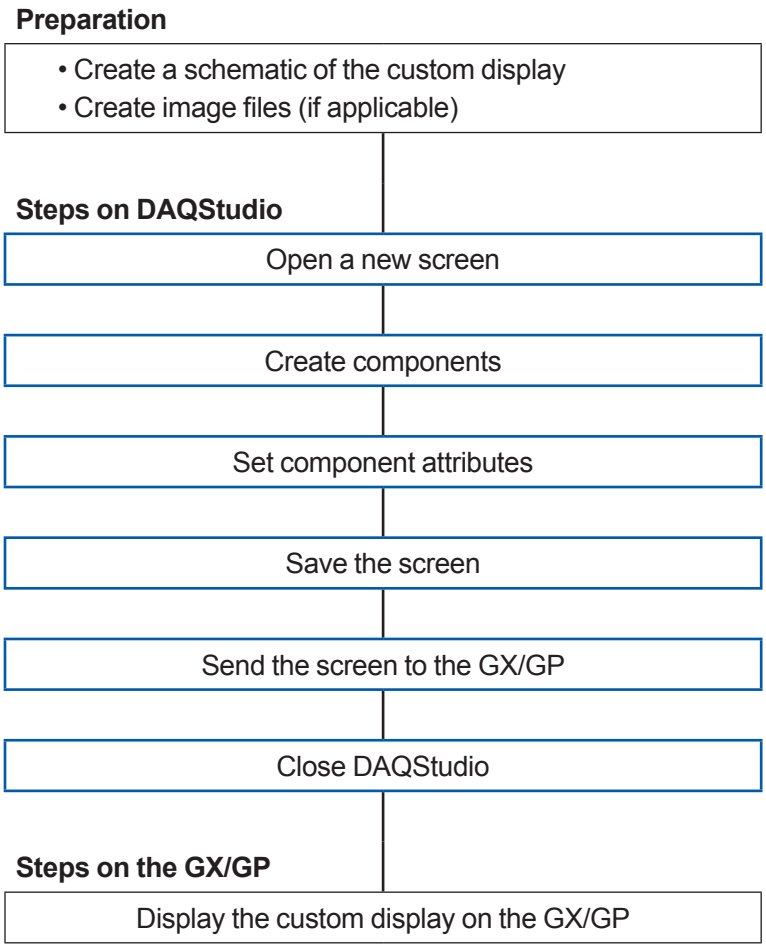
With the Custom Display function you can create your own monitor screens for use on GX/GP paperless recorders. Along with trend, digital, bar graph, and other displays, you can place images on your screens. Adding images of the site to your screens provides more intuitive monitoring of the actual process.

You create custom display screens by using dedicated software, DXA170 DAQStudio. You can transfer the screens you create with DAQStudio onto the GX/GP using Ethernet communications or an external memory medium (SD card), and display them.

The screen below is an example of monitoring and recording temperature and level inside a tank with a custom display screen. This screen (hereinafter *the example screen*) is used throughout this manual in describing the process of creating custom display screens.



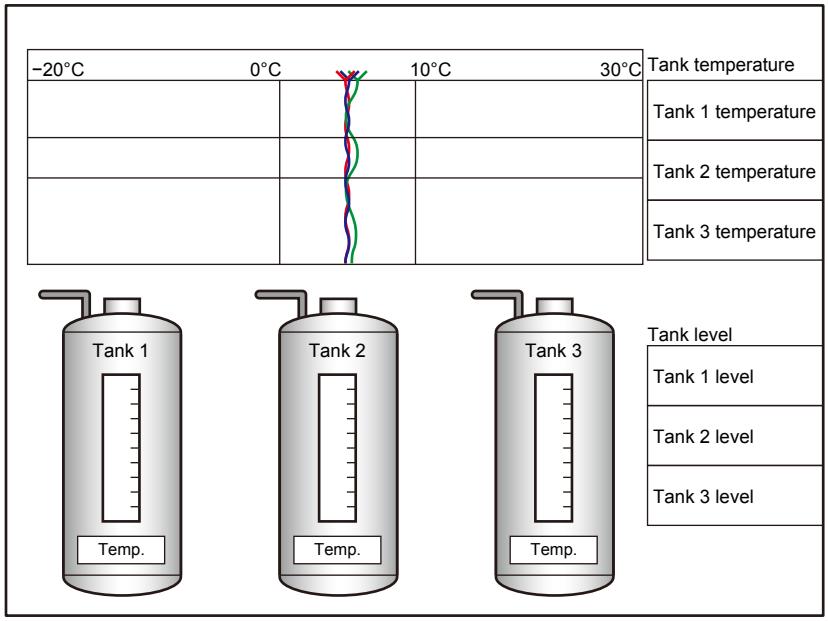
Flow of creating custom displays



2. Preparation

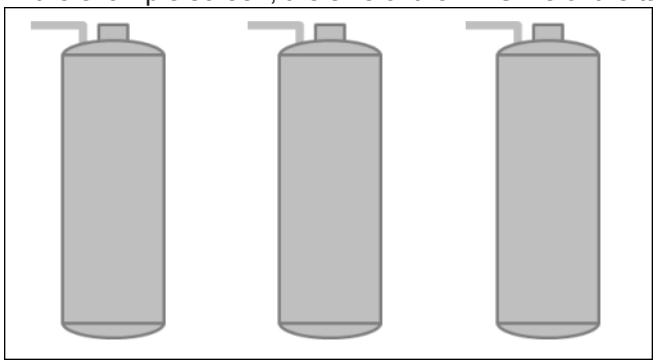
■ Creating a schematic of the monitor screen

Before creating a custom display on DAQStudio, prepare a schematic to determine the placement of digital values, trends, images, and other objects. In DAQStudio, the digital values, trends, and other objects you place on the screen are called *components*.



■ Creating PNG files (if adding images)

If you plan on using images in your custom displays, create images with the following attributes.
File format: PNG
File name: Up to 32 alphanumeric characters
In the example screen, the size of the PNG file of the tanks is 506 × 275 pixels.



The GX/GP can display PNG files of the following sizes, in pixels.

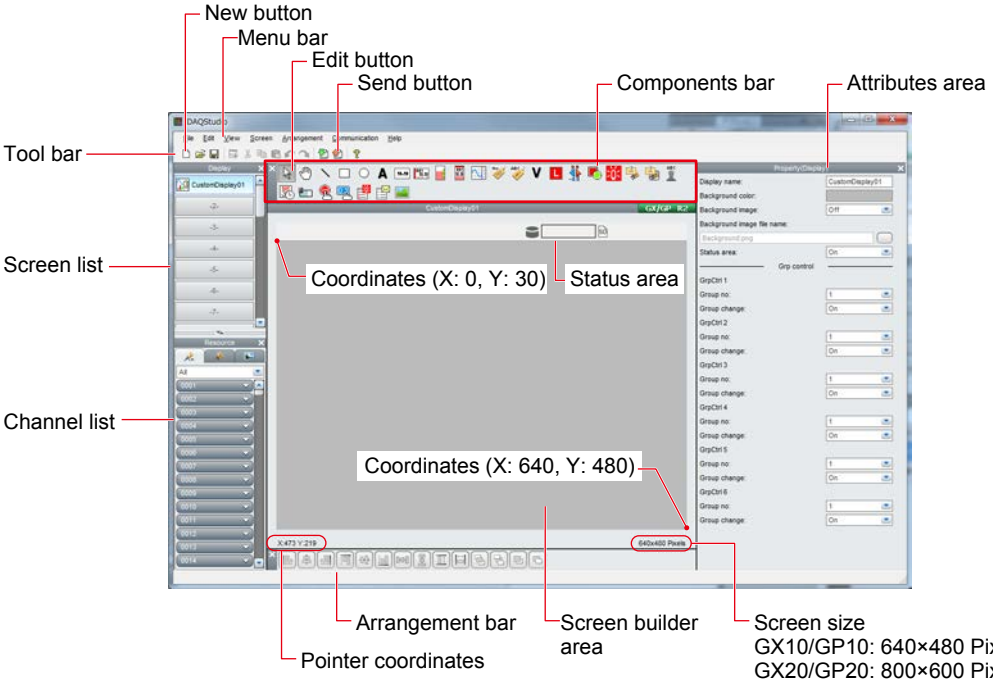
GX10/GP10: 640 or less (W) × 480 (450*) or less (H)
GX20/GP20: 800 or less (W) × 600 (570*) or less (H)
* If the screen's status display is left in its initial state (ON)

- If the image exceeds either the maximum width or height, the GX/GP cannot display it.
- The GX/GP cannot resize the image to fit. Size the image appropriately before use.

3 Steps on DAQStudio

3.1 Opening a new screen

1. On the Windows **Start** menu, click **All programs** > **DAQStudio** > **DAQStudio** to start DAQStudio.
2. On the menu bar, click **File** > **New**, or click the **New** (🗋) button.
   The New dialog box appears.
3. Under **Model**, select **GX10/GP10**, and then click **OK**.
   A new screen for the GX10/GP10 appears. Keep the initial main unit release number setting.



IMPORTANT

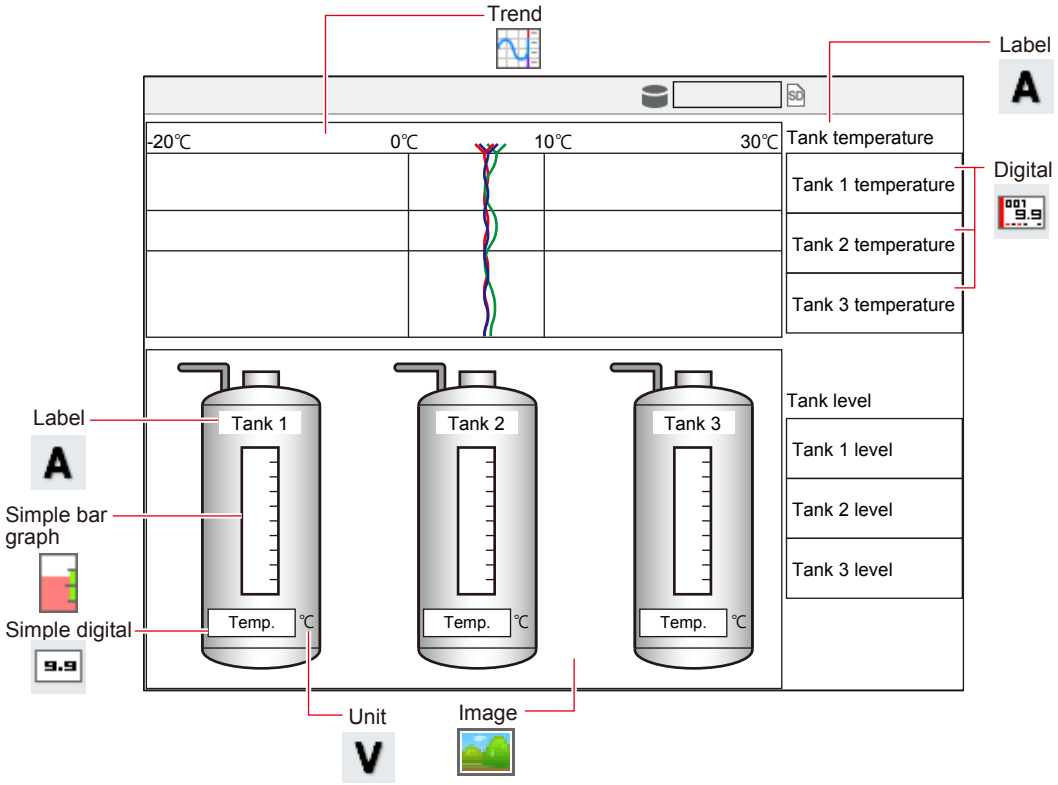
When you open a new screen, any previously open screen (including the screen list) is discarded. To save a screen in progress, see section 3.4, "Saving screens."

3.2 Creating components

You create trends, digital values, and other components in the screen builder area. You can create them in any order. The most recently placed components appear in front of previous components, but you can change the arrangement (to front, to back, forward, backward) at any time. Trend display components and static image components (images) cannot be displayed if they overlap (for details, see the user's manual).

> If trend display components (trends) overlap with other components, only the trend is displayed (and not the other components) whether it is arranged in front or in back of the other components. If two trends overlap, only the trend in front is displayed. If two static image components overlap, the one in back is not displayed, therefore you should place them so that they do not overlap.

The buttons for components used in the example screen are shown in the table below.



Button	Name	Component type	Description
	Trend	Trend display	Displays trend graphs.
	Digital	Ch assignment (general purpose)	Displays measured data from the assigned channel as numeric values. It can display channel numbers, alarm indicators, and other parameters.
	Label	Label (general purpose)	Displays user text strings.
	Image	Static image display (gen. purpose)	Displays static images in PNG format.
	Simple bar graph	Ch assignment (general purpose)	Displays measured data from the assigned channel in a bar graph.
	Simple digital	Ch assignment (general purpose)	Displays measured data from the assigned channel as numeric values.
	Unit	Ch assignment (general purpose)	This component displays the unit of the assigned channel.

For a complete list of component buttons, see appendix 2.

Main procedures and descriptions for creating components

The maximum number of components that you can create on one screen is 210. This includes up to 200 general purpose components, up to 6 trend display components, and up to 4 summary display components (alarm or message summaries). For details, see the user's manual.

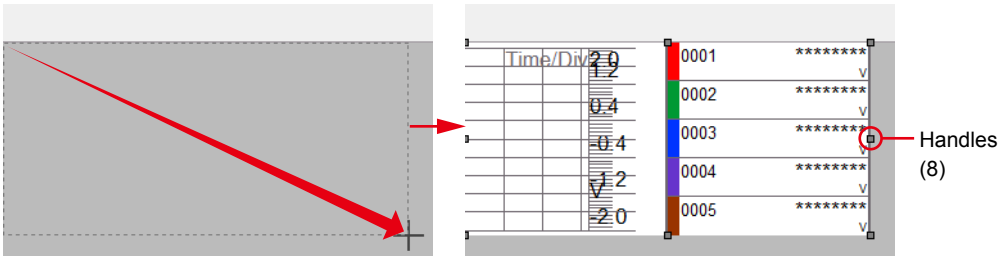
Selecting a grid

You can select a grid in the screen builder area of 1, 5, 10, 20, or 50 dots. The initial value is 1 dot. The grid is displayed when you select something other than 1 dot. You can place components on the grid that you select.

Creating components

1. On the component bar, click the button of the component that you want to create.

2. Drag an outline in the screen builder area.
The component is created in the size and location of the outline. You can change its size any time.



DAQStudio assigns an ID number to components in the order that you create them, but it is not necessary to keep track of these numbers.

Selecting components

To select a component, click it with the selection tool on the component bar ( ).
You can select multiple components by holding down the **Shift** or **Ctrl** key while selecting them, or by dragging over them with the mouse.

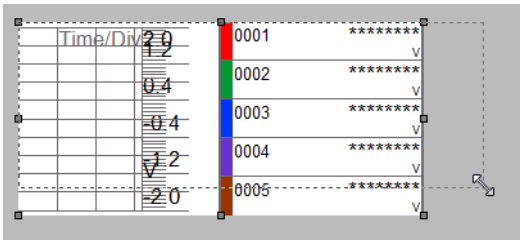
Reference component

A *reference component* is used when selecting multiple components and changing their alignments relative to each other. The handles of the reference component are gray.
To change the reference component, select multiple components and then hold down the **Ctrl** key while clicking the new reference component.

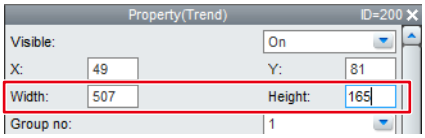
Changing the size of a component

To change a component's size, select the component and then drag one of its handles, or change the Width or Height value in the Attributes area.

Drag to change the size



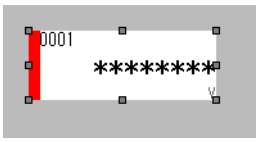
Change the size in the properties

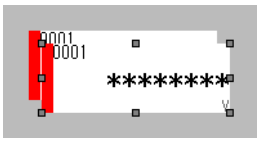


Copying and pasting components

You can create a new component by copying an existing one.

1. Select a component to copy.
2. On the **Edit** menu, click **Copy**, or click the **Copy** () button.
3. On the **Edit** menu, click **Paste**, or click the **Paste** () button.



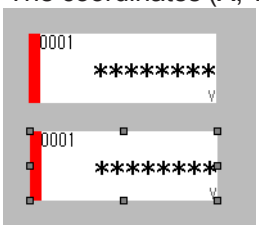


Moving components

You can move a component by dragging it, or by selecting it and clicking the arrow keys on the keyboard.

You can also move it by changing its X and Y values in the Attributes area.

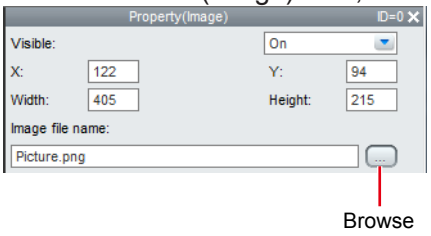
The coordinates (X, Y) of a component refer to its *anchor point*, which is its upper-left vertex.



Placing images

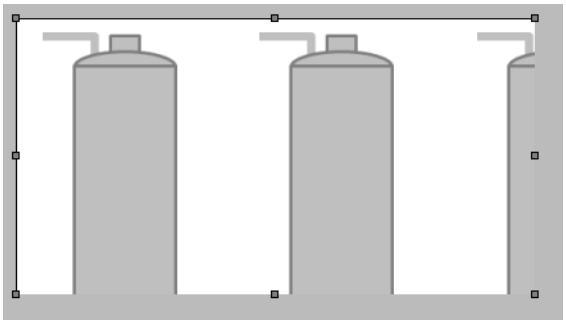
1. On the component bar, click the **Image** () button.
2. Drag an outline in the screen builder area.

3. In the Attributes (Image) area, click the browse button.

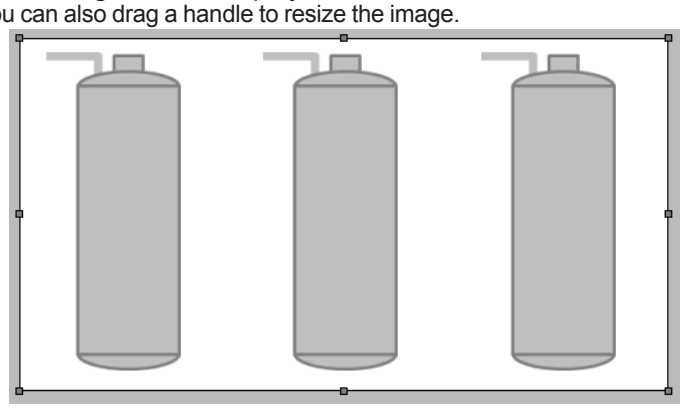


The Open dialog box appears.

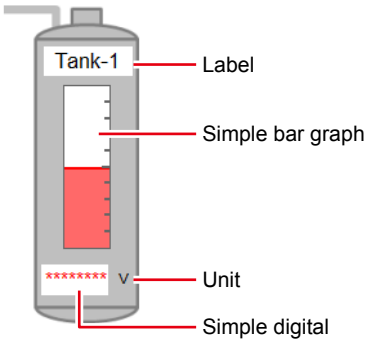
4. Select an image file (PNG), and then click **Open**.
The selected image is displayed. If the image is larger than the image file display area, part of the image is hidden.



5. In the Attributes area, you can change the width and height of the image file so that the entire image can be displayed.
You can also drag a handle to resize the image.



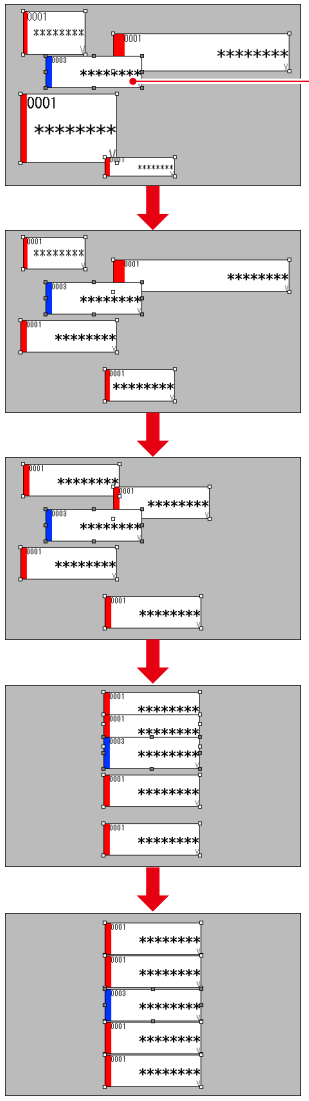
By placing components in front of the tank image, you can make the tank look like the one in the example screen.



Note 1: When placing multiple image components, ensure that they do not overlap. If they overlap, the image in back cannot be displayed.
Note 2: DAQStudio displays the unit as "V." The GX/GP displays the unit of the channel assigned to the unit component.

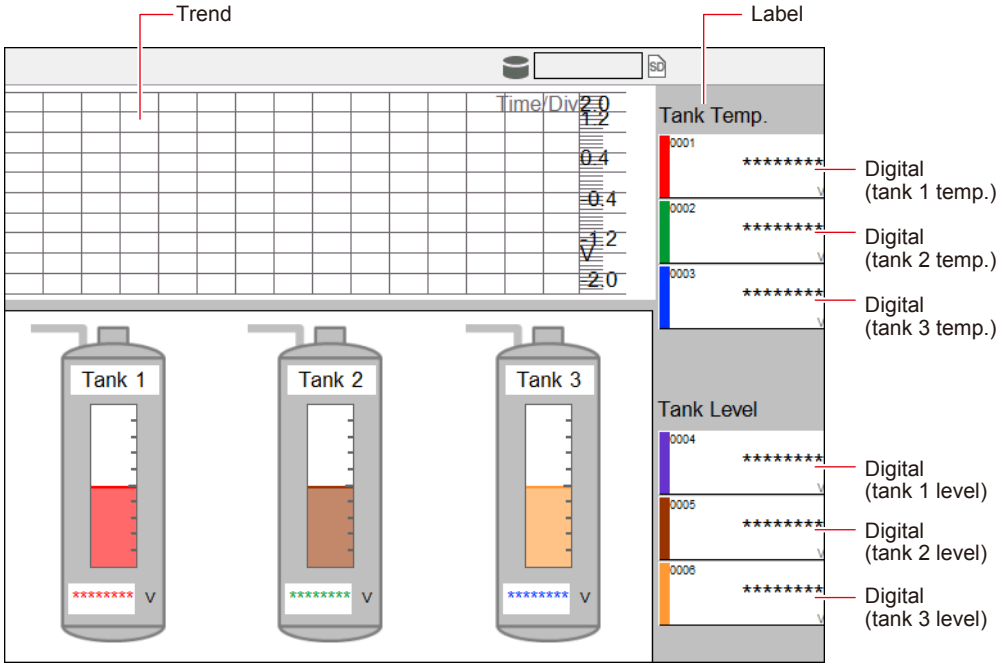
Using the arrangement bar

By using buttons on the arrangement bar, you can easily change the alignment and size of components. Select multiple components, and then click one or more of the buttons.



3.3 Setting component attributes

You can set the attributes of components that you place on the screen. The following describes only attributes that were changed in the creation of the example screen. Unless otherwise noted, the component's initial attributes are used. For details about component attributes, see the user's manual.



Trend

Digital display: Off

When you create a new trend component, it displays digital values unless the component is too small. The example screen only displays waveforms, therefore the digital display is turned Off.

- The waveform direction is Setting (the initial value). *Setting* means it depends on the current setting of the GX/GP main unit. If it does not depend on the GX/GP main unit, you can set it to Vertical or Horizontal.

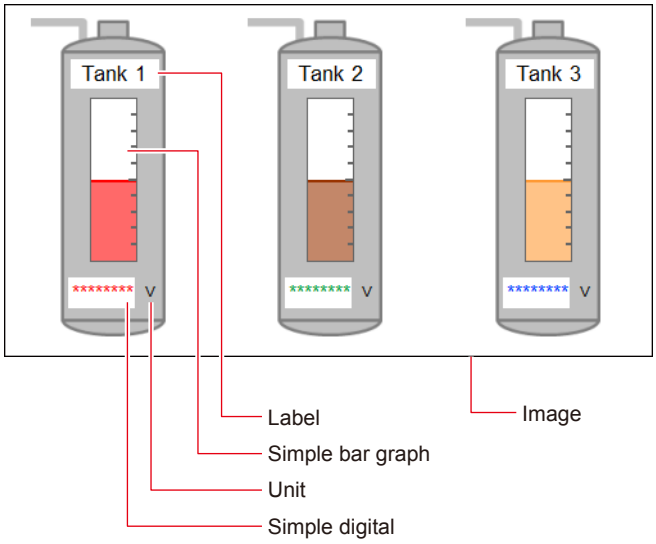
Digital

Channels: Assign measurement channels. The example screen is set up as follows.

	Tank 1	Tank 2	Tank 3
Temp.	0001	0002	0003
Level	0004	0005	0006

To assign a channel to a component, drag a channel from the channel list onto the component, or enter it in the Attributes area. For instructions on assigning channels from the channel list, see appendix 4 in this manual.

Frame: Raised



Label

Text: Tank 1, Tank 2, Tank 3

You can use up to 64 characters (including double-byte characters).
Background color: Selected color
Background color definition: White (R: 255, G: 255, B: 255)

Simple bar graph

Channels: Assign measurement channels to display as follows.

Tank 1	Tank 2	Tank 3
0004	0005	0006

Unit

Channels: Assign measurement channels to display as follows.

Tank 1	Tank 2	Tank 3
0001	0002	0003

Simple digital

Channels: Assign measurement channels to display as follows.

Tank 1	Tank 2	Tank 3
0001	0002	0003

Text color: Channel color

Screen attributes

Screen name: Tank temperature monitor (use up to 16 alphanumeric, single-byte characters)
The screen name appears in the status display area of the GX/GP operation screen. In DAQStudio, it appears on the screen list. The initial value is "CustomDisplay01." You can name the screen before or after creating components. Click in any blank part of the screen builder area to display the screen attributes.

3.4 Saving screens

1. On the menu bar, click **File** > **Save As**.
   The Save As dialog box appears.
2. Select a folder, or click **New folder** to create a folder.
   If you click the New folder button, type a name for the new folder.
3. Click **OK**.
   The screen is saved. All images will be saved to this folder unless you open a file from a different folder or save a file to a different folder.

IMPORTANT

- **You cannot save screens to a network or compressed folder.**
- **Save your image (PNG) files to the same folder as the screen.**

To overwrite an existing screen, click **File** > **Save** on the menu bar, or click the **Save** (💾) button.

When you select a file save folder, all screen information in the screen list area is saved (see figure below). The file names given when saved are as follows.

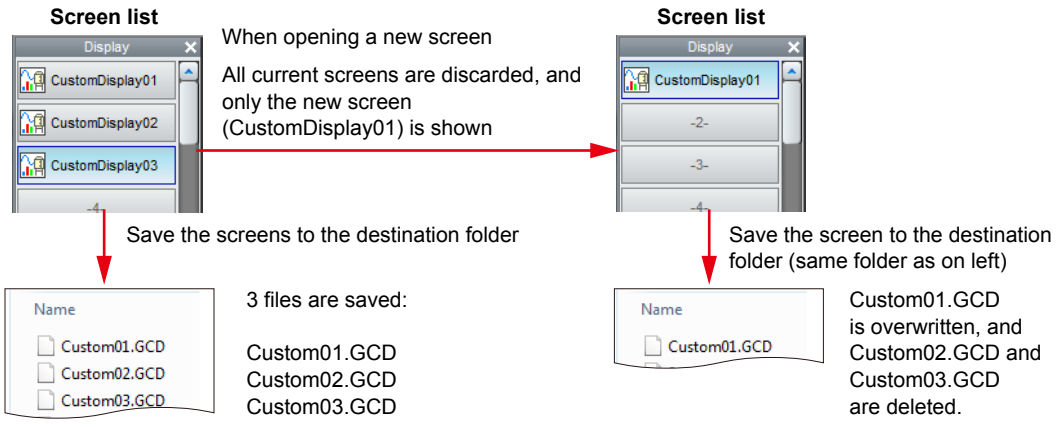
Screen name in the screen list area in the initial state	Name of saved file
CustomDisplay01	Custom01.GCD
-2- (When you add a screen, CustomDisplay02)	Custom02.GCD
-3- (When you add a screen, CustomDisplay03)	Custom03.GCD
↓	↓
-28- (When you add a screen, CustomDisplay28)	Custom28.GCD
-29- (When you add a screen, CustomDisplay29)	Custom29.GCD
-30- (When you add a screen, CustomDisplay30)	Custom30.GCD

You can change the name of a screen in the screen attributes.

IMPORTANT

The name of the saved file is fixed. Do not change the file name. If you change the name of a file, the GX/GP cannot load the screen.

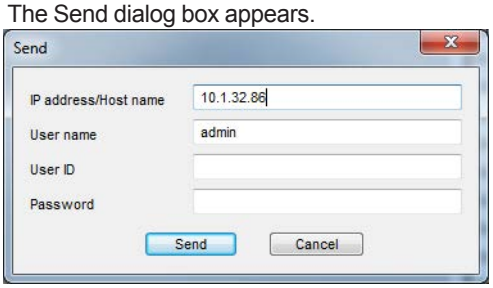
Screen list area and files saved



3.5 Sending screens to the GX/GP

These are the steps for sending screens via Ethernet communications.

1. Open the custom display screen you want to send to the GX/GP.
2. On the menu bar, click **Communication** > **Send**, or click the **Send** ( ) button.
   The Send dialog box appears.



3. Type the IP address or host name, user name, user ID, and password of the GX/GP.
   If a user name is not set on the GX/GP you are sending to, type `admin`.
4. Click the **Send** button.
   A message appears.
5. Click **OK**.
   The currently displayed screen and any image (PNG) files used are sent to the GX/GP.

You can also transfer screens to the GX/GP by using an external memory medium (SD card). For instructions, see appendix 5.

IMPORTANT

Save your image (PNG) files to the same folder as the screens (GDC).

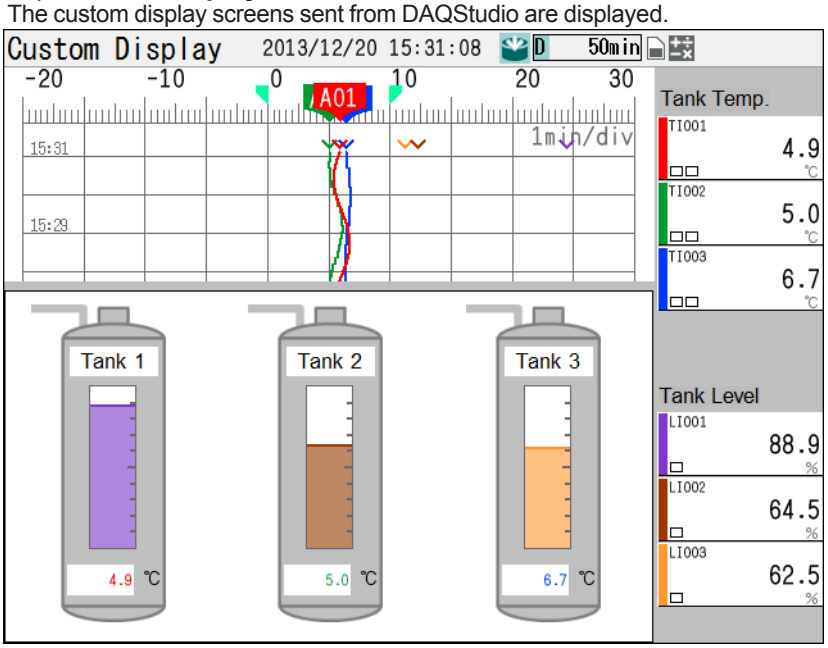
3.6 Exiting DAQStudio

1. On the **File** menu, click **Exit**, or click the **Close** button in the upper right ( ) of the main screen.
   If no screen is currently open, DAQStudio closes. If a screen is open, a message appears asking whether to save the screen.
2. Click **Yes** or **No**.
   DAQStudio closes.

4. Steps on the GX/GP

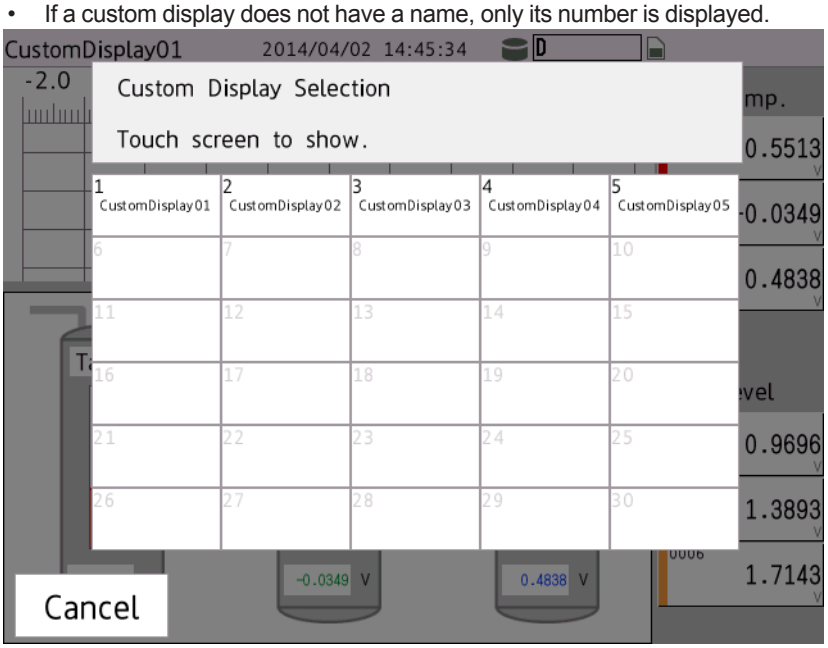
Displaying custom displays

1. Press the **MENU** key.
   The Menu screen appears.
2. Tap the **Change screen** tab.
3. Tap **Custom display**.
   The custom display screens sent from DAQStudio are displayed.



Next, the following custom display selection menu appears. Tap the number of the screen you want to display. That screen appears.

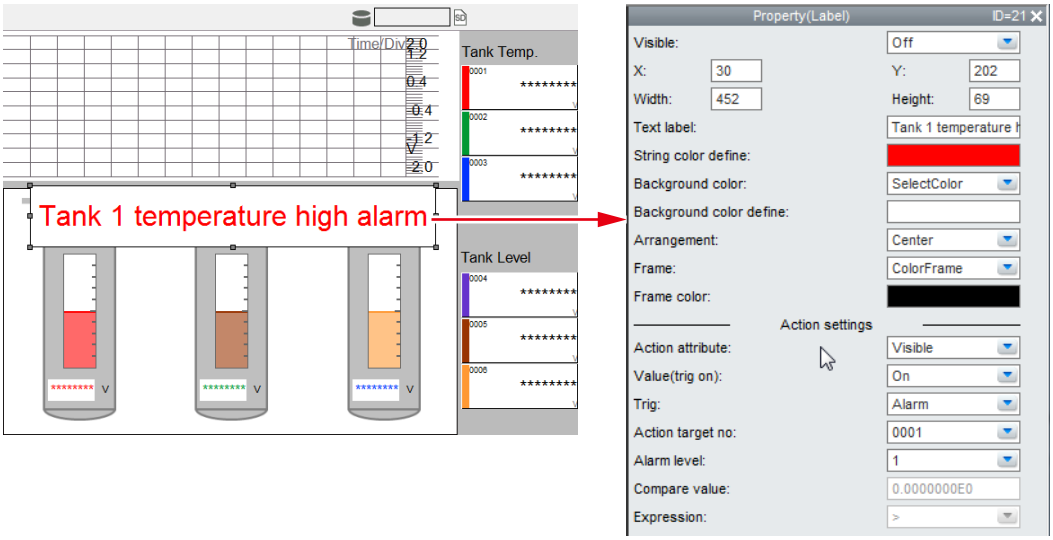
- Numbers of screens that were not sent are unavailable.
- If a custom display does not have a name, only its number is displayed.



Appendix 1 Conditional component display

You can configure components to display differently depending on triggers (alarm, switch, CompValue) in the component attributes of custom display screens.

To display "Tank 1 temperature high alarm" when an alarm occurs



1. Use the **Label** button on the component bar to create the label, "Tank 1 temperature high alarm" (in front of other components).
   Make sure the label does not overlap with the trend display component. If it overlaps with components of other types, the other components cannot be displayed.

2. Select the "Tank 1 temperature high alarm" label, and set its attributes.

Attribute	Setting	Description
Visible:	OFF	Not visible when operation is normal
String:	Tank 1 temperature abnormal	Text to display (up to 64 characters allowed)
Text color definition:	R: 255, G: 0, B: 0	Defines the color of the displayed text
Background color:	Selected color	Specified by the background color definition
Background color definition:	R: 255, G: 255, B: 255	Specifies the color of the background in RGB values
Text alignment:	Center	The text is centered within the label component (select Left, Center, or Right)
Frame:	None	None (initial value) (select None, ColorFrame, Raised, or Sunken)
Frame color:	— — —	Specified as RGB values if ColorFrame is selected
Action settings		
Action attribute:	Visible	Display on alarm occurrence
Value (when trigger target ON):	On	Displayed when an alarm is ON
Trigger:	Alarm	Target of trigger (Select Alarm, Switch, or CompValue)
Action target number:	0001	Alarm target channel
Alarm level:	All	All alarm levels are targeted (select 1, 2, 3, or 4)
CompValue	— — —	Available when the trigger setting is CompValue
Conditional expression	— — —	Available when the trigger setting is CompValue

The above settings cause the "Tank 1 temperature high alarm" label to appear if any of the alarm levels 1 through 4 set for channel 0001 on the GX/GP turn ON.

Appendix 2 Component buttons (GX/GP)

Component type	Name	Button	Description
	Edit		Selects components in the screen builder area.
	Move (the editing area)		When scroll bars appear in the screen builder area, use to drag the display area.
Drawing (general purpose)	Line		Creates a straight line between two arbitrary points.
	Rectangle		Creates a rectangle of opposite angles defined by dragging the pointer.
	Circle		Creates an ellipse defined by a rectangle of opposite angles defined by dragging the pointer.
Channel assignment (general purpose)	Simple digital		Creates a component that displays the digital value of a specified channel.
	Multi display simple digital		Create a simple digital component displaying the digital value of the specified channel that allows the text color and background to be changed according to the instantaneous value or alarm value status.
	Digital		Creates a component like the simple digital, but adds a tag (text/no.), channel number, unit, and alarm indicator.
	Simple bar		Creates a component that displays a bar graph of a specified channel.
	Bar		Creates a component like the simple bar graph, but adds a tag (text/no.), channel number, unit, and digital value.
	Tag No.		Creates a component that displays the tag number of a specified channel.
	Tag string		Creates a component that displays the tag comment of a specified channel.
	Unit		Creates a component that displays the unit of a specified channel.
	Alarm indicator		Creates a component that displays the specified channel and alarm status of a specified level.
	Span		Creates a component that displays the upper and lower limit of span of a specified channel.
Status display (general purpose)	System symbols		Create a component that displays a system symbol. The types of system symbol are: Memory sample  , Alarm  , SD card  , Math  , Key lock  , Email  , Instrument information  , UserLock  , and Program  .
	Group name		Creates a component displaying a group name.
	Batch name		Creates a component displaying the batch name.
	User name		Creates a component displaying the user name.
	Date/time		Creates a component displaying the current date and time.
	Memory sample bar		Creates a component displaying the progress of memory sampling.
	Batch group number		Create a component displaying the MultiBatch batch group number.
	Batch number		Create a component displaying the batch name.
	Lot number		Create a component for displaying and editing a lot number.
	Batch comment		Create a component for displaying and editing a batch comment.

Continued on the next page

Component type	Name	Button	Description
Status display (general purpose)	Text field title		Create a component for displaying the title of a batch text field.
	Text field string		Create a component for displaying and editing the character string of a batch text field.
Label (general purpose)	Label		Creates a label that displays an arbitrary string.
	Multi display label		Create a label component that displays different text, text color, and background color according to the specified channel status.
Components included with the Action function (general purpose)	DO/internal switch		Creates a component that displays the internal switch status, and that can turn internal switches ON and OFF.
	Button operation		Creates a component that displays buttons.
	Digital operation		Creates a component that displays the value of specified communication input data, and that writes values as communication input data.
Static image (general purpose)	Image		Creates a component that displays static images in PNG format.
Summary display	Alarm summary		Creates a component that displays alarm summaries.
	Message summary		Creates a component that displays message summaries.
Trend display	Trend		Creates a component that displays trends from specified groups.
Controller Components	Controller		Create a component for monitoring loop control.
	External controller		Create a component for monitoring and controlling the control operation status using a communication channel.
	Control alarm indicator		Create a component displaying the alarm status of the specified loop.

General purpose: Up to 200 can be created on 1 screen. They are assigned component ID numbers from 0–199 in the order that they are created.
Trend display: Up to 6 can be created on 1 screen. They are assigned component ID numbers from 200–205 in the order that they are created.
Summary display: Up to 4 can be created on 1 screen. They are assigned component ID numbers from 206–209 in the order that they are created.

Appendix 3 List of menus and buttons

File menu

Item	Button	Shortcut key	Explanation
New		Ctrl + N	Discards any currently open screens and creates a new screen.
Open		Ctrl + O	Loads a screen builder file. The folder containing the opened file becomes the new destination folder for saving files.
Save		Ctrl + S	Overwrites the screen builder file in the save destination folder with the current screen.
Save As	—	—	Saves the screen builder file to a selected folder. The selected folder becomes the new destination folder for saving files.
Export	—	—	In the specified folder, a sub folder is created for each screen construction file, and the file is saved (GX/GP's external media format).
Import	—	—	A screen construction file saved in GX/GP's external media format is imported and displayed.
Load Project Information…	—	—	A GA10 project information file (.pjf) is loaded.
Exit	—	—	The application is exited.

Edit menu

Item	Button	Shortcut key	Explanation
Undo		Ctrl + Z	Undoes the previous edit operation.
Redo		Ctrl + Y	Redoes the undone edit operation.
Cut		Ctrl + X	Moves the selection to the clipboard.
Copy		Ctrl + C	Copies the selection to the clipboard.
Paste		Ctrl + V	Copies the contents of the clipboard to the specified location.
Select all	—	Ctrl + A	Selects all components in the screen builder area.
Delete	—	Delete	Deletes the selection.
Add display		—	Adds a new screen to the screen list.

View menu

Item	Button	Shortcut key	Explanation
Channel /Loop	—	—	Displays channel numbers in the channel list.
Tag no.	—	—	Displays tag numbers in the channel list.
Tag comment	—	—	Displays tag comments in the channel list.
Grid	—	—	Displays the grid spacing. 1, 5, 10, 20, or 50 dots
Display List	—	—	Displays the screen list.
Operate area	—	—	Displays the operation area.
Attributes area	—	—	Displays the attributes area.
Part bar	—	—	Displays the component bar.
Arrange bar	—	—	Displays the arrangement bar.
Language	—	—	The display language is switched. The default setting depends on the OS language. English, Japanese, Chinese, French, German, Korean, Russian

Screen menu

Item	Button	Shortcut key	Explanation
DX Advanced R3(3)	—	—	Sets the screen to the DXAdvanced R3 version.
DX Advanced R4.01(0)	—	—	Sets the screen to the DXAdvanced 4.01 version.
DX Advanced R4.11(1)	—	—	Sets the screen to the DXAdvanced 4.11 version.
GX/GP R2(2)	—	—	Sets the screen to the GX/GP R2 version.
GX/GP R3(4)	—	—	Sets the screen to the GX/GP R3 version.
GX/GP R4(6)	—	—	Sets the screen to the GX/GP R4 version.
GA10 R3.01(5)	—	—	Sets the screen to the GA10 R3.01 version.
GA10 R3.02(7)	—	—	Sets the screen to the GA10 R3.02 version.

Arrangement (A) menu

Item	Button	Shortcut key	Explanation
Left (L)		—	Aligns the left edges of selected components with that of the reference component.
Horizontal (Z)		—	Aligns the horizontal centers of selected components with that of the reference component.
Right (R)		—	Aligns the right edges of selected components with that of the reference component.
Top (P)		—	Aligns the top edges of selected components with that of the reference component.
Vertical (Z)		—	Aligns the vertical centers of selected components with that of the reference component.
Bottom (M)		—	Aligns the bottom edges of selected components with that of the reference component.
Space horizontally (N)		—	Spaces selected components equally, with horizontal centers aligned.
Space vertically (V)		—	Spaces selected components equally, with vertical centers aligned.
Height (H)		—	Unifies the heights of selected components with that of the reference component.
Width (W)		—	Unifies the widths of selected components with that of the reference component.
To front (T)		—	Brings the selected component to the front.
To back (B)		—	Sends the selected component to the back.
Forward (O)		—	Moves the selected component forward by 1.
Back (A)		—	Moves the selected component backward by 1.

Communication (C) menu

Item	Button	Shortcut key	Explanation
Receive (R)		—	Receives a screen builder file from the GX/GP.
Send (S)		—	Sends a screen builder file to the GX/GP.

Help (H) menu

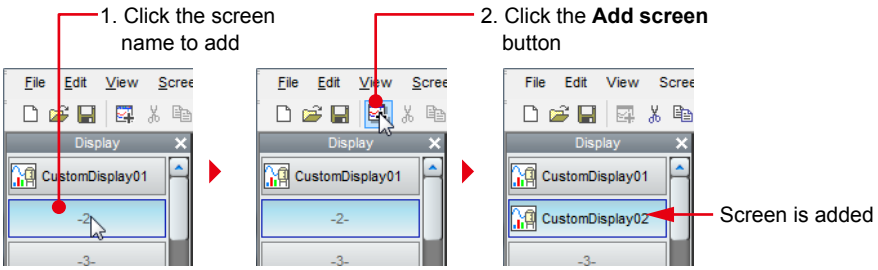
Item	Button	Shortcut key	Explanation
User's manual (U)	—	F1	Displays the user's manual.
About (A)		—	Displays the About dialog box.

Appendix 4 Other operations

Adding and copying screens

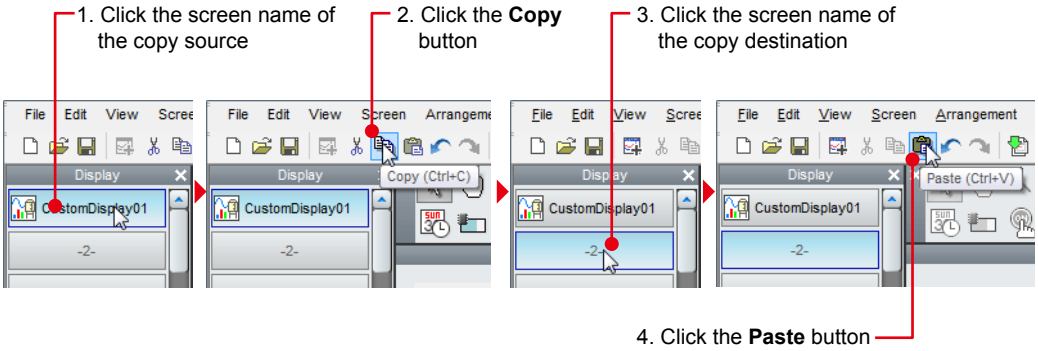
To create multiple custom displays, you can add new screens or copy existing screens. You can add up to 30 custom displays.

Adding screens



When you add a screen, the screen name in the screen list changes, and the screen appears in the GX10/GP10 or GX20/GP20 screen builder area.

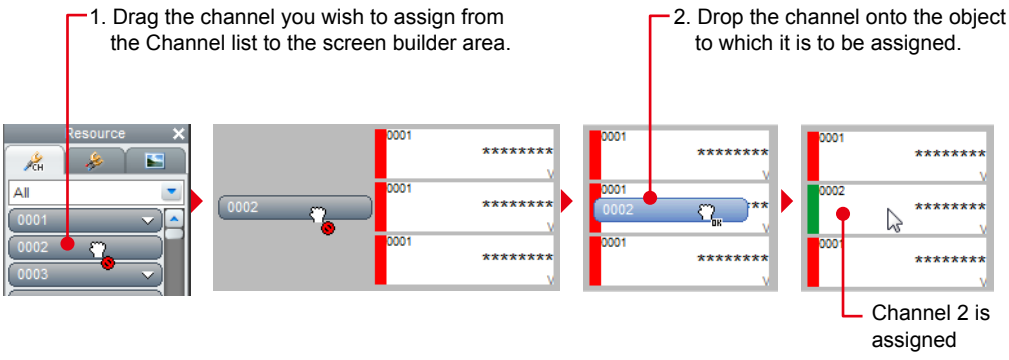
Copying screens



When you copy a screen, it is added with the screen name "Copy" + "name of copied screen."

Assigning channels to components

You can assign channels to components by dragging a channel from the channel list onto the component (channel assignment component).



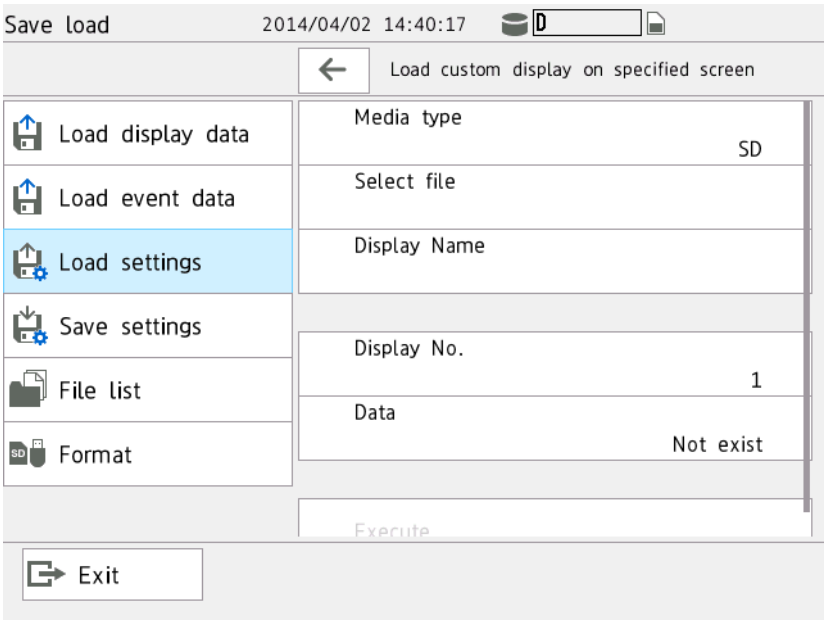
Appendix 5 Loading screens from external memory media

This is the procedure for loading screens saved in external memory media (SD cards) on the GX/GP.

■ Loading specified screens

1. Press the **MENU** key.
   The Menu screen appears.
2. Tap items in the following order.

   Screen change tab > **Save/Load** > **Load settings** > **Custom display** > **Load specified custom display screen**
   The screen below is displayed.

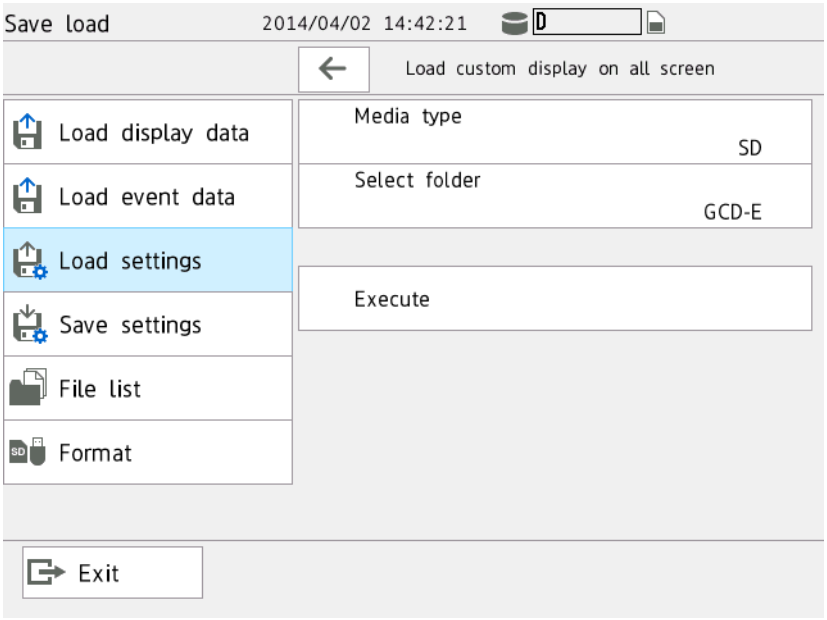


3. Tap **Media type**, and then select a medium (SD).
4. Tap **Select file**, and then select a file (Custom01.GCD through Custom30.GCD).
   The screen name specified in DAQStudio is displayed. If necessary, set the screen number.
5. Tap **Screen number**, and then select a number from 1 to 30.
   Screen number: This is the number assigned to the custom display screen (1–30). This is necessary if you plan on specifying a custom display screen via communication.
   When you set the screen number, Data changes from No to Yes.
6. Tap **Run**.
   The custom display screen is loaded from external memory media into internal memory.

Loading all screens

1. Press the **MENU** key.
   The Menu screen appears.
2. Tap items in the following order.

   Screen change tab > **Save/Load** > **Load settings** > **Custom display** > **Load all custom display screens**
   The screen below is displayed.



3. Tap **Media type**, and then select a medium (SD).
4. Tap **Select folder**, and then select the folder to load.
5. Tap **Run**.
   The custom display screen is loaded from external memory media into internal memory.

Technical Materials Revised Information

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Added the following component icons.
Multi Display Simple Digital, Multi Display Label, Batch Group Number, Batch Number, Lot Number, Batch Comment, Text Field Title, Text Field String, Controller, External Controller, Control Alarm Indicator

■ Author Yokogawa Electric Corporation
■ Issued by Yokogawa Electric Corporation
180-8750 Tokyo, Musashino-shi, Nakamachi 2-9-32

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