# User's Manual

WX11 AddObserver

vigilantplant.



Foreword	Thank you for purchasing the WX11 AddObserver. The AddObserver includes two software applications, AddObserver Builder and AddObserver Panel. This user's manual contains information primarily about the functions and operating procedures of the AddObserver Builder. To ensure proper use of the instrument, please read this manual thoroughly before beginning operation. For operating instructions for AddObserver Panel, see chapter 2 of the "WX83 AddObserver Runtime (IM WX83-01E)." After reading this manual, keep it in a convenient location for quick reference in the event a question arises.
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# **Overview of This Manual**

# **Structure of This Manual**

This manual consists of four chapters and an index as shown below.

Chapter	Title	Description
1	Before Using the Software	Gives an overview of the AddObserver. Also provides a list of PC system requirements and instructions for installing the software.
2	Creating Monitor Screens with AddObserver Builder	Provides instructions for creating original monitor screens using AddObserver Builder.
3	Saving and Opening Monitor Screens	Provides instructions for saving, opening, and checking the data for monitor screens that were created using AddObserver Builder.
4	Responding to Error Messages	Lists all error messages and their corrective actions, and explains how to check the version of AddObserver Builder.
	Index	An alphabetical index.

# Scope of This Manual

This manual explains the basic operations of the software when operated on Windows 2000, Windows XP, and Windows Vista. For specific information on your operating system please refer to the user's guide that came with it.

# **Conventions Used in This Manual**

- Unit
  - K: Denotes 1024. Example: 100 KB
  - M: Denotes 1024 K. Example: 10 MB
  - G: Denotes 1024 M. Example: 2 GB

### Bolded Items

Items set in boldface mainly refer to on-screen interface elements such as menus, commands, dialog boxes, and buttons, or keys on the keyboard.

## Headings Used for Descriptions of Operations

The following headings are used to distinguish procedural instructions from other information given in chapters 1 through 4.

Procedure	This subsection contains the operating procedure used to carry out
	the function described in the current section. All procedures are
	written with inexperienced users in mind; experienced users may
	not need to carry out all the steps.

**Note** Calls attention to information that is important for proper operation of the instrument.

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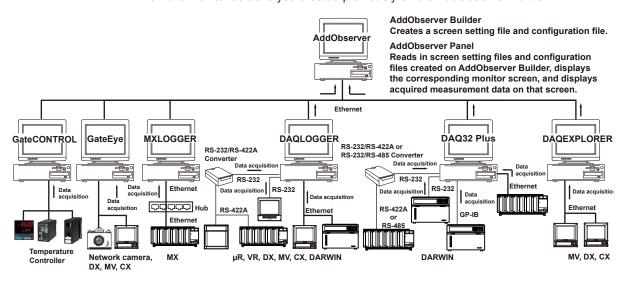
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# 1.1 Overview of the AddObserver

The AddObserver includes two software applications, AddObserver Builder and AddObserver Panel. AddObserver Builder allows you to create your own original monitor screens for viewing measurement data gathered by the DAQ32 Plus, DAQEXPLORER, or DAQLOGGER monitor servers, the package software for YOKOGAWA's data acquisition and recording instruments. You can add "objects" such as meters and trend graphs to your monitor screen, assign channels to them, and even include images of such things as the test facility. AddObserver Panel allows you to connect to the DAQ32 Plus, DAQEXPLORER, DAQLOGGER, or MXLOGGER monitor server, GateEye and view the monitor screens you created previously on the AddObserver Builder.



# AddObserver Builder

The software's main functions are as follows:

- Allows you to create and edit monitor screens to be used for monitoring data on AddObserver Panel.
- Creates the two types of files needed for monitor screens; .gob files for monitor settings, and .cob files for configuration.
- Connects to the DAQ32 Plus, DAQEXPLORER, DAQLOGGER, or MXLOGGER monitor server, GateCONTROL and GateEye via Ethernet, and accesses the server's channel information.
- Allows you to easily assign channels or alarms to monitor screen objects including meters, trend graphs, and signals.

#### **Number of Channels**

The number of channels that AddObserver Builder can assign is up to 1600. To assign the channels, the PC that is running DAQ32 Plus, DAQEXPLORER, DAQLOGGER or MXLOGGER is registered as a host, and the channels on the DAQ32 Plus, DAQEXPLORER, DAQLOGGER, or MXLOGGER monitor servers are assigned to channels 0 to 1599.

Multiple PCs can be registered as hosts.

#### Alarms

Alarms specified on the assigned channels are indicated.

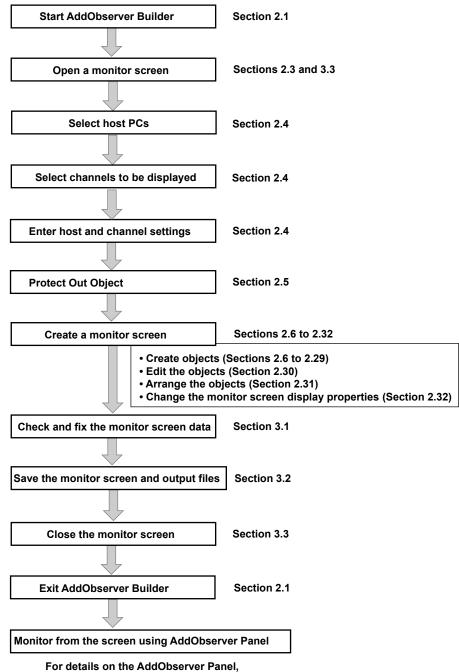
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## **AddObserver Panel**

The operating instructions for this software are available in chapter 1.1 of the "WX83 AddObserver Runtime User's Manual (IM WX83-01E)."

## **The Monitor Screen Creation Process**

The following flow chart outlines the process involved in creating a monitor screen.



see "AddObserver Runtime User's Manual."

# 1.2 PC System Requirements and Supported Monitor Servers

# **PC System Requirements**

### Supported Operating Systems (OS)

Run DAQWORX under any of the following operating systems.

- Windows 2000 Professional SP4
- Windows XP Home Edition SP2, SP3
- Windows XP Professional SP2, SP3 (excluding Windows XP Professional x64 Edition)
- Windows Vista Home Premium, SP1 (excluding the 64-bit edition)
- Windows Vista Business, SP1 (excluding the 64-bit edition)

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

OS Language	Software Language	
Japanese	Japanese	
Other	English	

### PC

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

#### When Using Windows 2000 or Windows XP

Pentium 4, 1.6 GHz or faster 512 MB or more of memory

### When Using Windows Vista

Pentium 4, 3 GHz or faster 2 GB or more of memory

#### Hard Disk

Free disk space: 200 MB or more

#### **CD-ROM Drive**

To be used for installing the software.

#### Mouse

A mouse supported by the OS.

### Monitor

#### When Using Windows 2000 or Windows XP

A monitor supported by the OS of 1024 × 768 dot or higher and 65,536 colors or more. **When Using Windows Vista** 

A video card recommended for use with Vista and a monitor supported by the OS of 1024 × 768 dot or higher and 65,536 colors or more.

### **Communications Interface**

An Ethernet port supported by your operating system. Also, TCP/IP must be installed.

#### Note .

- Do not use the time zone settings in the Windows Autoexec.bat file. If you see lines such as *TZ-GTM0* in your Autoexec.bat file, deactivate them by inserting a REM command in front.
- This software will not support data acquired after the year 2038.

# **Supported Monitor Servers**

AddObserver Panel can connect to the following five monitor servers.

- DAQ32 Plus
- DAQEXPLORER (R2.03 or later)
- DAQLOGGER
- MXLOGGER
- GateCONTROL
- GateEye

### Note\_

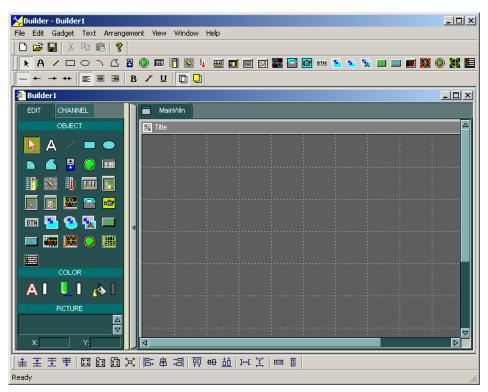
- The AddObserver can connect with up to 16 monitor servers simultaneously.
- To maximize connection speeds, we recommend that you reduce the traffic on the network when using the DAQ32 Plus and DAQLOGGER, and make sure that you are running the latest version of the software.

# 2.1 Starting and Exiting AddObserver Builder

# Starting AddObserver Builder

# Procedure

Choose Start > Programs > YOKOGAWA DAQWORX > AddObserver > Builder. AddObserver Builder starts.



# **Exiting AddObserver Builder**

1. Choose File > Exit.

<mark>汰</mark> Build	er - [l	3uilder 1	]						
획 File	Edit	Shape	Text	Arrangemen	t View				
	ew			C	trl+N				
- c	pen			C	trl+O				
	lose								
S	ave			C	Ctrl+S				
S	ave As								
<b>_</b> C	utput.								
	heck D	ata							
- C	heck 8	Fix Data	э						
1	C:\DA	QOBSER	VER\sa	mple1.gob					
E	xit								
		NAME OF T	N						

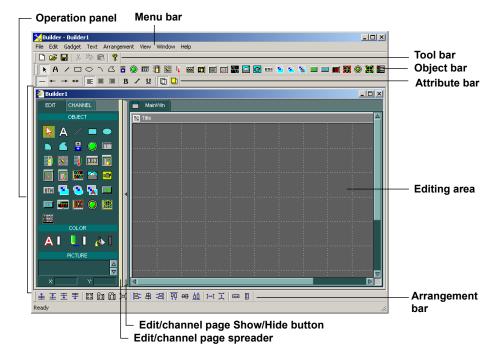
2. If no changes were made during the current session, AddObserver exits.

If changes were made during the current session, an exit confirmation dialog box appears (one for each monitor screen being edited).



Click **Yes** or **No** to save or not save the current monitor screen. Click **Cancel** to return to the application.

# 2.2 The AddObserver Builder Startup Screen



The AddObserver Builder startup screen is shown in the figure below.

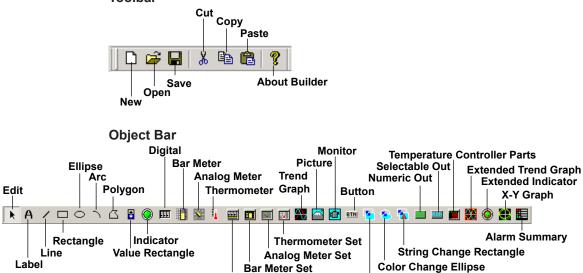
The functions of each item are as follows:

### Menu Bar

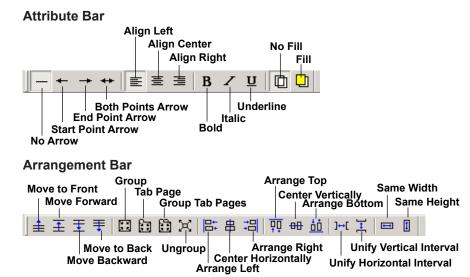
The menu bar contains the following menus: File, Edit, Gadget, Text, Arrangement, View, Window, Help.

**Color Change Rectangle** 





**Digital Meter Set** 



### **Operation Panel**

The operation panel has an Edit page containing tools for creating and editing objects and changing their color, and a Channel page for assigning alarms.

#### Edit Page

Lattinuge	
EDIT CHANNEL	- 1st row starting from the left: Edit, Label, Line, Rectangle, Ellipse
OBJECT	2nd row starting from the left: Arc, Polygon, Value Rectangle <sup>1</sup> Indicator <sup>1</sup> , Digital <sup>1</sup>
🛃 A 🗡 💻 🔵	3rd row starting from the left: Bar Meter <sup>1</sup> , Analog Meter <sup>1</sup> ,
🖿 🧉 🗄 🖬	Thermometer <sup>1</sup> , Digital Meter Set <sup>1</sup> , Bar Meter Set <sup>1</sup>
📲 😒 📲 🗰 📅 🖡	4th row starting from the left: Analog Meter Set <sup>1</sup> ,
	Thermometer Set <sup>1</sup> , Trend Graph <sup>1</sup> ,
💽 🔟 🎆 🚰 🖻	Picture, Monitor
BTN 💁 🕿 🌄 🚥	5th row starting from the left: Button, Color Change Rectangle <sup>1</sup> ,
	Color Change Elipse <sup>1</sup> , String Change
🎟 🄙 騷 🔘 🔛	Rectangle <sup>1</sup> , Numeric Out
	6th row starting from the left: Selectable Out,
COLOR	Temperature Controller Parts,
	Extended Trend Graph <sup>1</sup> ,
🗛 🛯 ) 🔍 🗶 ) 🔥 🖉 )	Extended Indicator <sup>1</sup> , X-Y Graph <sup>1</sup>
PHCIURE	7th: Alarm Summary
	Fill Color <sup>1</sup> Channels can be assigned to this object.
	Line Color (Channel alarm labels can be assigned to indicators.)
	Font Color

#### Channel Page



 Drag a channel to each meter, trend graph, value, or ellipse rectangle you want to assign the channel to.

Drag an alarm label to each indicator you want to assign the alarm to.

To remove the channel or alarm label from an object, drag the CLEAR button from the CLEAR PLATE to the object.

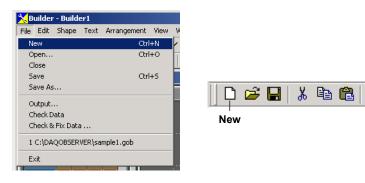
### **Editing Area**

Objects can be created and edited (moved, resized) in the editing area. The monitor screens you create will be displayed almost identically in AddObserver Panel as how they appear in the editing area (there may be certain parts of trend graphs which do not display exactly per the entered attributes).

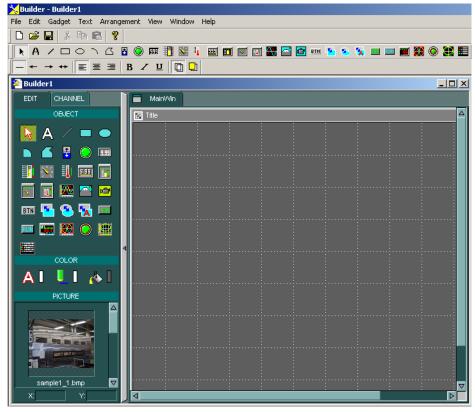
# 2.3 Creating New Monitor Screens

## Procedure

1. Choose File > New, or click the New button on the toolbar.



A new monitor screen appears.



?

# 2.4 Entering Host and Channel Settings

To display monitor screens (panels) using AddObserver Panel, host settings for connecting to the DAQ32 Plus, DAQEXPLORER, DAQLOGGER, or MXLOGGER monitor server, GateCONTROL and GateEye must first be entered in AddObserver Builder.

## Procedure

1. Choose Edit > Configuration.



The Configuration dialog box is displayed.

### HOST tab

onfiguration						_			_		_	_
HOST	CHANN	IEL	OUTPUT CHAN	CON	TROLLER	- V-I	CHANNEL	ALARM SOUN	VD			
lumber of Host	is: 3											
No. Ho	ost Type		Host		Port No.		System No.	Steps			Detail	
0000 1/0 Cha	annel 💌	LocalH	ost		50	299		0	1		Get Info.	
0001 I/O Cha		LocalHost			50	299		D	1		Get Info.	
UUUT I/O Cha	innei 🗖	Lucain	001								0001000	
0001 1/0 Cha 0002 V-Char		LocalH				280		D		Ő I	Get Info.	
								_				
0002 V-Char		LocalH	ost					_				1
			ost					_				
0002 V-Char		LocalH	ost					_				

## **Entering Host Settings**

- 2. Click the HOST tab. The host settings page appears.
- Click the Host Type box next to No. 0000, and set the host type to Input Channel, I/O Channel, or V-Channel. When you connect the GateEye, you must set the V-Channel.



- **4.** Click the **Host** box. Enter the name of the computer<sup>1</sup> that will host the monitor server.
  - 1 The name used to identify the computer on the network. You can also enter the IP address.
- **5.** Click the **Port No.** box. Enter the port number<sup>2</sup> of the monitor server to which you will connect.
  - 2 The default value for the monitor server's port numbers are 50278 for DAQ32 Plus, 50279 for DAQEXPLORER, 50280 for DAQLOGGER, 50284 for MXLOGGER, 50299 for GateCONTROL and 50290 for GateEye. Make sure you have the right port number, especially if it may have been changed earlier. For instructions on how to check the port number, consult the user's manual for the monitor server you are using.

- **6.** If you are using DAQEXPLORER as the monitor server, click the System No. box then enter the system number<sup>1</sup> set on the DAQEXPLORER. This setting is unnecessary if your monitor server is DAQ32 Plus or DAQLOGGER, and the value is fixed at 0 in those cases.
  - 1 This is the same number that DAQ Desktop on the DAQEXPLORER assigns to the DX100, DX200, MV100, or MV200's mounted to it. The default value is 0. A value from 0 to 15 can be entered.
- 7. Click the Steps box and enter the number of steps<sup>2</sup>.
  - 2 This value represents the length of data to be acquired at a time from the host. The default value is 1, and a value from 1 to 120 can be entered. Enter 1 to have the all the data acquired at once, 2 to acquire every other data point, 3 to acquire every third data point, and so on.
- 8. To automatically download host information, click Get Info under Details. When you click Get Info, Builder connects to the specified host<sup>3</sup> and automatically downloads information for the tag and color items on the Channel page (explained on next page). The indicator changes to yellow when information is being downloaded. It changes to blue when the downloading of the information is complete. If you do not click Get Info, you can manually enter settings for the tag and color on the Channel page later on.
  - 3 To download information from the host (monitor server), the monitor server must be started on the host computer. If after clicking Get Info the tag and color settings do not appear or match those set on the host, check whether the monitor server is currently running on the host computer.

Configuration											×
HOST	CHANN	IEL (	OUTPUT CHAN	CON	ROLLER	V-0	CHANNEL	ALAR	VI SOUND		
Number of Hosts:	3										
No. Hos	t Type		Host		Port No		System No.		Steps	Detail	
0000 I/O Chan		LocalHo			50	299		0		Get Info.	
0001 I/O Chan		LocalHo				299		0		Get Info.	
0002 V-Chann	iel 💌	LocalHo	ost		50	280		0		Get Info.	
Add		Delete									
			ок				С	ancel			

Once these settings are downloaded, settings are complete for host number 0000.

**9.** To add a host, click the **Add** button. A new row for host number 0001 appears below the row for host number 0000.

Follow steps 3–8 to enter the host settings for the new host.

To delete a host, select it then click the **Delete** button.

#### Note\_

- The maximum number of servers and hosts that can be set is 16 and 128 respectively.
- The host number is fixed within a range from 0000 to 0127 and cannot be changed.

### **Entering Channel Settings**

10. Click the CHANNEL tab. The channel settings page appears.

nfigura	tion										$\mathbf{X}$	
HO	ST	CHANNE	L	OUTPUT CHAN	CONTROLLER	V-CHANNEL	ALARM S	SOUND				
umber	of Chann	nels: 32										
No.	Host	Channel	Att.	Tag	Tag Comment	Format	Min	Max	Unit	Color		
000	0000	0	ORIG	PV1	01UT750:PV1	C 1	-100.0	100.0				
001	0001	1		SP1	01UT750:SP1	E 1	-100.0	100.0				
002	0001	2	<b>ORIG</b>	C.A.M	01UT750:C.A.M	© 0	0	2				
003	0001	3	ORIG	SPNO	01UT750:SPNO	©_ 0	1	8				
004	0001	4		PIDNO1	01UT750:PIDNO1	<u>e</u> 0	1	8				
005	0001	5	ORIG	R/S	01UT750:R/S	<u>@</u> 0	0	1				
006	0001	6	<b>ORIG</b>	PV2	01UT750:PV2	E 1	-100.0	100.0				
007	0001	7	<b>ORIG</b>	SP2	01UT750:SP2	<u>C</u> 1	-100.0	100.0				
008	0001	8	ORIG	OUT2	01UT750:OUT2	©_ 1	0.0	100.0				
009	0001	9	<b>ORIG</b>	PIDNO2	01UT750:PIDNO2	© 0	1	8				
1010	0001	10		TAG11	01UT750:TAG11	<u>©</u> _ 1	-10.0	10.0				Setting shortcut buttons
	+	<del></del> 	•	· · ·	···	0 <b>1</b>	+ Dente		•	M -		For details, see page 2-1
+	Insert		Delete	e Dei	Unused	Сору	Paste		Default			· · · · · · · · · · · · · · · · · · ·

These are the numbers used for assigning channel or alarm labels to objects such as meters and trend graphs.

- **11.** Click the **Host** field for setting number 0000. Enter the host number (the number from 0 to 0015 in the column under No. in the host page). A value from 0 to 15 can be entered.
- **12.** Click the **Channel**<sup>1</sup> field. Enter the channel on the host you wish to assign something to.
  - 1 A value of 0 corresponds to a different value on each monitor server as follows:

DAQ32 Plus:	No. is 001
DAQEXPLORER:	CH is CH1
DAQLOGGER:	Tag No. is 1
MXLOGGER:	Record is 0001
GateCONTROL:	Tag No. is TAG01
GateEye is set in th	e V-CHANNEL tab. 1 V channel is assigned to a single host.

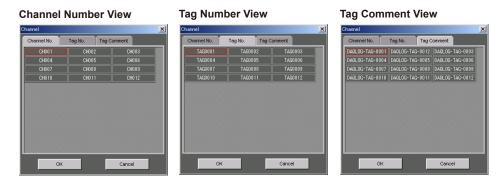
desired channel and then click the OK button.

For example, if you want to enter a setting corresponding to a *No*. setting on the DAQ32

You can click the [ ... ] button to display a table of channels<sup>2</sup> when connecting to the specified host (monitor server). To enter a channel from this table, click the

Plus of 010, you must enter 9 for the channel setting on the AddObserver Builder.

2 You can choose to view the channel numbers, tag numbers, or tag comments in the channel table. The number of channels that can be set is 1600.



- **13.** To manually input the tag and color settings, click **Mathematical Settings** in the Att. column. The arrow changes to **Mathematical Settings**, and the tag and color settings can be entered.
  - Tag and Tag Comment

Enter the tag name or tag comment. Tag numbers of up to eitht characters can be input.

Tag comments of up to 32 characters can be input.

• Format

Enter the format type and decimal place. Click the icon on the left to toggle between s and s. Is a fixed-point representation, and s is a floating-point representation. The value on the right determines how many places past the decimal point are shown. Up to 6 places can be selected.

Minimum/Maximum/Units

Enter the maximum value, minimum value, and units for the span.

Color

Enter the colors for the trend graph and zone bar.

## Note\_

Be aware that If you switch back to after entering user settings, all previously entered settings will be lost.

# Adding a Channel

14. Click the Insert button. A new channel is added to the bottom of the list.

## **Deleting a Channel**

14. Select the channel you wish to delete, and click the Delete button.

## **Deleting Unused Channels**

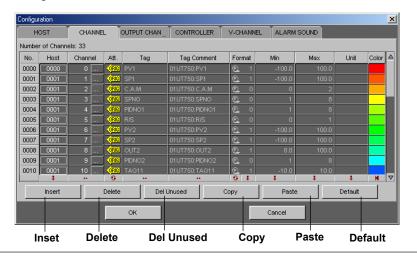
**14.** Select a range of channels. Click the **Del Unused** button. All unused channels in the selected range will be deleted.

# **Copying a Channel**

**14.** Select the channel or channels you wish to copy and click the **Copy** button. Then select the channel onto which you wish to paste the copied channel, and click the Paste button. The setting information from the copied channel appears in the selected channel.

## Loading the Default Values

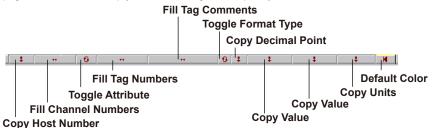
14. Select the range of channels into which you wish to load the default values. Click the **Default** button. The settings for all channels in the selected range are changed to their default values.



#### Note\_

#### Setting Shortcut Buttons

The gray setting shortcut buttons are located just under the last channel row on the channel page. These buttons help you enter settings more quickly.



#### • The Copy Host Number Button

Copies the first host number in the selected range to the rest of the channels in the selected range. Select the range you want to copy from and to, and click the **Copy Host Number** button.

The Fill Channel Numbers Button

Takes the channel number from the first channel in the selected range, and fills each remaining channel in the range with a channel number one higher than the previous channel.

Select the range of channels to fill and click the **Fill Channel Numbers** button. The channel numbers are filled incrementally starting with the first channel in the selected range.

The Toggle Attribute Button

Toggles the icon for all selected channels between ORIG and USER. Select the range of channels to change and click the **Toggle Attribute** button. The icons of all selected channels change from ORIG to USER or vice versa.

#### • The Fill Tag Numbers Button

Takes the tag number from the first channel in the selected range, and fills each remaining channel in the range with a tag number one higher than in the previous channel. Select the range of channels to fill and click the **Fill Tag Numbers** button. The tag numbers are filled incrementally starting with the first channel in the selected range.

The Fill Tag Comments Button

Takes the tag comment from the first channel in the selected range, and fills each remaining channel in the range with a tag comment one higher than the previous channel. Select the range of channels to fill and click the **Fill Tag Comments** button. The tag comments are filled incrementally starting with the first channel in the selected range.

**The Toggle Format Type Button** Toggles the icon for all selected channels between F and E. Select the range of channels to change and click the **Toggle Format Type** button. The icons of all selected channels change from F to E or vice versa.

#### The Copy Decimal Point Button

Copies the number of decimal places specified in the first channel in the selected range to the rest of the channels in the selected range. Select the range you want to copy from and to, and click the **Copy Decimal Point** button. The number of decimal places is copied to the selected range.

#### The Copy Value Buttons

Copies the value from the first channel in the selected range to the rest of the channels in the selected range. Select the range you want to copy to and from, and click one of the **Copy Value** buttons. The value is copied to the selected range.

#### The Copy Units Button

Copies the value from the first channel in the selected range to the rest of the channels in the selected range. Select the range you want to copy from and to, and click the **Copy Units** button. The units are copied to the entire range.

The Default Color Button

Loads the default color values for all channels in the selected range. Select the desired range and click the **Default Color** button. The default color values for all channels in the selected range are loaded.

## **Output Channel Detail Settings**

**10.** Click the Output Channel tab. The output channel setup page appears. An output channel can only be added when the host type in the host detail settings is I/O Channel.

**OUTPUT CHANNEL tab** 

HC	DST	CHANNE	EL 🛛	OUTPUT CHAN	CONTROLLER	V-CHANNEL	ALARM SOUNE		
lumber	of Output	Channels : ·	14						
No.	Host	Channel	Att.	Tag	Tag Comment	Decimal Point	Min	Max	Unit 4
0000	0000	0		SP1	01UT750:SP1	1	-100.0	100.0	
0001	0001	0		SP1	01UT750:SP1	1	-100.0	100.0	
0002	0000	0	ORIG	SP1	01UT750:SP1	1	-100.0	100.0	
0003	0000	0		SP1	01UT750:SP1	1	-100.0	100.0	
0004	0000	0		SP1	01UT750:SP1	1	-100.0	100.0	
0005	0000	0			01UT750:SP1	1	-100.0	100.0	
0006	0000	0	ORIG	SP1	01UT750:SP1	1	-100.0	100.0	
0007	0000	0	ORIG	SP1	01UT750:SP1	1	-100.0	100.0	
8000	0000	0		SP1	01UT750:SP1	1	-100.0	100.0	
0009	0000	0		SP1	01UT750:SP1	1	-100.0	100.0	
0010	0000	0			01UT750:SP1	1	-100.0	100.0	
	4	**	0			<b>+</b>	<b>‡</b>	+	* T
	Insert		Delete	e Dell	Unused	Copy	Paste	Defa	ult

**11.** Output channels can only be assigned to output channel objects. Specify and register the host names and channel numbers. Set the tag, tag comment, decimal place (format), output maximum, output minimum, and units for each channel.

The maximum number of hosts that can be set is 1600.

For details on settings, see produres 12 through 14 under "Channel Detail Settings."

## **Controller Detail Settings**

10. Click the Controller tab. The controller setup page appears. A controller can only be added when the host type in the detail settings is I/O Channel, and the I/O Channel host information is successfully acquired.

			CONTRO	OLLER tal	c		
Configuration						2	<
HOST	CHANNEL	OUTPUT CHAN	CONTROLLER	V-CHANNEL	ALARM SOUND		
Number of Control	lers : 3						
No. Host	Tag	Tag Comment					
000 0001							
001 0001			_				
002 0001							
<b>—</b>	••	••					
Insert	Del	ete Del U	nused				L.
		ок			Cancel		

If controller related channels or output channels are deleted or changed through channel tags or output channel tags, the controllers are also deleted at the same time.

The maximum number of controllers that can be registered is 128.

### **Entering V-CHANNEL Detail Settings**

10. Click the V-CHANNEL tab. The V-CHANNEL setting page is displayed.

V-CHANNEL tab

**11.** To manually enter a tag or tag comment, click the Detail box. the number of the tag and tag comment.

Note	
Please note that after switching to use and entering the tag and tag comment, if you switch	
back to one of the section of the previous setting.	

Go to step 15.

## Selecting the Alarms That Will Sound

15. Click the ALARM SOUND tab. The ALARM SOUND setting page appears.

Configura	tion						×
HOS	т сна	NNEL V	V-CHANNEL	ALARM SOUND			
🔲 Alarm	Sound						
No.	Tag	Tag Com	nment L1	L2 L3 L4 🛆			
CH0000	tag0000	comment000	00 🔘				
CH0001	tag0001	comment000	01 🔶				
CH0002	tag0002	comment000	32				
CH0003	tag0003	comment000	33 🔵				
CH0004	tag0004	comment000	04				
CH0005	tag0005	comment000	05 🔵				
CH0006	tag0006	comment000	06				
CH0007	tag0007	comment000	07 🔘				
CH0008	tag0008	comment000	08 🔘				
CH0009	tag0009	comment000	09 🔘	000			
CH0010	tag0010	comment001	10	000			
CH0011	tag0011	comment001	11 🕘				
CH0012	tac/0012	comment001	12	8 8 8 7			
			ок		Ca	ncel	

ALARM SOUND tab Sound an alarm when a red indication alarm occurs

16. Select the alarm that will sound.

17. Click OK to close the Configuration dialog box.

#### Note \_

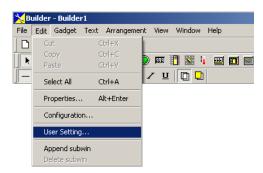
Be aware that if you click Cancel instead of OK, setting changes will not be saved.

# 2.5 Protection for Out Object

With AddObserver, people who can use the Builder software are given the same privileges as the administrator. When the user name, password, and protection level are entered, only the out objects that are at or below the protection level can be output.

## Procedure

1. From the Edit menu, choose User Settings.



The user settings dialog box is displayed.

Users				2					
Number	lumber of Users : 3								
No.	User	r Name	Protect Level	Password					
0	User0		1 🗖	*****					
1	User1		2 🔽	*****					
2	User2		3 🗖	*****					
	Add	Delete							
	ок	Cancel							

2. Input the user name and password and select a protection level.

Up to sixteen alphanumeric characters can be input for the user name and password.

A protection level of 1, 2, or 3 can be selected. The larger the protection level number the higher the level of protection, and only the out objects at or below that protection level can be output.

The number of users that can be set is sixteen.

The same name cannot be assigned to more than one user.

You must enter a user name.

# 2.6 Creating Labels

You can enter a character string of your choice to create a label. You can also select the size, style, color, and fill for the text.

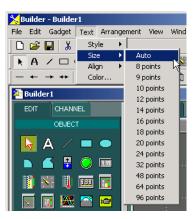
## Procedure

### **Creating a New Label**

- **1.** Click the **Label** icon on the EDIT page of the operation panel, or click the **Label** button in the object bar.
- Choose Text > Style, then Bold, Italic, or Underline. You can also click the Bold, Italic, or Underline buttons on the attribute bar. You can also select, Bold and Italic at the same time.



3. Choose Text > Size, then select from Auto through 96 points.



 Choose Text > Align, then select Left, Center, or Right. You can also click the Left, Center, or Right buttons on the attribute bar.

<mark>X</mark> Bu	🔀 Builder - Builder 1								
File	Edit	Shape	Text	Arra	nge	ment	View	Wi	
	i B	<b>B</b>   %	Sty	/le	۲	K	Α	/	
	-		Siz	е	۲	Ľ		- 10	
	-		Align 🕨			🗸 Lef	t	Щ	
🗿 В	uilde	er1	Color			Center			
E	DIT	CHAN	NEL			Rig	ht		

5. Choose Text > Color.

🔀 Builder - Builder1						
File Edit Shape	Text	Arrangeme				
🗋 🖻 🔚 🕺	Sty					
1 + + +	Siz	e ≯¦"i				
	Aliç	յո ⊧[!				
🔁 Builder 1	Co	lor				

The color settings dialog box is displayed. For details on the color settings dialog box, see "Choosing a Color from the Color Settings Dialog Box" in section 2.30.

6. To apply the fill, choose Gadget > Fill Mode > Selected Color, or click the Fill button on the attribute bar.

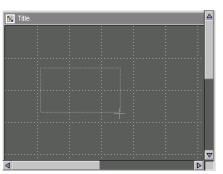
<mark>%</mark> Builder	- Builder1	
File Edit	Shape Text	Arrangement View Window
	Line Width Arrow Line Color.	
EDIT	Fill Mode Fill Color	Vone

Choose Gadget > Fill Color.

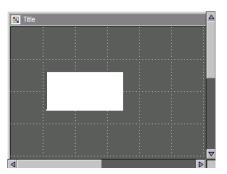
<mark>X</mark> B	🔀 Builder - Builder 1							
File	Edit	Shape	Text	Arra	ingi			
	🗃	Line	Width	•	?			
		Arro	•	F				
	-	Line	Color		Ē			
	Builde	Fill M	Iode	•				
	DIT							
	:on	Fill C	olor					

The color settings dialog box is displayed. For details on the color settings dialog box, see "Choosing a Color from the Color Settings Dialog Box" in section 2.30.

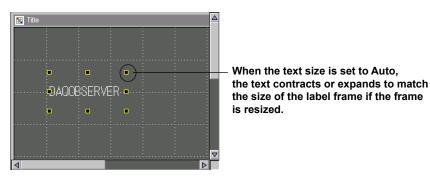
- 7. Move the mouse to a location in the editing area where you want to place the upper-left corner of the label.
- 8. Drag the cursor to set the location of the opposite corner of the label.



**9.** The cursor blinks inside the new label, allowing you to enter a character string. The character string you enter will appear within the frame of the label.



**10.** Press the **ENTER** key on the keyboard to confirm the entered character string and complete the label.

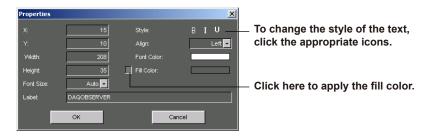


### **Editing from the Properties Dialog Box**

- **1.** Click the **Edit** icon in the OBJECT group of the EDIT page of the operation panel, or click the **Edit** button in the object bar.
- 2. Select the label you wish to edit in the editing area.
- 3. Choose Edit > Properties or right-click and select Properties.

<mark>X</mark> Bi	uilder	- Builde	r1			
File	Edit	Gadget	Text	Arrangemer		
		ıt		itrl+X		
	Co	ру	0	itrl+C		
~	Pa	iste	0	itrl+∀		
			Ctrl+A			
P	Pr	operties	. Alt+Enter			
	Co	onfiguratio	on			
	Us	ser Setting	j			
	Ap	pend sub	win			
	De	elete subv	ภ่าก			

The label properties dialog box is displayed.



- 4. Move the cursor to the desired item and click to enter a new value.
- 5. Click OK.

#### Note -

If a label overlaps with a meter, AddObserver Panel will display the label hidden beneath the meter. Therefore you should not allow labels and meters to overlap.

2

# 2.7 Creating Lines

You can create a line of any length and direction. You can also specify the line's width, color, and whether arrowheads are attached to the ends.

Procedure

#### **Creating a New Line**

- **1.** Click the **Line** icon on the EDIT page of the operation panel, or click the **Line** button in the object bar.
- 2. Choose Gadget > Line Width, then select from 0 dots through 5 dots.

🔀 Ві	🔀 Builder - Builder 1							
File	Edit	Shape	Text	Arra	angement	View		
	🗃 l	Line	Width	►	0 dots			
	-	Arro	W	►	🖌 1 dot	U		
	_	Line Color			2 dots	브		
2	Builde	Eill M	Fill Mode		3 dots			
	DIT	Fill Color			4 dots			
		T III C			5 dots			

 Choose Gadget > Arrow, then choose None, Start, End, or Both. You can also click the No Arrow, Start Point Arrow, End Point Arrow, or Both Points Arrow buttons on the attribute bar.

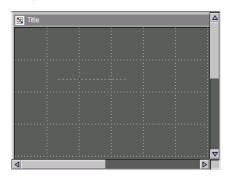
<mark>X</mark> B	🔧 Builder - Builder1							
File	Edit	Shape	Shape Text Arrangement					
D	🗃	Line	Width	•	8	Ą		
		Arrow		•	🗸 None			
			Line Color		Start			
	Builde	Fill Mode			End			
	EDIT		iolor		Both			
Ш '		FILCO				le		

4. Choose Gadget > Line Color.

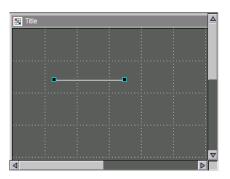
The color settings dialog box is displayed. For details on the color settings dialog box, see "Choosing a Color from the Color Settings Dialog Box" in section 2.30.



- 5. Move the mouse to a location in the editing area where you want to start the line.
- 6. Drag the mouse to the end point of the line.



A line is created between the start and end points you specified.



# Editing from the Properties Dialog Box

- **1.** Click the **Edit** icon in the OBJECT group of the EDIT page of the operation panel, or click the **Edit** button in the object bar.
- 2. Select the line you wish to edit in the editing area.
- 3. Choose Edit > Properties or right-click and select Properties.

<mark>X</mark> B	uilder	- Builde	r1			
File	Edit	Gadget	Text	Arrangemer		
D	C	ıt	C	itrl+X		
Í	Co	ру	0	itrl+C		
<u> </u>	Pa	Paste		ltrl+∀		
	Se	elect All	C	trl+A		
				11.5		
	Pr	operties	. P	lt+Enter		
	Co	Configuration				
	User Setting					
	Ap	Append subwin				
	De	elete subv	ภ่าก			

The line properties dialog box is displayed.

Properties			×
Start X:	20	Line Width:	1 💌
Start Y:	95	Line Color:	
End X:	75	Arrow:	None 🔻
End Y:	125		
	ок		Cancel

4. Move the cursor to the desired item and click to enter a new value.

5. Click OK.

# 2.8 Creating Rectangles

You can create a rectangle of any shape and size. You can also specify the rectangle's line width, line color, and fill.

Procedure

### **Creating a New Rectangle**

- **1.** Click the **Rectangle** icon on the EDIT page of the operation panel, or click the **Rectangle** button in the object bar.
- 2. Choose Gadget > Line Width, then select from 0 dots through 5 dots.

<mark>%</mark> B	🔀 Builder - Builder 1							
File	Edit	Shape	Text	Arr	angement	View		
D	🗃	Line	Width	►	0 dots			
		Arro	W	•	🖌 1 dot			
╞			Line Color		2 dots	브		
	Builde	Fill M	lode	•	3 dots			
	DIT		olor		4 dots			
		1	0101111		5 dots	-		

3. Choose Gadget > Line Color.

<mark>%</mark> Builder - Builder 1						
File	Edit	Shape	Text	Arra	ing	
	<b>2</b>	Line Width 🔹 🕨			9	
		Arro	W	•	E	
	•	Line	Color		E	
	uilde DIT	Fill Mode → Fill Color				

The color settings dialog box is displayed. For details on the color settings dialog box, see "Choosing a Color from the Color Settings Dialog Box" in section 2.30.

4. To apply the fill, choose Gadget > Fill Mode > Selected Color, or click the Fill button on the attribute bar.

<mark>汰</mark> Builder	- Builder1	
File Edit	Shape Text	Arrangement View Windo
<b>⊡</b> ⊯    -+	Line Width Arrow Line Color	
Builde EDIT	Fill Mode Fill Color	V None

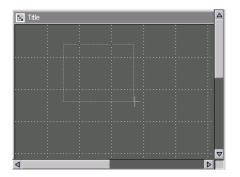
Choose	Gadget	> Fill	Color.
--------	--------	--------	--------

🔀 Builder - Builder 1					
File Edit	Shape Text Arra		ingi		
0 🗃	Line Width 🔸 🧖			?	
	Arrow 🕨				
	2010	Color	.	Ē	
🔊 Builde	Fill Mode				
EDIT	Fill Color				

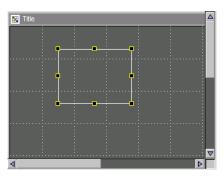
The color settings dialog box is displayed. For details on the color settings dialog box, see "Choosing a Color from the Color Settings Dialog Box" in section 2.30.

**5.** Move the mouse to a location in the editing area where you want to place the rectangle.

6. Drag the cursor to the location of the opposite corner of the rectangle.



A rectangle is created using the two corner points specified in steps 5 and 6.

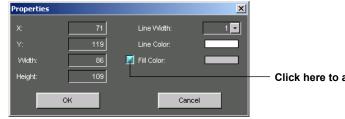


### **Editing from the Properties Dialog Box**

- **1.** Click the **Edit** icon in the OBJECT group of the EDIT page of the operation panel, or click the **Edit** button in the object bar.
- 2. Select the rectangle you wish to edit in the editing area.
- 3. Choose Edit > Properties.



The rectangle properties dialog box is displayed.



Click here to apply the fill color.

- 4. Move the cursor to the desired item and click to enter a new value.
- 5. Click OK.

# 2.9 Creating Ellipses

You can create an ellipse of any shape and size. You can also specify the ellipse's line width, line color, and fill.

Procedure

## **Creating a New Ellipse**

- Click the Ellipse icon on the EDIT page of the operation panel, or click the Ellipse button in the object bar.
- 2. Choose Gadget > Line Width, then select from 0 dots through 5 dots.

<mark>X</mark> B	🔀 Builder - Builder 1							
File	Edit	Shape	Text	Arr	angement	View		
	1 🗃	Line Width			0 dots			
		Arro	W	►	🖌 1 dot	U		
┢	-	Line Color			2 dots	Ľ		
2	Builde	Fill M	lode	•	3 dots			
	EDIT	Fill Color		,	4 dots			
					5 dots	-		

3. Choose Gadget > Line Color.

🔀 Builder - Builder1						
File E	Edit	Shape	Text	Arra	ing	
	<u> </u>	Line Width 🔹 🕨			8	
		Arrow		•	E	
	•	Line	Color		E	
EC	uilde NT	Fill Mode → Fill Color				

The color settings dialog box is displayed. For details on the color settings dialog box, see "Choosing a Color from the Color Settings Dialog Box" in section 2.30.

4. To apply the fill, choose Gadget > Fill Mode > Selected Color, or click the Fill button on the attribute bar.

<mark>X</mark> Builder	- Builde	er1	
File Edit	Shape	Text	Arrangement View Window
	Arro	Width w Color	
EDIT	Fill M	ode olor	Vone

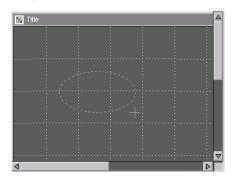
Choose	Gadget :	> Fill	Color.
--------	----------	--------	--------

<mark>%</mark> Builder - Builder 1					
File Edit	Shape	Shape Text Arrar			
0 🗃 🛙	Line Width 🔹 🕨			P	
	Arrow		•		
	Line				
🄊 Builde	Eill Mode ►				
EDIT	Fill Color				

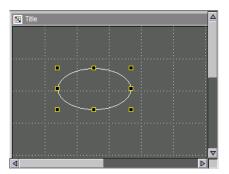
The color settings dialog box is displayed. For details on the color settings dialog box, see "Choosing a Color from the Color Settings Dialog Box" in section 2.30.

**5.** Move the mouse to a location in the editing area where you want to place the ellipse.

6. Drag the cursor to the location of the opposite end of the ellipse.



An ellipse is created using a frame based on the two corner points specified in steps 5 and 6.



### **Editing from the Properties Dialog Box**

- **1.** Click the **Edit** icon in the OBJECT group of the EDIT page of the operation panel, or click the **Edit** button in the object bar.
- 2. Select the ellipse you wish to edit in the editing area.
- 3. Choose Edit > Properties or right-click and select Properties.



The ellipse properties dialog box is displayed.



Click here to apply the fill color.

- 4. Move the cursor to the desired item and click to enter a new value.
- 5. Click OK.

# 2.10 Creating Arcs

You can create an arc of any shape or size. You can also specify the arc's line width, starting angle, ending angle, line color, and fill.

Procedure

#### **Creating a New Arc**

- 1. Click the Arc icon on the EDIT page of the operation panel, or click the Arc button in the object bar.
- 2. Choose Gadget > Line Width, then select from 0 dots through 5 dots.

<mark>%</mark> Ві	uilder	- Build	er1			
File	Edit	Shape	Text	Arra	angement	View
	🗃 l	Line	Width	►	0 dots	
		Arro	W	•	🖌 1 dot	U
	_	Line	Color		2 dots	브
	Builde	Fill M	lode	•	3 dots	
	DIT		olor	ŕ	4 dots	
۲ II		1.111	0101111	_	5 dots	

3. Choose Gadget > Line Color.

🔀 Builder - Builder 1						
File E	dit	Shape	Text	Arra	ing	
	<u> 3</u>	Line	•	9		
			Arrow		E	
		Line		E		
EDI EDI	_	Fill IV	lode olor	•		

The color settings dialog box is displayed. For details on the color settings dialog box, see "Choosing a Color from the Color Settings Dialog Box" in section 2.30.

4. To apply the fill, choose Gadget > Fill Mode > Selected Color, or click the Fill button on the attribute bar.

<mark>X</mark> Builder	- Builde	er1	
File Edit	Shape	Text	Arrangement View Window
	Arro	Width w Color	
EDIT	Fill M	ode olor	✓ None Selected Color

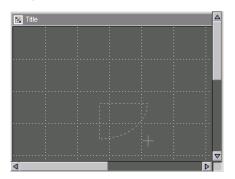
Choose	Gadge	et >	Fill	Color	
--------	-------	------	------	-------	--

🔀 Builder - Builder 1					
File Edit	Shape	Text	Arra	ingi	
0 🗃 1	Line	Width	•	?	
	Arrow		•	F	
	2010	Color	•	Ē	
획 Builde	Fill M	lode	•		
EDIT	Fill Color				
				_	

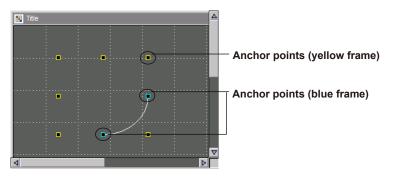
The color settings dialog box is displayed. For details on the color settings dialog box, see "Choosing a Color from the Color Settings Dialog Box" in section 2.30.

5. Move the mouse to a location in the editing area where you want to place the arc.

6. Drag the cursor to the location of the opposite end of the arc.



An arc is created using a frame based on the two corner points specified in steps 5 and 6.



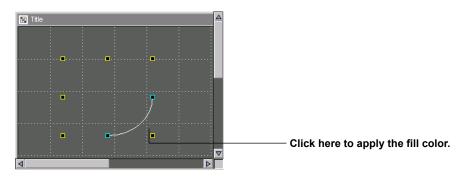
- **7.** To change the arc's length, click the arc to select it (usually items are selected as soon as they are created).
- 8. Move the cursor over one of the blue anchor points at the start or end of the arc.
- **9.** Drag the anchor point to a new position (you may only move the anchor point to a new position along the arc itself).
- **10.** The other anchor point can also be moved in the same manner.

# Editing from the Properties Dialog Box

- **1.** Click the **Edit** icon in the OBJECT group of the EDIT page of the operation panel, or click the **Edit** button in the object bar.
- 2. Select the arc you wish to edit in the editing area.
- **3.** Choose **Edit** > **Properties** or right-click and select Properties.

🔀 Builder - Builder 1						
File	Edit	Gadget	Text	Arrangemer		
	CL	ıt	C	itrl+X		
tr	Co	ру	C	itrl+C		
×	Pa	iste	0	itrl+V		
	Select All		Ctrl+A			
	Pr	operties	. A	lt+Enter		
	Configuration					
	User Setting					
	Append subwin					
	De	elete subv	ภ่า			

The arc properties dialog box is displayed.



- 4. Move the cursor to the desired item and click to enter a new value.
- 5. Click OK.

## 2.11 Creating Polygons

You can create a polygon of any shape and size. You can also specify the polygon's line width, line color, and fill.

Procedure

#### Creating a New Polygon

- Click the Polygon icon on the EDIT page of the operation panel, or click the Polygon button in the object bar.
- 2. Choose Gadget > Line Width, then select from 0 dots through 5 dots.

🔀 Builder - Builder 1							
File	Edit	Shape	Text	Arr	angement	View	
D	🗃 l	Line	Width	►	0 dots		
		Arro	W	•	🖌 1 dot	U	
	_	Line	Color		2 dots	Ľ	
20	Builde	Fill M	Ioda		3 dots		
F	DIT		olor		4 dots		
		1.111	0101111		5 dots	-	

3. Choose Gadget > Line Color.



The color settings dialog box is displayed. For details on the color settings dialog box, see "Choosing a Color from the Color Settings Dialog Box" in section 2.30.

4. To apply the fill, choose Gadget > Fill Mode > Selected Color, or click the Fill button on the attribute bar.

<mark>X</mark> Builder	- Builder 1
File Edit	Shape Text Arrangement View Windo
	Arrow Line Color
Builde EDIT	Fill Mode         Vone           Fill Color         Selected Color

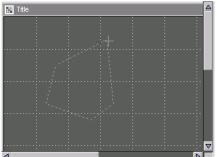
Choose Gadget > Fill Color.

🔀 Builder - Builder 1						
File Edit	Shape	Text	Arrang			
	Line Arro Line	• 😵				
EDIT	EIII M	lode olor	•			

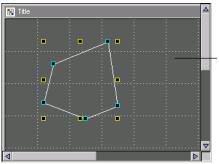
The color settings dialog box is displayed. For details on the color settings dialog box, see "Choosing a Color from the Color Settings Dialog Box" in section 2.30.

- **5.** Move the mouse to a location in the editing area where you want to place the polygon.
- 6. Click the left mouse button.
- 7. Move the cursor to the next vertex on the polygon and left-click again.

8. Repeat step 7 until all sides of the polygon are completed.



9. To finish the polygon, double click the mouse.



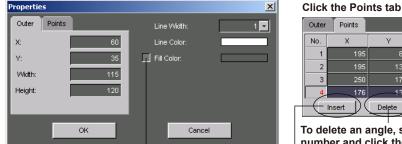
The created polygon and its anchor points are displayed. You can reshape the polygon by dragging its (blue) anchor points.

### Editing from the Properties Dialog Box

- 1. Click the Edit icon in the OBJECT group of the EDIT page of the operation panel, or click the Edit button in the object bar.
- 2. Select the polygon you wish to edit in the editing area.
- 3. Choose Edit > Properties or right-click and select Properties.



The polygon properties dialog box is displayed.





To delete an angle, select the angle's number and click the Delete button. To add an angle, select the angle whose number is

176

130

Delete

Points

one higher than the one you want to add. Click the Insert button, then input the X and Y coordinates of the new vertex.

Insert

- Move the cursor to the desired item and click to enter a new value. 4.
- 5. Click OK.

2

**Creating Monitor Screens with AddObserver Builder** 

## 2.12 Creating Value Rectangles

You can create a value rectangle for any channel. You can also specify the value rectangle's line width and line color.

## Procedure

#### **Creating a New Value Rectangle**

- **1.** Click the **Value Rectangle** icon in the OBJECT group of the EDIT page of the operation panel, or click the **Value Rectangle** button in the object bar.
- 2. Choose Gadget > Line Width, then select from 0 dots through 5 dots.

🔀 Builder - Builder 1								
File	Edit	Shape	Text	Arr	angement	View		
	🗃	Line	Width	►	0 dots			
	-	Arro	w	•	🖌 1 dot	U		
	-	Line Color			2 dots			
2	Builde	Fill M	lode	•	3 dots			
Ē	DIT		olor		4 dots			
			0101111		5 dots	-		

3. Choose Gadget > Line Color.



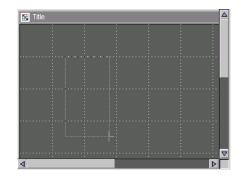
The color settings dialog box is displayed. For details on the color settings dialog box, see "Choosing a Color from the Color Settings Dialog Box" in section 2.30.

4. Choose Gadget > Fill Color.

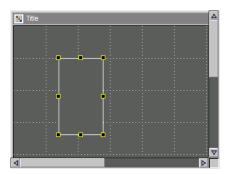


The color settings dialog box is displayed. For details on the color settings dialog box, see "Choosing a Color from the Color Settings Dialog Box" in section 2.30.

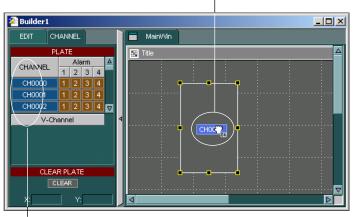
- **5.** Move the mouse to a location in the editing area where you want to place the value rectangle.
- 6. Drag the cursor to the location of the opposite corner of the value rectangle.



A value rectangle is created using the two corner points specified in steps 5 and 6.



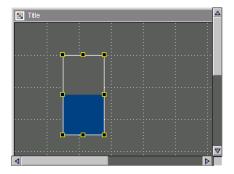
- **7.** Move the cursor to the channel you wish to assign to the value rectangle on the channel page of the operation panel.
- **8.** Drag the channel to the value rectangle.



(2) Drop the channel plate on the value rectangle.

(1) Drag the channel you wish to assign.

A value rectangle is created with the desired channel assigned to it.



#### Note

- When you drag a channel over a value rectangle, the cursor changes to a . If the cursor changes to a , this indicates that the selected channel can not be assigned to the value rectangle. Be sure to confirm whether or not a channel may be assigned.
- To remove channel assignments from value rectangles, see "Removing Channel or Alarm Assignments from Objects" in section 2.30.

## Editing from the Properties Dialog Box

- **1.** Click the **Edit** icon in the OBJECT group of the EDIT page of the operation panel, or click the **Edit** button in the object bar.
- 2. Select the value rectangle you wish to edit in the editing area.
- 3. Choose Edit > Properties or right-click and select Properties.

34 p		Dudid.				
🔀 Builder - Builder 1						
File	Edit	Gadget	Text	Arrangemer		
I D	C	ıt	0	itrl+X		
	C	ру	0	itrl+⊂		
	Pa	Paste		itrl+V		
-	Select All		Ctrl+A			
Í		SIECC MI				
	Pr	Properties		lt+Enter		
	Co	Configuratio				
	Us	ser Setting	j			
	Append subwin Delete subwin					

The value rectangle properties dialog box is displayed.

Property			×	
X: Y: Width: Height: Line Width:	260 45 170 150	Line Color: Fill Color: Channel: Detail Min:	< NONE >	— Click here to change the assigned channel.
	ок	Max:	10.000	

Click here to edit the maximum and minimum values.

- 4. Move the cursor to the desired item and click to enter a new value.
- 5. Click OK.

## 2.13 Creating Indicators

You can create an indicator for any channel's alarm. You can also create channel or alarm labels.

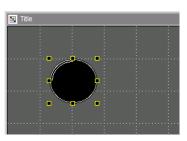
Procedure

#### **Creating a New Indicator**

- Click the Indicator icon on the EDIT page of the operation panel, or click the Indicator button in the object bar.
- 2. Move the mouse to a location in the editing area where you want to place the indicator.
- 3. Drag the cursor to the location of the opposite end of the indicator.

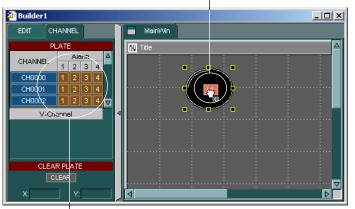


An indicator is created using the two corner points specified in steps 2 and 3.



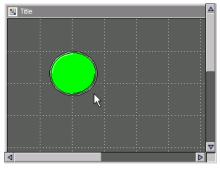
- **4.** Move the cursor to the channel alarm you wish to assign to the indicator on the channel page of the operation panel.
- 5. Drag the alarm to the indicator created in step 3.

(2) Drop the channel alarm plate on the indicator.



(1) Drag the channel alarm you wish to assign.

An indicator to which the desired channel alarm is assigned is created.



#### Note .

- When you drag a channel alarm over an indicator, the cursor changes to a , If the cursor changes to a , this indicates that the selected channel alarm can not be assigned to the indicator. Be sure to confirm whether or not a channel may be assigned.
- Only channel alarm labels can be assigned to indicators. A channel itself cannot be assigned.
- To remove channel alarm label assignments from indicators, see "Removing Channel or Alarm Assignments from Objects" in section 2.30.

### **Editing from the Properties Dialog Box**

- **1.** Click the **Edit** icon in the OBJECT group of the EDIT page of the operation panel, or click the **Edit** button in the object bar.
- 2. Select the indicator you wish to edit in the editing area.
- 3. Choose Edit > Properties or right-click and select Properties.

<mark>X</mark> Bi	uilder	- Builde	r1	
File	Edit	Gadget	Text	Arrangemer
	Ct.	ıt	C	itrl+X
Í	Co	ру	0	itrl+⊂
~	Pa	iste	0	itrl+∀
	Se	ect All	C	itrl+A
	Pr	operties	. A	lt+Enter
	Co	onfiguratio	on	
	Us	er Setting	j	
		pend sub		

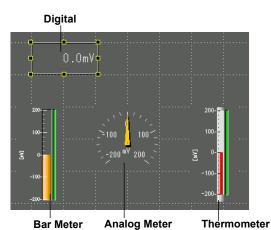
The indicator properties dialog box is displayed.

Property				×	
X: Y:	115	Channel: Level:	CH0001		— Click here to change the assigned channel.
Width: Height:	95	Alarm Color Shape:	c	Rect.	To change the alarm label, select from L1 to L4.
	ок		Cancel		

- 4. Move the cursor to the desired item and click to enter a new value.
- 5. Click OK.

## 2.14 Creating Meters

You can create several different kinds of meters (digital, bar, analog, and thermometer) and assign channels to them. You can also enter settings for such things as the channel, text size, and units.



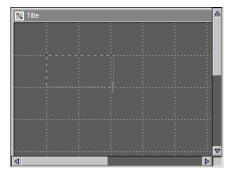
## Procedure

#### **Creating a New Meter**

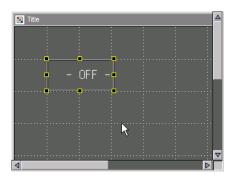
- Click the Digital, Bar Meter, Analog Meter, or Thermometer icon on the EDIT page of the operation panel. You can also click the corresponding buttons on the object bar.
- 2. Choose Text > Size, then select from Auto through 96 points.

<mark>汰</mark> Builder - Builder	1		
File Edit Gadget	Text Arrang	gement View	Wind
🗅 🖻 🔚 👗	Style I	•	
A / D 4	Size	Auto	
	Align I	<ul> <li>8 points</li> </ul>	- WE
$- \leftarrow \rightarrow \leftrightarrow$	Color	9 points	þ
Builder 1		10 points	
a builder i		12 points	
EDIT CHANN	EL	14 points	
OBJECT		16 points	- 6
		18 points	
🛛 📐 A /	-	20 points	
		24 points	
🕨 🧉 🗄	0 111	32 points	
		48 points	
🔡 🔛 📲	ш <u>II</u>	64 points	
	🖾 📻	96 points	

- **3.** Move the mouse to a location in the editing area where you want to place the meter.
- 4. Drag the cursor to the location of the opposite corner of the meter.

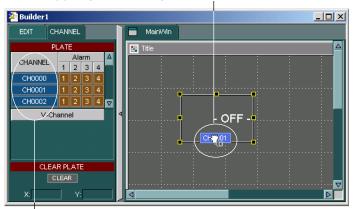


A meter is created using the two corner points specified in steps 3 and 4.



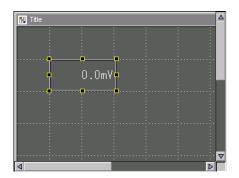
- **5.** Move the cursor to the channel you wish to assign to the meter on the channel page of the operation panel.
- 6. Drag the channel to the meter.

(2) Drop the channel plate on the meter.



(1) Drag the channel you wish to assign.

A meter is created with the desired channel assigned to it.



Note

- When you drag a channel over a meter, the cursor changes to a . If the cursor changes to confirm whether or not a channel may be assigned.
- To remove channel assignments from meters, see "Removing Channel or Alarm Assignments from Objects" in section 2.30.

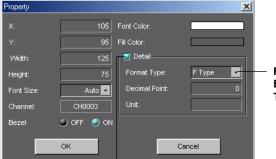
### **Editing from the Properties Dialog Box**

- **1.** Click the **Edit** icon in the OBJECT group of the EDIT page of the operation panel, or click the **Edit** button in the object bar.
- 2. Select the meter you wish to edit in the editing area.
- 3. Choose Edit > Properties or right-click and select Properties.

🔀 Builder - Builder 1						
File	Edit	Gadget	Text	Arrangemer		
	C	it.	C	itrl+X		
İ	Co	ру	0	itrl+⊂		
<u> </u>	Pa	iste	C	itrl+∀		
	Se	elect All	C	itrl+A		
	Pr	operties.	. A	lt+Enter		
	Co	onfiguratio	on			
	Us	ser Setting	J			
		Append subwin Delete subwin				

The meter properties dialog box is displayed.

#### The digital meter properties dialog box



F Type (fixed decimal representation) E Type (floating point representation) T Type (Time representation)

Click here to edit the values for the format, decimal point, and units.

The bar meter, analog meter, and thermometer properties dialog box

Properties			×
X:	90	Channel:	CH0001
Y:	150	🛛 🗹 Detail ——	
Width:	70	Min:	-200.000
Height:	150	Max:	200.000
Font Size:	Auto 💌	Unit:	m∨
	ок		Cancel

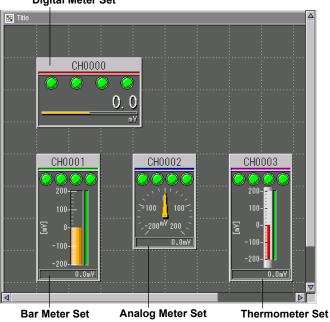
Click here to edit the maximum, minimum, and units values.

- 4. Move the cursor to the desired item and click to enter a new value.
- 5. Click OK.

2

## 2.15 Creating Meter Sets

You can create several different kinds of meter sets (digital, bar, analog, and thermometer) and assign channels to them. You can also enter settings for such things as the channel, text size, decimal place, and units.



#### **Digital Meter Set**

### Procedure

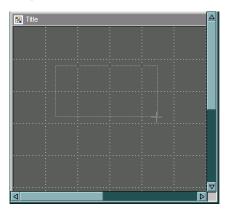
#### **Creating a New Meter Set**

- Click the Digital Meter Set, Bar Meter Set, Analog Meter Set, or Thermometer Set icon on the EDIT page of the operation panel. You can also click the corresponding buttons on the object bar.
- 2. Choose Text > Size, then select from Auto through 96 points.

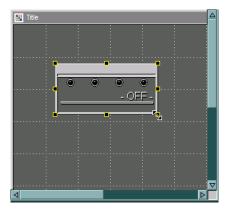


**3.** Move the mouse to a location in the editing area where you want to place the meter set.

4. Drag the cursor to the location of the opposite corner of the meter set.

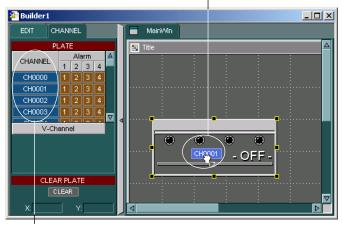


A meter set is created using the two corner points specified in steps 3 and 4.



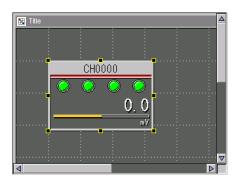
- **5.** Move the cursor to the channel you wish to assign to the meter set on the channel page of the operation panel.
- 6. Drag the channel to the meter set.

(2) Drop the channel plate on the meter set.



(1) Drag the channel you wish to assign.

A meter set is created with the desired channel assigned to it.

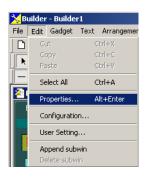


### Note.

- When you drag a channel over a meter set, the cursor changes to a . If the cursor changes to a . If the indicates that the selected channel can not be assigned to the meter set. Be sure to confirm whether or not a channel may be assigned.
- To remove channel assignments from meter sets, see "Removing Channel or Alarm Assignments from Objects" in section 2.30.

### **Editing from the Properties Dialog Box**

- **1.** Click the **Edit** icon in the OBJECT group of the EDIT page of the operation panel, or click the **Edit** button in the object bar.
- 2. Select the meter set you wish to edit in the editing area.
- 3. Choose Edit > Properties or right-click and select Properties.



The meter set properties dialog box is displayed.

Select F Type (fixed decimal representation)

	or E Type (file	oating poin	t representatio	on).
Properties				×
	50	🛛 🗂 🗾 Detail ——		
	50	Format Type:	FType	-
Width:	165	Decimal Point	::	3
Height:	110	Min:	-200.00	0
Font Size:	Auto 🔻	Max:	200.00	0
Channel:	CH0000	Unit:	m∨	
		Color:		
	ок		Cancel	

Click here to edit the format type, decimal point, minimum value, maximum value, units, and color.

- 4. Move the cursor to the desired item and click to enter a new value.
- 5. Click OK.

2

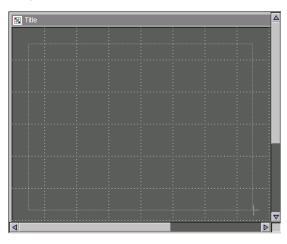
## 2.16 Creating Trend Graphs

You can create trend graphs and assign channels to them. You can also enter settings for such things as the channel, units, grid color, and background color.

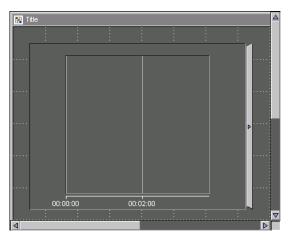
## Procedure

## **Creating a New Trend Graph**

- Click the Trend Graph icon in the OBJECT group of the EDIT page of the operation panel, or click the Trend Graph button in the object bar.
- **2.** Move the mouse to a location in the editing area where you want to place the trend graph.
- 3. Drag the cursor to the location of the opposite corner of the trend graph.



A trend graph is created using the two corner points specified in steps 2 and 3.



**4.** Move the cursor to the channel you wish to assign to the trend graph on the channel page of the operation panel.

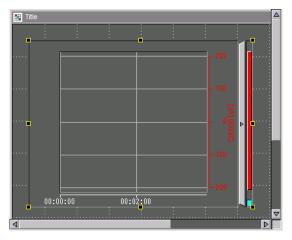
**5.** Drag the channel to the trend graph.

🔊 Builder 1 <u>\_ | ×</u> 📕 MainWin CHANNEL PLATE 🔢 Title Δ Alarm HANNEL 1 2 3 4 сносо CH0002 CH0003 CH0004 CH0005 CHOODE СН0001 X-Channel LEAR PLATE 00:00:00 00:02:00 CLEAR ⊳

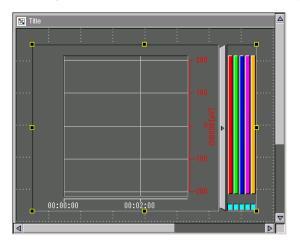
(2) Drop the channel plate on the trend graph.

(1) Drag the channel you wish to assign.

The specified channel is assigned to the trend graph.



Repeat steps 4 and 5 for each channel you wish to assign.
 A trend graph is created with the desired channel assigned to it.



#### Note .

- When you drag a channel over a trend graph, the cursor changes to a . If the cursor changes to a , this indicates that the selected channel can not be assigned to the trend graph. Be sure to confirm whether or not a channel may be assigned.
- To remove channel assignments from trend graphs, see "Removing Channel or Alarm Assignments from Objects" in section 2.30.

#### Editing from the Properties Dialog Box

- **1.** Click the **Edit** icon in the OBJECT group of the EDIT page of the operation panel, or click the **Edit** button in the object bar.
- 2. Select the trend graph you wish to edit in the editing area.
- 3. Choose Edit > Properties or right-click and select Properties.



The meter set properties dialog box is displayed.

	Se	elect			1		içk he	ere to	о ар	ply display to display	/ limits.	20116.	
roperty													
x:	40	Sc	ale:			1 🔻		🖌 Alar	m	Grid	Color:		
Y:	70	Zoi	ne:		User	Zone 🗸		Limit	er	Back	ground Cir.:		
Width:	270	Dra			Dpen 💌								
Height:	170		id Dens	ity:	Normal G	rid 🔻							
Line Width:	1 🔻												
Channel													
No. Channel	Y Axis	Zor		1	Trip A	Tri	pВ	Att.	Form.	Sca		Unit	Color
		Min	Max			ļ				Min	Max		
🔀 01 CH0000	🗾 Linear 🧎	0	100		0.000		0.000	<b>ORIG</b>	<u>e</u>	-10.000	10.000	unit	
2 CH0001	📕 🛛 Linear 🧃	0	100		0.000		0.000	<b>ORIG</b>	•	-10.000	10.000	unit	
🔀 03 CH0002	📓 Linear 🧃		100		0.000		0.000	<b>ORIG</b>	Ē,	-10.000		unit	
M CH0003	🛛 Linear 🧃	0	100		0.000		0.000		Ē,	-10.000	10.000	unit	
<b>05</b> CH0004	🛛 Linear 🕇	0	100		0.000		0.000		Ē	-10.000	10.000	unit	
06 CH0005	🛛 🛛 Linear 1	0	100		0.000		0.000		Ē.	-10.000	10.000	unit	
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Insert	Delete	İ		ру		Paste				-			
			ок							Cancel			

Select one of the following zones for the y-axis: User Zone, Full Zone, Slide Zone, Multi-Axes Zone, Edit Zone, or Auto Zone. Click here to apply display limits.

Setting shortcut buttons (see page 2-10).

Each trend graph setting is the same as for the DAQ32 Plus, DAQEXPLORER, DAQLOGGER, or MXLOGGER.

For details, see their respective user's manuals.

- 4. Move the cursor to the desired item and click to enter a new value.
- 5. Click OK.

2

## 2.17 Creating Pictures

You can place a "picture" (a bit mapped image) in the monitor screen.

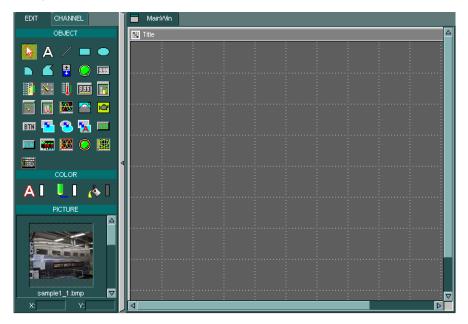
#### Procedure

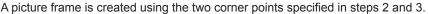
### Placing a Picture in the Picture Folder

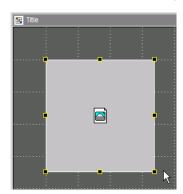
Place images in BMP format that you want to have available for use into the AddObserver/Picture directory created during installation of the AddObserver.

#### **Creating a New Picture**

- 1. Click the **Picture** icon on the EDIT page of the operation panel, or click the **Picture** button in the object bar.
- 2. Move the mouse to a location in the editing area where you want to place the picture.
- 3. Drag the cursor to the location of the opposite corner of the picture.



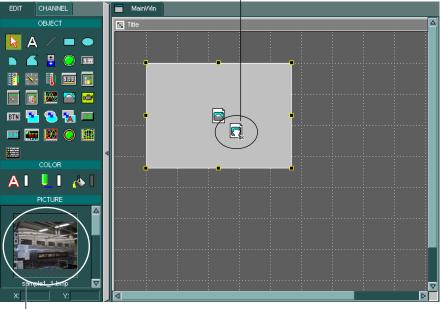




**4.** Move the cursor to the picture you want to place in the PICTURE group on the EDIT page of the operation panel.

5. Drag the picture to the frame created in step 3.

(2) Drop the picture on the picture frame.



(1) Drag the picture you wish to place.

The selected picture fills the picture frame.



### Note.

You can still drag a picture onto the editing area even if you do not first create a frame for it. In this case, the picture is sized according to the original size of the BMP file.

## Editing from the Properties Dialog Box

- **1.** Click the **Edit** icon in the OBJECT group of the EDIT page of the operation panel, or click the **Edit** button in the object bar.
- 2. Select the picture you wish to edit in the editing area.
- 3. Choose Edit > Properties or right-click and select Properties.

МВ	uilder	- Builde	r1					
File				Arrangemer				
	C.	ut	C	itrl+X				
	Co	ру	C	itrl+⊂				
×	Pa	iste	0	itrl+∀				
	Se	elect All	Ctrl+A					
	Pr	operties	. Alt+Enter					
	Co	onfiguratio	on					
	Us	User Setting						

The picture properties dialog box is displayed.

Propertie	5			X					
X:	50	Width:	170						
Y:	50	Height:	175						
Path:	C:VDAQOBSERVER(E	C:'DAQOBSERVER(E)'picture'sample1_1.bmp							
	ОК	]	Cancel						

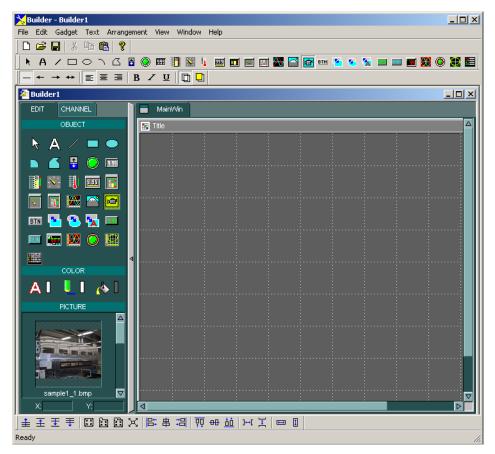
- 4. Move the cursor to the desired item and click to enter a new value.
- 5. Click OK.

# 2.18 Creating Monitor Windows

You can arrange GateEye images.

#### Procedure

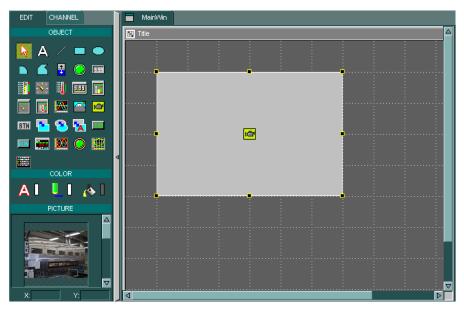
- 1. Enter detailed channel settings (see section 2.4).
- **2.** Select the Edit tab in the operation panel. Click the Monitor icon under Objects, or the Monitor button on the object bar.



- **3.** On the editing screen, move the mouse to one corner of the area where you want to place the monitor.
- Drag the mouse to the corner opposite the point specified in step 3.
   A rectangular monitor frame appears based on the 2 opposing points specified in

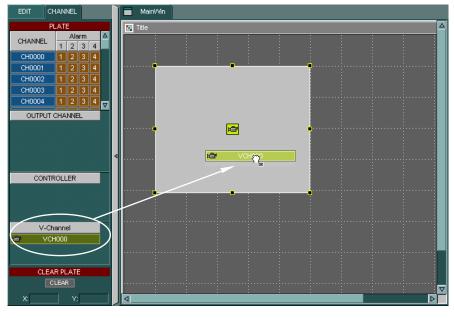
steps 3 and 4.

#### 2.18 Creating Monitor Windows



- **5.** Select the Channel tab in the operation panel. Move the mouse to the monitor you wish to place under V-Channel.
- 6. Drag the monitor into the frame created in step 4.

The specified monitor and V channel number are displayed in the frame.



7. Choose File > Save or Save As to save.

#### Note.

To view the monitor window, open AddObserver panel.

For details, see section 2.1–2.2 of the WX83 AddObserver Runtime User's Manual (IM WX83-01E).

## 2.19 Creating Buttons

You can create buttons for various tasks such as stopping alarm sounds and showing or hiding a specified monitor window.

Procedure

#### **Creating a New Button**

- Click the Button icon on the EDIT page of the operation panel, or click the Button button in the object bar.
- **2.** Move the mouse to a location in the editing area where you want to place the button.

EDIT CHANNEL	MainWin
OBJECT	📰 Title
► A / ■ ●	
🗅 🧉 🚦 🔘 🎟	
📳 📉 📕 🏧 📊	
💽 🔟 🏧 🔤	
💵 🏊 🔏 🙀 📼	
🎟 🎆 💹 🔘 🔛	
	4

Drag the cursor to the location of the opposite corner of the button.
 A button is created using the two corner points specified in steps 2 and 3.

#### Setting the Button Function, Button Name, and Display Type

4. Choose Edit > Properties.

The button properties dialog box is displayed.

Property			×
X:	75	Display Style :	\varTheta BTN 👁 BTN
Y:	55	Font Size:	Auto 👻
Width:	145	Label:	Button
Height:	80	Function:	None 🗾
		Target Win.:	MainWin 🔽
c	к	Ca	ncel

#### Display Type

5. Select black text on white background or black text on white background.

#### Font Size

6. Select the size of the text that will appear on the buttons.

## Label

7. Enter the text that will appear on the button.

#### Function

- **8.** Select the function to be performed when the button is pressed from **None**, **Hide**, **Show**, **Alarm Sound ACK**.
- **9.** If you select Show or Hide, select the monitor window to be shown or hidden. To select a monitor window, monitor windows must be added beforehand. For details, see the next page.

You can specify the monitor window by dragging and dropping the icon of the desired window tab onto the button. In this case, the function automatically changes to Hide.

## 2.20 Creating Numeric Out Windows

You can create an object for editing output values and sending them to hosts whose types are set to I/O Channel in the Channel Detail Setting dialog box. You can only assign output channels.

#### Procedure

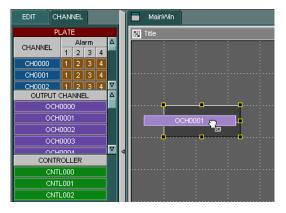
### Creating a New Object

- 1. Click the **Numeric Out** icon under Objects in the EDIT page of the operation panel, or click the **Numeric Out** button in the object bar.
- 2. Move the mouse cursor to a location in the editing area where you want to place one corner of the numeric out object.
- 3. Drag the cursor to the location of the opposite corner of the object.

EDIT CHANNEL	Main/Vin
OBJECT	🔀 Title
ト A ∕ ■ ●	
🗅 🧉 🗄 😣 🎟	
👔 📉 🔰 🎫 📊	
🔟 🔟 🔛 🔤	
BTN 🏊 🕙 🙀 🛄	
🎟 🎆 题 🔘 🕮	
4	
COLOR	
AI 🚺 🔥 I	

A numeric out object is created in the two opposing corners defined in steps 2 and 3.

- In the Setting Plate of the CHANNEL page in the operation panel, move the cursor to the output channel that you wish to assign to the numeric out object.
- **5.** Drag the OUTPUT CHANNNEL you wish to assign over the numeric out object created in step 3.



The specified output channel is now assigned to the numeric out object.

#### Note \_

- When you move the output channel over the numeric out object, the cursor changes to  $\mathbf{\Omega}_{\mathbf{k}}$ . Note that the output channel cannot be assigned when displayed as  $\mathbf{\Omega}_{\mathbf{k}}$ .
- · You can only assign output channels to numeric out objects.
- To delete the output channel assignment from the numeric out object, see section 2.30, "Editing Objects."
- · If no channels are linked to the output channel, it cannot be assigned.

## Editing from the Properties Dialog Box

- **1.** Click the **Edit** icon under Objects in the EDIT page of the operation panel, or click the **Edit** button in the object bar.
- 2. In the Edit area, select the numeric out object you wish to edit.
- 3. Choose Edit > Properties or right-click and select Properties.

<mark>X</mark> B	uilder	- Builde	r1					
File	Edit	Gadget	Text	Arrangemer				
D	C	ıt	C	itrl+X				
İ	Co	ру		itrl+C				
<b>~</b>	Pa	iste	0	itrl+∀				
	Se	ect All	C	Ctrl+A				
	Pr	operties	. A	Alt+Enter				
	Co	onfiguratio	on					
	Us	User Setting						
		opend sub						

The numeric out object's properties dialog box opens.

				—When OFF, outputs from the dialog box.
Property			×	When ON, the edit box is displayed in the
	165	Protect Level:	0 💌	objects area, and the edited values are output.
	175	Direct Output	OFF ON	
Width:	145	Label:		<ul> <li>Character string to display before the output va</li> </ul>
Height:	85	r 🗾 Detail ———		— Select this check box (light blue) to enable the
Font Size:	Auto 💌	Decimal Point:	3	decimal point, minimum, maximum, and unit se
Font Color:		Min:	-100.000	— Set the lower and upper limits that can be sent.
Fill Color:		Max:	100.000	When the value exceeds this range it cannot be
Channel:	< NONE >	Unit:		sent, but it can be displayed.
	ок		Cancel	<ul> <li>Click here to change the output channel to be registered. An Output Channel dialog box</li> </ul>
				opens. Select the channel.

- 4. Move the cursor to the item you wish to edit, then enter a setting.
- 5. Click the OK button.

## 2.21 Creating Selectable Out Objects

You can create an object that lets you select a character string to which an output value was registered, and send it to a host whose type is set to I/O Channel in the Channel Detail Setting dialog box.

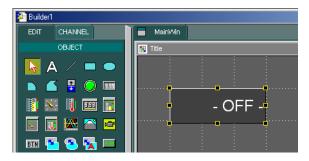
Procedure

### **Creating a New Object**

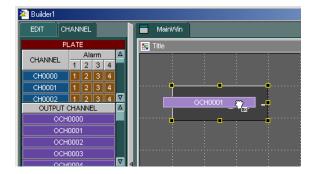
- Click the Selectable Out icon in the EDIT page of the operation panel, or click the Selectable Out button in the object bar.
- 2. Move the mouse cursor to a location in the editing area where you want to place one corner of the selectable out object.
- 3. Drag the cursor to the location of the opposite corner of the object.



A selectable out object is created in the two opposing corners defined in steps 2 and 3.



- In the Setting Plate of the CHANNEL page in the operation panel, move the cursor to the output channel that you wish to assign to the selectable out object.
- **5.** Drag the OUTPUT CHANNEL you wish to assign over the selectable out object created in step 3.



The specified output channel is now assigned to the selectable out object.

#### Note.

- When you move the output channel over the selectable out object, the cursor changes to
  - Note that the output channel cannot be assigned when displayed as
     You can only assign output channels to selectable out objects.
- To delete the output channel assignment from the selectable out object, see section 2.30, "Editing Objects."
- If no channels are linked to the output channel, it cannot be assigned.

#### **Editing from the Properties Dialog Box**

- **1.** Click the **Edit** icon under Objects in the EDIT page of the operation panel, or click the **Edit** button in the object bar.
- 2. In the Edit area, select the selectable out object you wish to edit.
- 3. Choose Edit > Properties or right-click and select Properties.



The selectable out object's properties dialog box opens.

roperty						×
		70	Direct	Output	t 🥥 OFF 🎱	ON
		55	No.	Value	Label	
Width:		100	01	0	start	
Height:		65	2 02	1	stop	
Font Size:	Au	to 🔻	<b>X</b> 03	2	start2	
Font Color:			<b>X</b> 04	3	stop2	
Fill Color:			05	4		
			06	5		
Channel:	< NON	>	07	6		
Protect Level:	0	~	08	7		

 The range of values that can be specified is 0 to 99. Click here to change the output channel to be registered. An Output Channel dialog box opens. Select the channel.

 When OFF, outputs from the dialog box.
 When ON, the edit box is displayed in the objects area, and the edited values are output.

 The integer values and character strings to be displayed are shown on a spreadsheet. You can edit the character string. Up to 16 characters can be entered for the character string. Up to eight statuses can be registered.

- 4. Move the cursor to the item you wish to edit, then enter a setting.
- 5. Click the OK button.

## 2.22 Creating Temperature Controller Parts

You can only assign controllers to temperature controller parts. When assigning a controller, the controller's channels and output channels are assigned to each part of the temperature controller parts.

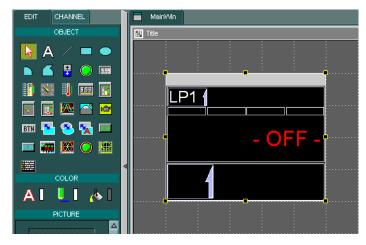
#### Procedure

### Creating a New Object

- **1.** Click the **Temperature Controller Parts** icon in the EDIT page of the operation panel, or click the **Temperature Controller Parts** button in the object bar.
- 2. Move the mouse cursor to a location in the editing area where you want to place one corner of the temperature controller parts.
- **3.** Drag the cursor to the location of the opposite corner of the object.

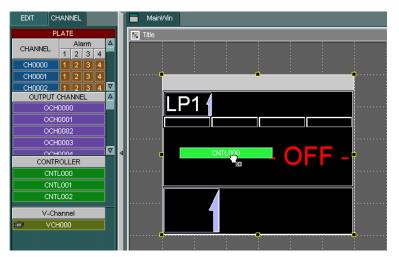


A temperature controller is created in the two opposing corners defined in steps 2 and 3.



**4.** In the Setting Plate of the CHANNNEL page in the operation panel, move the cursor to the controller that you wish to assign to the temperature controller parts.

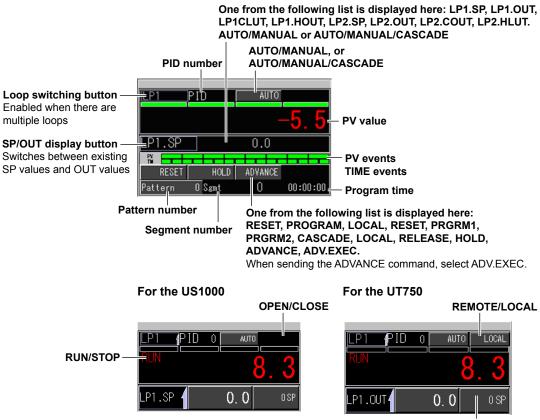
**5.** Drag the controller you wish to assign over the temperature controller parts created in step 3.



The specified controller is now assigned to the temperature controller parts.

Example of Assignmen

#### For the UP750



SP number

Assign all channels that are set on GateCONTROL by default. The channels that can be assigned differ according to the model and control mode.

The RUN/STOP channels and other quantities depend on the GateCONTROL settings.

The maximum and minimum output values, decimal place, units, and other parameters are assigned according to attributes set in channel detail settings (see section 2.4).

#### Note.

- When you move the controller over the temperature controller, the cursor changes to Note that the controller cannot be assigned when displayed as
- You can only assign controllers to temperature controllers.
- To delete the controller assignment from temperature controller parts, see section 2.30, "Editing Objects."

## Editing from the Properties Dialog Box

- **1.** Click the **Edit** icon under Objects in the EDIT page of the operation panel, or click the **Edit** button in the object bar.
- 2. In the Edit area, select the temperature controller parts you wish to edit.
- 3. Choose Edit > Properties or right-click and select Properties.



The Temperature Controller Parts properties dialog box opens.

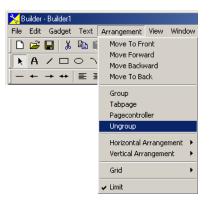
Property			×	
X:	50	Protect Level:	0 🔽	— Turn ON/OFF the area for displaying PV events and TIME events of the temperature controller
Y:	50	Controller No.:	< NONE >	(UP).
Width:	250	Display Event:	OFF ON	—— Turn ON/OFF the area for displaying items
Height:	200	Display Status:	OFF ON	such as the segment number of the temperature
PV Color:		Direct Output	OFF ON	controller (UP
OK				When OFF, outputs from the dialog box. When ON, the edit box is displayed in the
				objects area, and the edited values are output.

- 4. Move the cursor to the item you wish to edit, then enter a setting.
- 5. Click the OK button.

## Ungrouping Temperature Controller Parts

When you ungroup temperature controller parts, you cannot undo the operation.

- 1. Click to select the Temperature Controller Parts you wish to edit.
- 2. From the Arrangement menu, choose Ungroup.

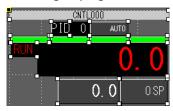


The objects are ungrouped.

### Before ungrouping



#### After ungrouping



Of the loop switching buttons whose displays change when you click them and the SP/OUT switching buttons, only the number that change can be overlapped.

PV channels, program time, and other items are assigned to digital meters, alarms are assigned to square signal objects, and PV events and time events are assigned to color change rectangle objects.

SP and OUT objects that can be output are assigned to Numeric Out objects, and HOLD is assigned to Selectable Out objects. Also, display-only objects such as RUN/STOP cannot be assigned to text string change objects.

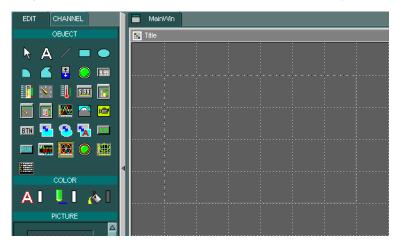
## 2.23 Creating Extended Trend Graph

You can create a trend graph with up to 1600 arbitrarily assigned channels. The channels, units, grid color, background color, and other parameters can be specified.

## Procedure

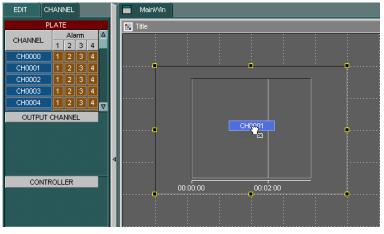
#### **Creating a New Object**

- **1.** Click the **Extended Trend Graph** icon in the EDIT page of the operation panel, or click the **Extended Trend Graph** button in the object bar.
- **2.** Move the mouse cursor to a location in the editing area where you want to place one corner of the extended trend graph parts.
- 3. Drag the cursor to the location of the opposite corner of the object.



An extended trend graph is created using the two corner points specified in steps 2 and 3.

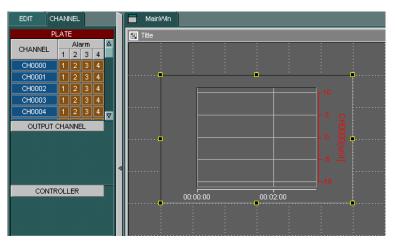
**4.** In the Setting plate of the Channel page in the operation panel, drag the channels that you wish to assign to the specified extended trend graph.



#### Note

- When you drag a channel over an extended trend graph, the cursor changes to a . If the cursor changes to a . this indicates that the selected channel can not be assigned to the extended trend graph. Be sure to confirm whether or not a channel may be assigned.
- To remove channel assignments from extended trend graphs, see "Removing Channel or Alarm Assignments from Objects" in section 2.30.

The grid and assigned span are displayed.



## Editing from the Properties Dialog Box

- **1.** Click the **Edit** icon in the OBJECT group of the EDIT page of the operation panel, or click the **Edit** button in the object bar.
- 2. Select the extended trend graph you wish to edit in the editing area.
- 3. Choose Edit > Properties or right-click and select Properties.



The extended trend graph properties dialog box is displayed

You can assign up to 1600 channels.

For information about the setting shortcut buttons, see page 2-10.

	50	Line Width:			1 🔻		🗾 Alarm	Grid Color	:	_	5,
	50	Scale:			1 🔻		Limiter	Backgrou	nd Cir.:		5
	300	Grid Density		Normal Grid	•						
	200										
										_	
Channel	Y Axis	Trip A		Trip B	Att.	Form.			Unit	Color	
CH0000	Linear 1	0.000		0.000		Ē,	-10.000		unit		
CH0001	Linear 1	0.000		0.000	<b>ORIG</b>	Ē.	-10.000	10.000	unit		
CH0002	Linear 🕇	0.000		0.000	<b>ORIG</b>	Ē,	-10.000	10.000	unit		
CH0003	Linear 🚹	0.000		0.000	<b>ORIG</b>	Ē	-10.000	10.000	unit		
CH0004	Linear 1	0.000		0.000	<b>ORIG</b>		-10.000				
L	Linear 1	0.000		0.000		<u>e</u>	-10.000	10.000	unit 		
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sert	Delete	Сору	,	Pa	iste						
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CH0000         Linear         0.000         0.000         0.000         0.000           CH0001         Linear         0.000         0.000         0.000         0.000         0.000           CH0002         Linear         0.000         0.000         0.000         0.000         0.000           CH0003         Linear         0.000         0.000         0.000         0.000         0.000           CH0005         Linear         0.000         0.000         0.000         0.000         0.000           CH0005         Linear         0.000         0.000         0.000         0.000         0.000           CH0005         Linear         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000</td> <td>50         Scale:         1           300         Grid Density:         Normal Grid           200         VAxis         Trip A           Channel         Y Axis         Trip A           Chool         Linear         0.000         0.000           Chool         0.000         0.000         0.000           Chool         Linear         0.000         0.000           Chool         Linear         0.000         0.000           Chool         Copy         Paste</td> <td>50         Scale:         1         Limiter           300         Grid Density:         Normal Grid         Limiter           200         Grid Density:         Normal Grid         Scale:         Min           Channel         Y Axis         Trip A         Trip B         Att.         Fom.         Scale:           Channel         Y Axis         Trip A         Trip B         Att.         Fom.         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Fom.         Scale         Unit         Color           Channel         Y Axis         Trip A         Trip B         Att.         Fom.         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Min           CH0000         Linear         0.000         0.000         QBS         Q         -10.000           CH0001         Linear         0.000         0.000         QBS         Q         -10.000           CH0002         Linear         0.000         0.000         QBS         Q         -10.000           CH0003         Linear         0.000         0.000         QBS         Q         -10.000           CH0005         Linear         0.000         0.000         QBS         Q         -10.000           CH0005         Linear         0.000         0.000         QBS         Q         -10.000           Ch005         Linear         0.000         0.000         QBS         Q         -10.000           Sert         Delete	50         Scale:         1         Limiter         Backgrout           300         Grid Density:         Normal Grid         Image: Common Scale         Min         Max           200         Channel         Y Axis         Trip A         Trip B         Att.         Fom.         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Form.         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Fom.         Scale         Unit         Color           Channel         Y Axis         Trip A         Trip B         Att.         Fom.         Min         Max         Unit         Color           CH0000         Unear         1         0.000         0.000         QRS         -10.000         10.000         Unit         Color           CH0001         Linear         1         0.000         0.000         QRS         -10.000         10.000         Unit         Color           CH0002         Linear         1         0.000         0.000         QRS         -10.000         10.000         Unit         Color           CH0003         Linear         1         0.000         0.000         QRS         -10.000         10.000         Unit         Color           CH0004         Linear         1         0.000         0.000         QRS         -10.000         10.000         Unit         Color         -10.000</td></td<>	50         Scale:         1         Limiter         Background Cir.:           300         Grid Density:         Normal Grid           Background Cir.:           200         Grid Density:         Normal Grid           Background Cir.:           Channel         Y Axis         Trip A         Trip B         Att.         Form.         Scale         Unit           CH0000         Unear         1         0.000         0.000         QRS         -10.000         10.000         unit           CH0001         Linear         1         0.000         0.000         QRS         -10.000         10.000         unit           CH0002         Linear         1         0.000         0.000         QRS         -10.000         10.000         unit           CH0003         Linear         1         0.000         0.000         QRS         -10.000         10.000         unit           CH0004         Linear         1         0.000         0.000         QRS         -10.000         10.000         unit           CH0005         Linear         1         0.000         0.000         QRS         -10.000         10.000         unit	50         Scale:         1         Limiter         Background Cir :           300         Grid Density:         Normal Grid              200         Channel         Y Axis         Trip A         Trip B         Att.         Fom.         Scale         Unit         Color           Channel         Y Axis         Trip A         Trip B         Att.         Fom.         Min         Max         Unit         Color           CH0000         Unear         1         0.000         0.000         QRS         -10.000         10.000         Unit         Color           CH0001         Linear         1         0.000         0.000         QRS         -10.000         10.000         Unit         Color           CH0002         Linear         1         0.000         0.000         QRS         -10.000         10.000         Unit         Color           CH0003         Linear         1         0.000         0.000         QRS         -10.000         10.000         Unit         Color           CH0004         Linear         1         0.000         0.000         QRS         -10.000         10.000         Unit         Color         -10.000

Setting shortcut buttons

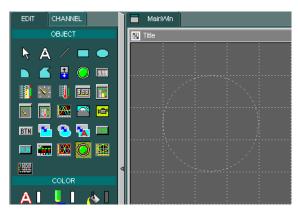
## 2.24 Creating Extended Indicator

A signal object to which channels and alarms are assigned. If multiple alarms are assigned, they are applied in an OR relationship. Also, the alarm range is the maximum range of the assigned channels or alarms.

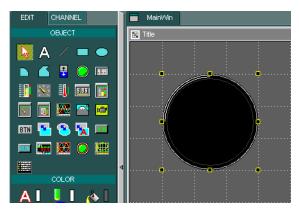
Procedure

#### Creating a New extended indicator

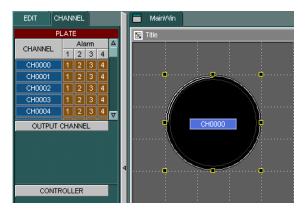
- Click the extended indicator icon in the EDIT page of the operation panel, or click the Extended Indicator button in the object bar.
- 2. Move the mouse cursor to a location in the editing area where you want to place one corner of the extended indicator parts.



3. Drag the cursor to the location of the opposite corner of the object.



**4.** In the Channels page of the operation panel, drag the channels you wish to assign. You can assign multiple channels.



#### Note.

- Only channel alarm labels can be assigned to extended indicators. A channel itself cannot be assigned.
- To remove channel alarm label assignments from extended indicators, see "Removing Channel or Alarm Assignments from Objects" in section 2.30.

### Editing from the Properties Dialog Box

- 1. Click the Edit icon in the OBJECT group of the EDIT page of the operation panel, or click the Edit button in the object bar.
- 2. Select the extended indicator you wish to edit in the editing area.
- 3. Choose Edit > Properties or right-click and select Properties.



The extended trend graph properties dialog box is displayed.

Property			×
	50	Height:	150
	50	Alarm Color:	
Width:	150	Shape: 🥥 Elli	ip. 🔘 Rect.
Alarm Area			
Channel:	CH0000	- CH000	)0
Level:			
	ок	Cancel	

4. Move the cursor to the desired item and click to enter a new value.

5. Click OK.

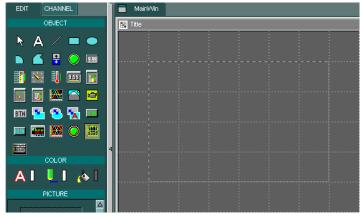
## 2.25 Creating X-Y Graph

Procedure

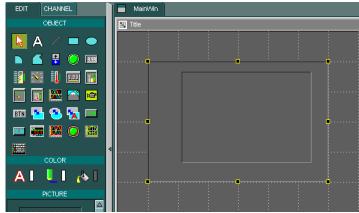
You can create an X-Y display graph in which an arbitrary channel is assigned to the X and Y axes.

### Creating a New X-Y Graph

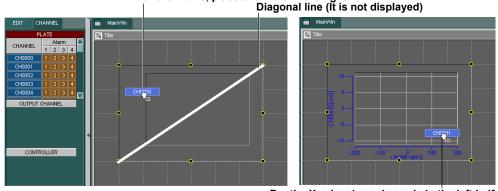
- Click the X-Y Graph icon in the EDIT page of the operation panel, or click the X-Y Graph button in the object bar.
- 2. Move the mouse cursor to a location in the editing area where you want to place one corner of the X-Y graph parts.



3. Drag the cursor to the location of the opposite corner of the object.



**4.** In the **Channels** page of the operation panel, drag the channels you wish to assign. For the X axis, place them in the left half, and for the Y axis, place them in the right half.



For the Y axis, place channels in the right half

#### Note.

- When you drag a channel over a X-Y graph, the cursor changes to a . If the cursor changes to a , this indicates that the selected channel can not be assigned to the X-Y graph. Be sure to confirm whether or not a channel may be assigned.
- To remove channel assignments from X-Y graphs, see "Removing Channel or Alarm Assignments from Objects" in section 2.30.

## Editing from the Properties Dialog Box

**1.** Click the **Edit** icon in the OBJECT group of the **EDIT** page of the operation panel, or click the **Edit** button in the object bar.

□ Select the check box (blue) to display the

- 2. Select the X-Y graph you wish to edit in the editing area.
- 3. Choose Edit > Properties or right-click and select Properties.



The X-Y graph properties dialog box is displayed.

				current data position in the X-Y graph.								
Property									>			
		50	) Line	Width:	1 🔻	1	🗾 Limiter		Grid Color:		]	
Y:		5(	50 Grid Density: N		Normal Grid 🔽		Pointer Background Clr.		:	]		
Width:		300	0 Data Length:		500							
Height:		200	)									
Channe	el						,	,	,			
No.	X Channel	Att.	Scale		Unit	Color	Y Channel	Att.	Scale		Unit	
01	CH0001		Min -10.000	Max 10.000	unit		СН0000	USE	Min -10.000	Max 10.000	unit	
	CH0002		-10.000	10.000			CH0001		-10.000	10.000		
_	CH0003		-10.000	10.000			CH0002		-10.000	10.000		-
_	CH0004		-10.000	10.000			CH0003		-10.000	10.000		
					,	-1		,				
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Insert		De	elete	Сору	Paste							
			OK				Cancel					

└─ Setting shortcut buttons (see page 2-10).

- 4. Move the cursor to the desired item and click to enter a new value.
- 5. Click OK.

# 2.26 Creating Alarm Summary

You can create an object that displays a summary of alarms from level 1 to level 4 to which arbitrary channels are assigned. Summaries include the time the alarm was generated, the level, alarm type, and other information.

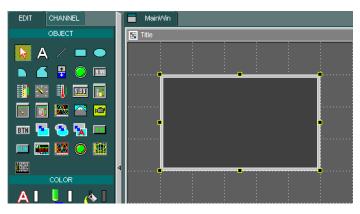
#### Procedure

#### Creating a New alarm summary

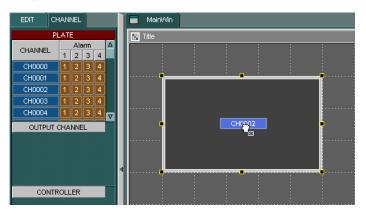
- **1.** Click the **Alarm Summary** icon in the **EDIT** page of the operation panel, or click the **Alarm Summary** button in the object bar.
- **2.** Move the mouse cursor to a location in the editing area where you want to place one corner of the alarm summary parts.

EDIT CHANNEL	Main/Vin
OBJECT	🐹 Title
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📔 📉 🔋 🎟 📆	
💽 🔟 💹 🔤 🖻	
etn 🏊 🥸 🙀 📼	
🎟 🎆 题 🗿 🔛	
	4
COLOR	
AI I 🔥 I	

3. Drag the cursor to the location of the opposite corner of the object.



**4.** In the Channels page of the operation panel, drag the channels you wish to assign.



#### Note -

- When you drag a channel over an alarm summary, the cursor changes to a . If the cursor changes to a , this indicates that the selected channel can not be assigned to the alarm summary. Be sure to confirm whether or not a channel may be assigned.
- To remove channel assignments from alarm summaris, see "Removing Channel or Alarm Assignments from Objects" in section 2.30.

#### **Editing from the Properties Dialog Box**

- 1. Click the Alarm Summary icon in the OBJECT group of the EDIT page of the operation panel, or click the Edit button in the object bar.
- 2. Select the alarm summary you wish to edit in the editing area.
- 3. Choose Edit > Properties or right-click and select Properties.



The alarm summary properties dialog box is displayed.

4. Move the cursor to the desired item and click to enter a new value.

Property			×
X:	50	Height:	150
Y:	50	Font Color:	
Width:	250	Fill Color:	
⊢ <sup>Alarm</sup> Area -			
Channel:	CH0002	- CH00	29
	ок	Cancel	

5. Click OK.

## 2.27 Creating Color Change (Rectangle and Ellipse) Objects

#### Procedure

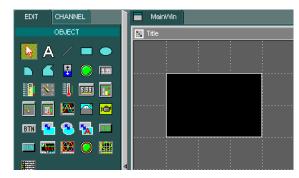
#### Creating a New Object

- Click the Color Change Rectangle or Color Change Ellipse icon in the EDIT page of the operation panel, or click the Color Change Rectangle or Color Change Ellipse button in the object bar.
- 2. Move the mouse cursor to a location in the editing area where you want to place one corner of the rectangle object or ellipse object.
- 3. Drag the cursor to the location of the opposite corner of the object.



EDIT	MainWin
OBJECT	🔝 Title
▶ A / ■ ●	
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📲 🔀 📲 🎹 🔀	
🔽 🔟 💹 🗠 🖻	
BTN 🏊 🔁 🙀 💷	
🎟 🎆 🔛 🔾 🚟	

A rectangle or ellipse is created in the two opposing corners defined in steps 2 and 3.



EDIT CHANNEL	Main/Vin
OBJECT	🔛 Title
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🗅 🧉 🗄 🔘 🎟	
🚺 🔛 🧵 🧰 📊	
💽 🛐 🏧 🔤	
BTN 🏊 🥸 🙀 💷	
🎟 🎆 💹 🔾 🔛	

- **4.** In the Setting Plate of the CHANNEL page in the operation panel, move the cursor to the channel that you wish to assign to the rectangle or ellipse.
- 5. Drag the channel you wish to assign over the rectangle or ellipse created in step 3.

	IANNEL		ĨE	MainWin						
PL	_ATE			Title						
CHANNEL	Alarm	Δ			:			: :		
CHANNEL	1 2 3 4									
CH0000	1234									
CH0001	1234			······		•	i · · · · · · ·	· · · · · ·	<u> </u>	
CH0002	1234	V						÷/		k i
OUTPUT	CHANNEL	Δ						1		l ∖ i
ОСН	0000				CH000	00m	•••••			
ОСН	0001					DK				
ОСН	0002									
ОСН	0003									
ОСН	0004	▼.	4							
CONTR	OLLER									

The specified channel is now assigned to the rectangle or ellipse.

#### Note\_

- When you move the channel over the rectangle or ellipse, the cursor changes to **C**. Note that the channel cannot be assigned when displayed as **C**.
- To delete the channel assignment from the rectangle or ellipse, see section 2.30, "Editing Objects."

#### Editing from the Properties Dialog Box

- Click the Edit icon under Objects in the EDIT page of the operation panel, or click the Edit button in the object bar.
- 2. In the Edit area, select the rectangle or ellipse object you wish to edit.
- 3. Choose Edit > Properties or right-click and select Properties.

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	Co	ру	C	trl+⊂
<u> </u>	Pa	iste	0	trl+∀
	Se	ect All	C	trl+A
	Pr	operties	. А	lt+Enter
	Co	onfiguratio	on	
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		opend sub		
	De	elete subv	ЛП	

The rectangle	or ellin	ose's p	roperties	dialog	box	opens.
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Property			×
X: Y: Width: Height:	50 50 150 100	Line Width: Channel: Line Color: Color of Invalid:	1 V CH0000
Manual No. of Thresh	dd: 4 ■ Color 5.0 → 10.0 →	AUTO Type: O G Detail Min: Max:	ray Color -100.0 100.0
	ок	Cance	21

If the Channel is None, it is dimmed.

If Manual is selected (blue), the following items can be set.

Thresholds: Select the number (1-4) of threshold values you wish to set. The values are automatically sorted in ascending order.

Threshold values: Enter the threshold values at which the color changes.

Color: Select colors. When the measured value of the channel assigned to the rectangle or ellipse object exceeds the threshold, the color set for above the threshold is displayed.

If Auto is selected (blue), the following items can be set.

- Type: Select grayscale or color scale. If Gray is selected, the minimum and maximum values of the input are shown in black and white, respectively, and 50% input is shown in gray. There are 255 gradations of color change from white to black. If Color is selected, the minimum and maximum values of the input are shown in blue and red, respectively, and 50% input is shown in green. There are 50 gradations of color change from red to blue. Also, if AUTO is selected for the color change object and Detail (Min and Max) is not selected, the maximum and minimum values of the assigned channel are applied.
- Details: Select (blue) to set the minimum and maximum values. Minimum/maximum value: Sets the maximum or minimum values of the scale.
- 4. Move the cursor to the item you wish to edit, then enter a setting.
- 5. Click the OK button.

# 2.28 Creating String Change Objects

You can create an object whose color, character string, and charcter color change when a specified threshold value is exceeded.

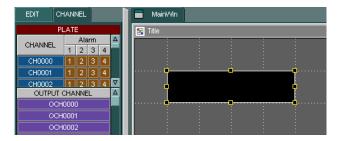
Procedure

#### **Creating a New Object**

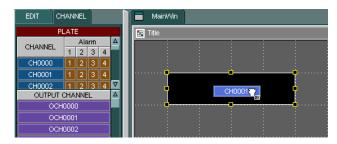
- **1.** Click the **String Change Rectangle** icon in the Edit page of the operation panel, or click the **String Change Rectangle** button in the object bar.
- 2. Move the mouse cursor to a location in the edit area where you want to place one corner of the rectangle object.
- 3. Drag the cursor to the location of the opposite corner of the object.



A rectangle is created in the two opposing corners defined in steps 2 and 3.



- **4.** In the Setting Plate of the CHANNEL page in the operation panel, move the cursor to the channel that you wish to assign to the rectangle.
- 5. Drag the output channel you wish to assign over the rectangle created in step 3.



The specified channel is now assigned to the rectangle.

#### Note.

- To delete the output channel assignment from the rectangle, see section 2.30, "Editing Objects."

### Editing from the Properties Dialog Box

- **1.** Click the **Edit** icon under Objects in the EDIT page of the operation panel, or click the **Edit** button in the object bar.
- 2. In the Edit area, select the string change object you wish to edit.
- 3. Choose Edit > Properties or right-click and select Properties.

<mark>Ж</mark> Ві	uilder	· - Builde	r1			
File	Edit	Gadget	Text	Arrangemen		
D	C(	ut	C	itrl+X		
Í		Copy		itrl+C		
₩ <u>^</u>	Pa	Paste		itrl+∀		
는	Se	elect All	C	itrl+A		
P	Pr	operties	. A	Alt+Enter		
	Co	onfiguratio	on			
	Us	ser Setting	j			
		opend sub elete subw				

The string change object's properties dialog box opens.

Property					x
X:		50	Font	Size:	Auto 💌
Y:		50	Line	Midth:	1 🔽
Width:		200	Line	Color:	
Height:		50	Color	of Invalid:	
Channel:	СНООО				
No. of Threshold					
	4 🗸	Color	Font Color		Label
		Color	Font Color	DANGER	Label
	10.0	Color	Font Color		Label
	10.0	Color	Font Color	DANGER	Label
	10.0 5.0	Color	Font Color	DANGER CAUTION	Label
	10.0	Color	Font Color	DANGER CAUTION +OVER	Label

Thresholds:	Select the number (1-4) of threshold values you wish to set.
	Threshold values: Enter threshold values at which the colors change. The values are automatically sorted in ascending order.
Color:	Select fill and character colors. When the measured value of the channel assigned to the string change object exceeds a threshold, the color set for the above threshold is displayed.
String:	Enter a character string. (using up to thirty two alphanumeric characters)

- 4. Move the cursor to the item you wish to edit, then enter a setting.
- 5. Click the OK button.

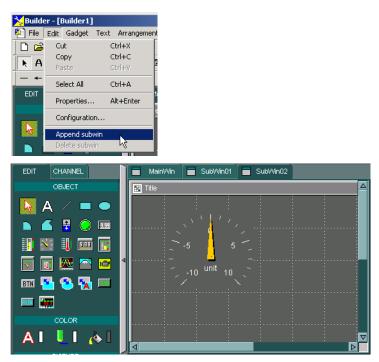
# 2.29 Adding Monitor Windows

You can add up to 7 monitor windows. The monitor windows that are added can also be displayed simultaneously on AddObserver Panel.

#### Procedure

#### Adding a Window

 Choose Edit > Add Subwin. A window is added. You can add up to 7 monitor windows. The windows that are added are automatically assigned tab names "SubWinX" (where X = 01 to 07).



2. Create a monitor window according to the aforementioned procedure.

#### Note

 You can select whether to show or hide the sub windows when monitor windows are displayed on AddObserver Panel. For details, see section 2.32, "Changing Monitor Window Display Properties."

#### **Deleting a Window**

- 3. Display the monitor window you wish to delete.
- Choose Edit > Delete Subwin. The window is deleted. You cannot delete the main window.



# 2.30 Editing Objects

The following is the procedure for editing any monitor screen object.

#### Selecting an Object

The following are the two ways to select an object.

- Clicking the Left Mouse Button Move the mouse over the object you wish to select and click the left mouse button. To select multiple objects, hold down the shift key while clicking the objects.
- **Dragging a Selection Frame** Move the mouse near the objects you wish to select, then drag a frame around them. All objects within the frame will be selected. The left-most object within the graph of selected objects is called the primary selected object.

#### Procedure

#### **Moving Objects**

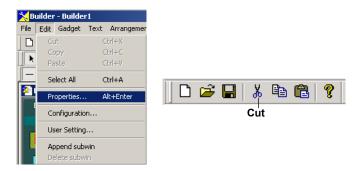
- **1.** Select the object or objects you wish to move. The selected object or objects are surrounded by a frame with 8 anchor points.
- 2. Drag the selected object(s) to move them.

#### **Resizing Objects**

- 1. Select the object(s) you wish to resize.
- 2. Drag the anchor points of the selected object(s) to resize them.

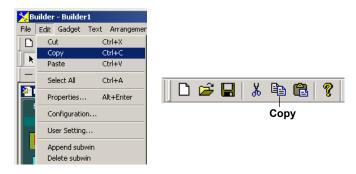
#### **Deleting Objects**

- 1. Select the object(s) you wish to delete.
- 2. Press the **Delete** key, choose **Edit** > **Cut**, or click the **Cut** button on the toolbar.



#### **Copying Objects**

- **1.** Click the object(s) you wish to copy to select them.
- 2. Choose Edit > Copy, or click the Copy button on the toolbar.



3. Choose Edit > Paste, or click the Paste button on the toolbar.



#### **Grouping and Ungrouping Objects**

- Grouping
  - 1. Select the objects you wish to group.
  - Choose Arrangement > Group, or click the Group button on the arrangement bar.



The objects selected in step 1 are grouped.

#### • Ungrouping

- 1. Select the group of objects you wish to ungroup.
- 2. Choose Arrangement > Ungroup, or click the Ungroup button on the arrangement bar.



The group of objects selected in step 1 are ungrouped.

- · Editing a Group in the Properties Dialog Box
  - 1. Select the group of objects you wish to edit.
  - 2. Choose Edit > Properties or right-click and select Properties.



The properties dialog box for the group is displayed.

5		<u> </u>
50	Width:	170
50	Height:	250
ок	Cancel	
	50	50 Height:

- 3. Move the cursor to the desired item and click to enter a new value.
- 4. Click OK.

#### Note \_\_\_

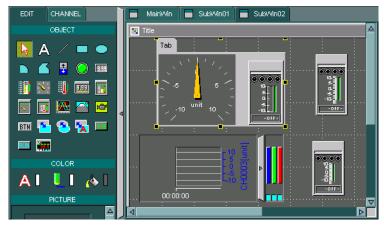
•

- The placement, width, and height can be modified in the properties dialog box for the group.
  - You cannot open a properties dialog box for any of the individual objects in a group. You
  - must first ungroup the objects to view their individual properties dialog boxes.

#### **Displaying Objects in Tabs**

You can switch windows by clicking tabs on AddObserver Panel.

- Creating a Tab Page
  - **1.** Select an object you wish to display in the tab page. You can also select multiple objects.
  - Choose Arrangement > Tabpage or click Tabpage button on the arrangement bar. If multiple objects are selected, the selected objects are placed in a single tab page.



- Editing an Object Placed in a Tab Page from the Properties Dialog Box
  - **3.** Select an object you placed in the tab page.
  - 4. Choose Edit > Properties. The Properties dialog box for the object is displayed.

Property				×	
x:	42	Tab Width :		32	-Tab width
Y:	0	Font Color:			Color of the text displayed on the tab
Width:	201	Fill Color:			
Height:	138	Label:	Tab		Tab color
					Text displayed on the tab
	ок	с	ancel		

Position and size displayed on AddObserver

- 5. Move the cursor to the desired item and enter a new value.
- 6. Click OK.
- Grouping Tab Pages
  - 3. You can group multiple pages.

Select the tab pages to be grouped.

 Choose Arrangement > Pagecontroller or click Pagecontroller button on the arrangement bar.



- · Editing the Tab Page Group from the Properties Dialog Box
  - Select the tab page group.
  - 2. Choose Edit > Properties or right-click and select Properties.

The Properties dialog box for the tab page group is displayed.

Property				×
X: Y: Width: Height:		10 0 326 138	Tab Color Mode: Initial Value:	DARK -
	ок		Cance	el

Position and size displayed on AddObserver

Select the mode by comparing the brightness of the page tab that is not displayed against the page tab that is displayed.

Tab page displayed on AddObserver panel The first tab is 0.

- 3. Move the cursor to the desired item and enter a new value.
- 4. Click OK.

#### Note \_

When tab pages are grouped, the properties dialog box of each object cannot be opened. To do so, you must ungroup.

#### **Clearing the Tab Display**

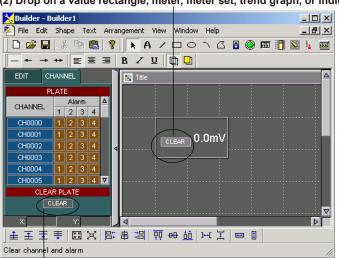
To clear the tab display, ungroup according to the aforementioned procedure.

- 1. Select the objects you wish to clear from the tab display.
- 2. Choose Arrangement > Ungroup or click Ungroup button on the arrangement bar.

#### **Removing Channel or Alarm Assignments from Objects**

Deletes the channel information assigned to a change rectangle, meter, meter set, trend graph, or other object, and the alarm level information of the channels assigned to the signals.

- 1. Drag the **CLEAR** icon from the CHANNEL page of the operation panel.
- 2. Drop the icon on the object from which you wish to remove the channel or channel alarm label assignment.



(2) Drop on a value rectangle, meter, meter set, trend graph, or indicator.

(1) Drag the CLEAR icon.

The assigned channel or alarm label is removed from the object.

#### Selecting the Color from the Edit Page on the Operation Panel

- To select a color for label character, click the Font Color icon in the COLOR group on the EDIT page of the operation panel. The color settings dialog box is displayed. For details on the color settings dialog box, see the "Choosing a Color from the Color Settings Dialog Box" in the next section.
- To select a character color for labels for lines, rectangles, ellipses, arcs, and polygons, click the **Line Color** icon in the COLOR group on the EDIT page of the operation panel.

The color settings dialog box is displayed. For details on the color settings dialog box, see the "Choosing a Color from the Color Settings Dialog Box" in the next section.

 To select a character color for labels, rectangles, ellipses, arcs, and polygons, click the Fill Color icon in the COLOR group on the EDIT page of the operation panel. The color settings dialog box is displayed. For details on the color settings dialog box, see the "Choosing a Color from the Color Settings Dialog Box" in the next section.



Choosing a Color from the Color Settings Dialog Box

 You can select the character color, line color, and fill color from the properties dialog box of each shape, or in the Text or Gadget menus.

In each case, the color settings dialog box is displayed.

Color ?X
Basic colors:
Curter a lass
Custom colors:
Define Custom Colors >>
OK Cancel

2. To select a default color, simply click the desired color.

To create a new color, click the **Define Custom Colors** button. Create the new color, then click the **Add** button. The new color is added to the Custom colors boxes.

3. Click OK.

2

# 2.31 Arranging Objects

You can select various methods for ordering monitor screen objects that overlap.

#### Procedure

#### Move To Front, Move Forward, Move Backward, Move To Back

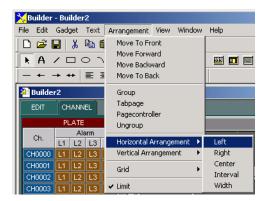
- 1. Select the object you want to arrange.
- 2. Choose Arrangement, then Move to Front, Move Forward, Move Backward, or Move to Back. You can also click the Move To front, Move Forward, Move Backward, or Move To Back buttons on the attribute bar.



The selected object(s) is moved.

#### **Aligning Objects Horizontally**

- 1. Select at least two objects that you want to align horizontally.
- Choose Arrangement > Horizontal Arrangement, then select from Left, Right, Center, Interval, and Width. You can also click the Arrange Left, Center Horizontally, Arrange Right, Unify Horizontal Interval, and Same Width buttons on the arrangement bar.



The objects selected in step one are modified per the command.

#### Note -

- When selecting multiple objects, the primary selected object serves as the reference point from which other objects are modified.
- If you choose Interval, you must first select three or more objects.

#### **Aligning Objects Vertically**

- 1. Select at least two objects that you want to align vertically.
- Choose Arrangement > Vertical Arrangement, then select from Top, Bottom, Center, Interval, and Height. You can also click the Arrange Top, Center Vertically, Arrange Bottom, Unify Vertical Interval, and Same Height buttons on the arrangement bar.



The objects selected in step one are modified per the command.

#### Note.

- When selecting multiple objects, the primary selected object serves as the reference point from which other objects are modified.
- If you choose Interval, you must first select three or more objects.

# 2.32 Changing Monitor Screen Display Properties

#### Procedure

#### Changing the Monitor Screen Size

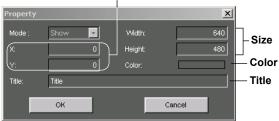
- 1. Deselect all objects on the monitor screen.
- 2. Choose Edit > Properties or right-click and select Properties.

🗙 Builder - Builder 1				
File	Edit	Gadget	Text	Arrangeme
D	C	ıt	0	trl+X
	Co	ру	0	trl+C
<u> </u>	Paste		⊂trl+V	
	Select All		Ctrl+A	
P	Pr	operties	. А	lt+Enter
	Co	Configuration		
	Us	ser Setting	J	
		opend sub elete subw		

The monitor screen properties dialog box is displayed.

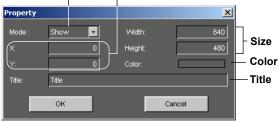
#### **Main Window**

Display position on the AddObserver Panel



#### **Sub Window**

Select whether to show the window on AddObserver Panel Display position on the AddObserver Panel



- 3. Enter values for the width and height to change the size of the screen.
- 4. Click OK.

2

#### **Changing the Grid Point Spacing**

Choose Arrangement > Grid, then select from None, 5 dots, and 10 dots.



#### Note .

- If you select None, no grid will be displayed. Select 5 dots or 10 dots to display a grid with 5, or 10 dots of space between the grid points.
- Also, when you select 5 dots or 10 dots, objects "snap" to position in 5, or 10 dot increments when they are moved or expanded.

#### Switching between Channel, Tag No., and Tag Comment Displays Choose View, then Channel, Tag No., or Tag Comment.



All meters on the monitor screen appear in the display mode selected.

#### Applying a Display Limit (Clip)

Applying a display limit prevents you from moving objects totally or partially off-screen. The limit is applied by default.

**1.** Choose Arrangement, then confirm whether the Limit command is selected or unselected (is preceded by a check mark or not).



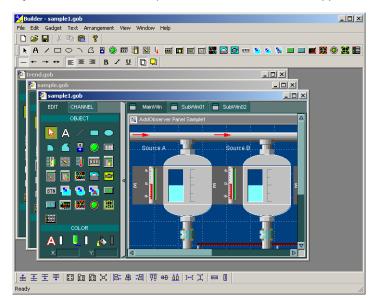
If Limit is unselected, you can select it by clicking on it in the menu.

2. Conversely, if Limit is selected, you can deselect it by clicking on it in the menu.

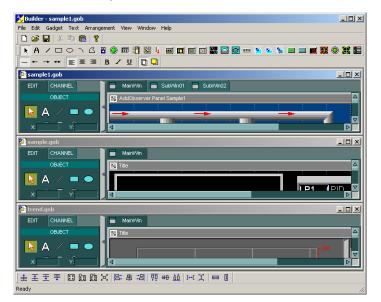
#### Choosing Cascade or Tile View Choose Window, then Cascade, or Tile.



If you select Cascade, all open monitor screens are overlapped, one on top of the other.

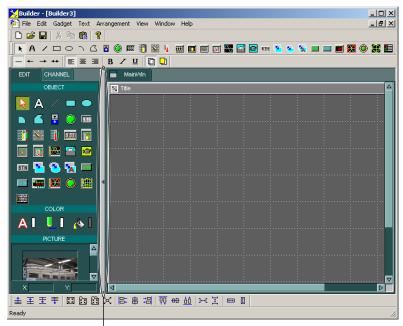


If you select Tile, all open monitor screens are resized and displayed so that their entire frames are lined up and visible on the screen.



#### Hiding and Revealing the Operation Panel

Click the curtain handle that separates the operation panel from the editing area. The operation panel is hidden. Click the curtain handle again to reveal the operation panel.





#### Arranging Icons Choose Window > Arrange Icons.

🔆 Builder - sample1.gob		
File Edit Gadget Text Arrangement View	Window	Help
	Casca Tile	de
	Arrang	ge Icons
$- + \rightarrow \leftrightarrow \equiv \equiv \equiv B \ Z \ \underline{U}$	1 Build	ler2
sample1.gob	🖌 2 sam	ple1.gob
EDIT CHANNEL	3 sam	ple2.gob

All currently minimized monitor screen icons are arranged along the bottom of AddObserver Builder's startup screen.

## 3.1 Checking and Fixing Data from Created Monitor Screens

## Procedure

#### **Checking Data**

1. Choose File > Check Data.



The data for the current screen being edited is checked.

2. If no errors are found, the following message appears.

Informat	ion X
٩	M3852 Data is OK.
	ок

#### Click OK.

If errors are found, the following message appears.

Informat	ion 🔀
•	M3851 Detected errors in the active file. See "~check.log" for detail.
	ОК

Click OK. Go to step 3.

**3.** Refer to the **Check.log** file in the AddObserver folder for information on the errors that were found, then fix the errors.

🗾 ~check - Notepad		<u> </u>
File Edit Format Help		
0000:Channel:Unused channels were defi 0001:Channel:Unused channels were defi 0002:Channel:Unused channels were defi 0003:channel:Unused channels were defi 0004:Channel:Unused channels were defi 0006:Channel:Unused channels were defi 0006:Channel:Unused channels were defi 0000:Channel:Unused channels were defi 0000:AnalogMeter:Channel undefined.	ned. Recommend you delete t ned. Recommend you delete t ned. Recommend you delete t ned. Recommend you delete t ned. Recommend you delete t	hem. hem. hem. hem.

4. Check the data again.

#### **Checking and Fixing Data**

The Check & Fix Data command causes the software to first check, then fix the data automatically. This operation deletes unused channels, and objects to which no channel is assigned.

1. Choose File > Check & Fix Data.

X	Build	er - [	Builder 1	]		
2	File	Edit	Shape	Text	Arran	gemen
	N	ew		C	rl+N	•
1	0	pen		Ct	rl+0	Ë,
	C	lose				Ľ
	Sa	ave		C	rl+S	] Tit
	Sa	ave As				
	0	utput.				
	C	heck D	ata			
	C	heck 8	Fix Data	i		
	1	sampl	e2.gob			
	2	sampl	e1.gob			•••
	E	xit				

The following message is displayed.

Informati	ion X
٩	M3861 Checks data for errors, and fixes them. This process deletes unused channels, and deletes or fixes gadgets to which no channel has been assigned Do you wish to contine ?
	OK Cancel

To continue with the operation, click **OK**.

2. If no errors are found, the following message appears.

Information 🔀		
٩	M3863 No errors found.File is OK.	
	ОК	

If errors are found, the following message appears.

Information			
٩	M3862 Some errors were found in the active file, and were fixed.		
	ОК		

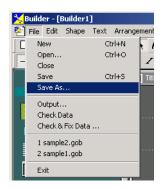
3. Click OK.

# 3.2 Saving Monitor Screens and Outputting Files

#### Procedure

#### **Saving New Monitor Screens**

1. Choose File > Save As.



The Save As dialog box is displayed.

Save As					? ×
Save in: 🔁	DAQOBSERVER	•	+ 🗈 (	* 🖩	
hosts Picture sample1.gr sample2.gr					
File name:	Builder1			Save	
Save as type:	Gadget File(*.gob)		•	Cance	<u>.</u>

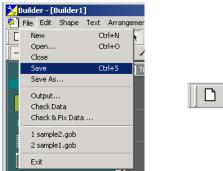
- 2. Enter or select the location, file name, and file type.
- 3. Click Save.

#### Note \_

When a screen is saved, two types of monitor screen files are created; a .gob file for monitor settings, and a .cob file for configuration. The .gob and .cob files exist as a pair. Do not delete or rename .cob files.

#### **Overwriting Monitor Screens**

Choose File > Save, or click the Save button on the toolbar.

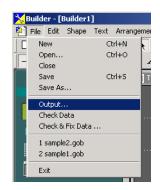




#### **Outputting Monitor Screen Files**

You can output the files (screen setting file, configuration file, and bitmapped images that appear in the screen) for the monitor screen currently being edited to a specified location.

1. Choose File > Output.



The Save As dialog box is displayed.

Save As					? ×
Save in: 🔂	DAQOBSERVER	• \$	- 🗈 🖻	∱ Ⅲ-	
hosts					
sample1.go					
sample2.go	b				
File name:	Builder1			Save	
Save as type:	Gadget File (*.gob)		•	Canc	el

- 2. Enter or select the location for output, file name, and file type.
- 3. Click Save.

# 3.3 Opening and Closing a Monitor Screen

#### Procedure

#### **Opening a Monitor Screen**

1. Choose File > Open, or click the Open button on the toolbar.

1	Builder - [Builder1]		
2	File Edit Shape	Text Arrangem	ent
	New	Ctrl+N	f
T	Open	Ctrl+O	7
	Close		👘 🗋 🚅 🔚 👗 🖻 🛍 🤶
	Save	Ctrl+S	
	Save As		
	Output		Open
	Check Data		
	Check & Fix Data		
	1 sample2.gob		The four most recently opened files appear at
	2 sample1.gob		the bottom of the file menu.
	Exit		Select a file from the list to open it.

The Open dialog box is displayed.

Open					? X
Look in: 🔁	DAQOBSERVER	•	] 🗕 🗈	📩 🛄	
hosts					
Picture					
sample1.g					
Samplez.g					
	0				
File name:	ļ			Ope	n
Files of type:	Gadget File (*.gob)		-	Cano	el
					/

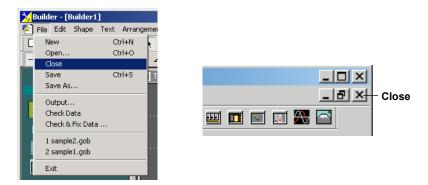
- 2. Enter or select the location, file name, and file type.
- 3. Click Open.

#### Note \_

Only the .gob files can be opened by the user.

#### **Closing Monitor Screens**

Choose File > Close, or click the Close button (X) on the right corner of the title bar.



# 4.1 List of Messages

The following messages may appear during operation of the software.

Code	Message	Related Section
M3801	File version wrong or new. Can't open file.	-
M3802	File type wrong or new. Can't open file.	-
M3851	Detected errors in the active file.	3.1
	See "~check.log" for details.	
M3852	Data is OK.	3.1
M3861	This process deletes unused channels, and deletes or fixes objects	3.1
	to which no channel has been assigned. Do you wish to continue?	
M3862	Found errors in the file and fixed them.	3.1
M3863	No errors found, file is OK.	3.1
M3871	If the host is deleted, all channels related to the host will also be	2.4
	deleted.	
	Do you wish to delete the host?	
M3892	A user name was not entered.	2.5
M3893	Duplicate computer names.	2.5

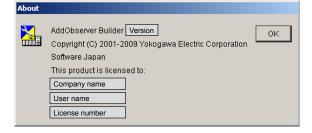
# 4.2 Checking the Version of the AddObserver builder

#### Procedure

1. Choose Help > About, or click the About Builder button on the toolbar.



The version number and other information is displayed.



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