

Technical Information

TI 04L65B01-02EN

GA10 Data Logging Software Setup Guide

SMARTDAC+TM



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GA10

Data Logging Software Setup Guide

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Introduction

This document describes the setup for GA10 Data Logging Software.

■ Notice

- The contents of this manual are subject to change without notice as a result of continuing improvements to the instrument's performance and functions.
- Every effort has been made to ensure accuracy in the preparation of this manual. Should any errors or omissions come to your attention, however, please inform Yokogawa Electric's sales office or sales representative.
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- The images used in this manual may differ from those that actually appear in the software. Such differences do not affect the procedural explanation.

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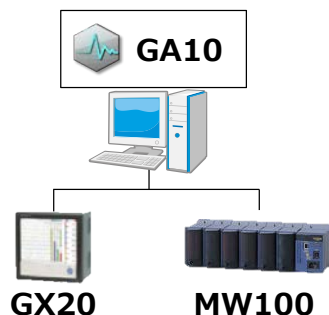
■ Scope of This Document

This document does not explain the basic operations of the Windows operating system (OS). For this information, read the relevant user's guide or related materials.

1. Basic Operation of GA10

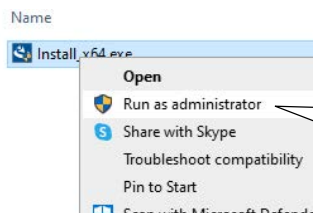
1.1 Collecting Data Easily (Simple Settings)

Let's actually connect devices to GA10 and collect data.



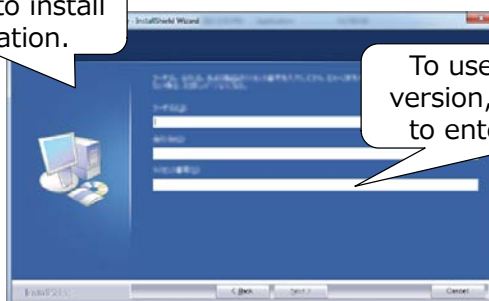
* To connect the UT, PR, or JUXTA series; other Modbus devices; or the WT series (excluding the WT3000/WT3000E), see Chapter 2.

Download GA10 from the Web site, and install it in your PC.



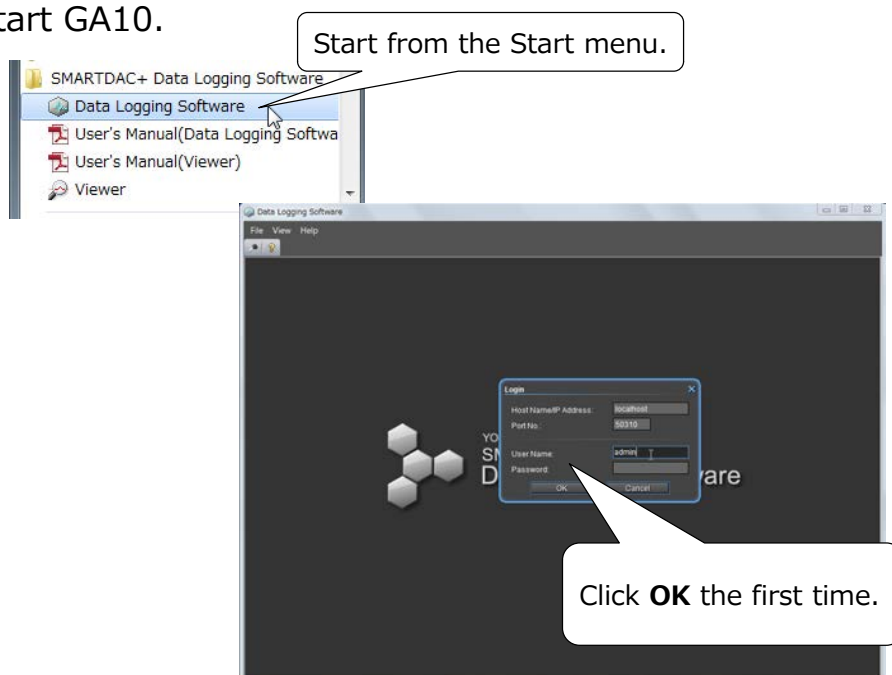
Right-click application file, and click **Run as administrator**.

Follow the wizard instructions to install the application.

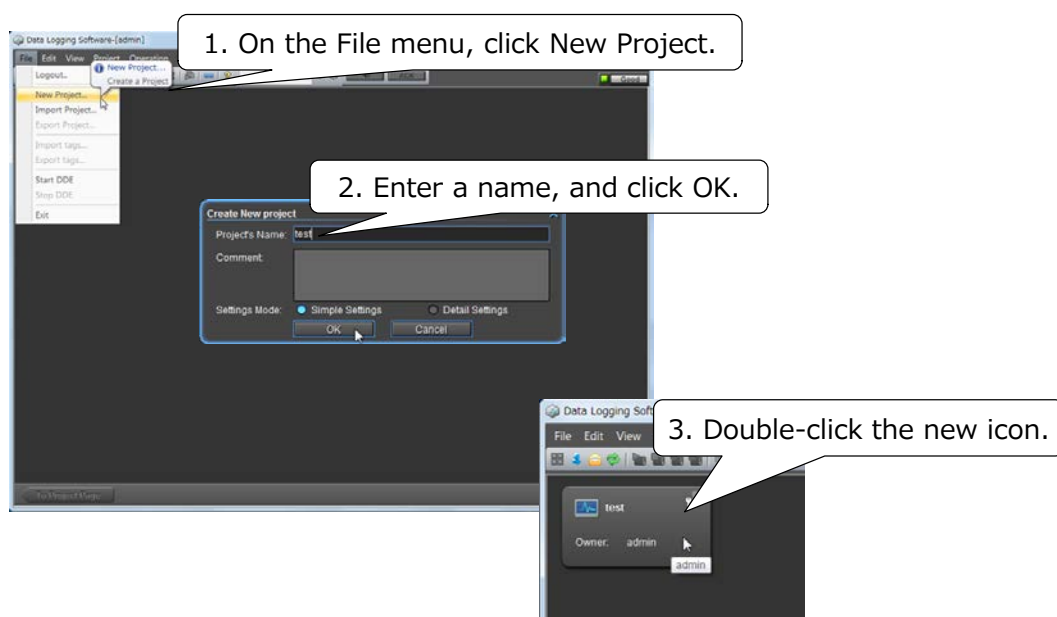


To use GA10 as a trial version, you do not need to enter a license key.

Start GA10.



Assign a name to the project.

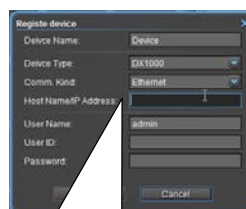
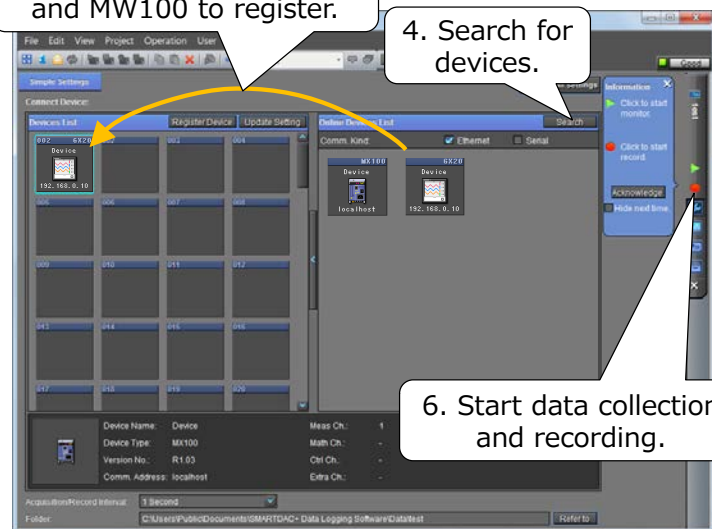


Simply register devices, and you can start collecting data.

5. Drag the detected GX20 and MW100 to register.

4. Search for devices.

Note: If you cannot search, use the Register Device button.



- Select the device name.
- Enter the IP address or serial settings.

6. Start data collection and recording.

If you want to connect the following devices, see the explanation provided later.

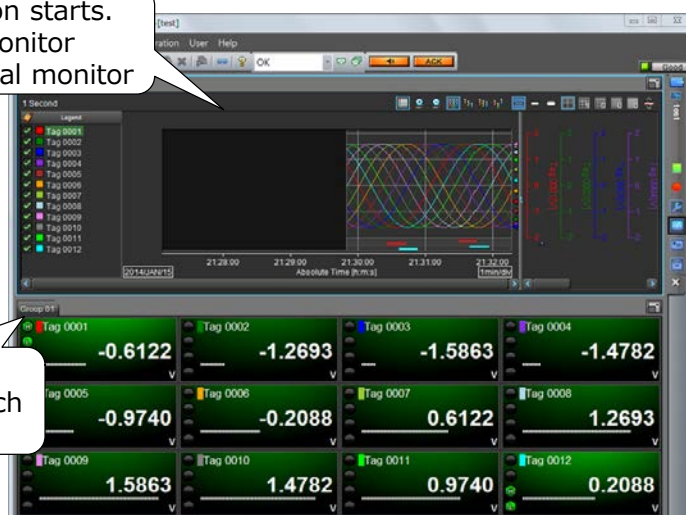
- PR, UPM, or JUXTA series and Modbus devices: Chapter 2
- WT series: Chapter 3.

- Monitor: Monitoring only
- Record: Saves data to file.

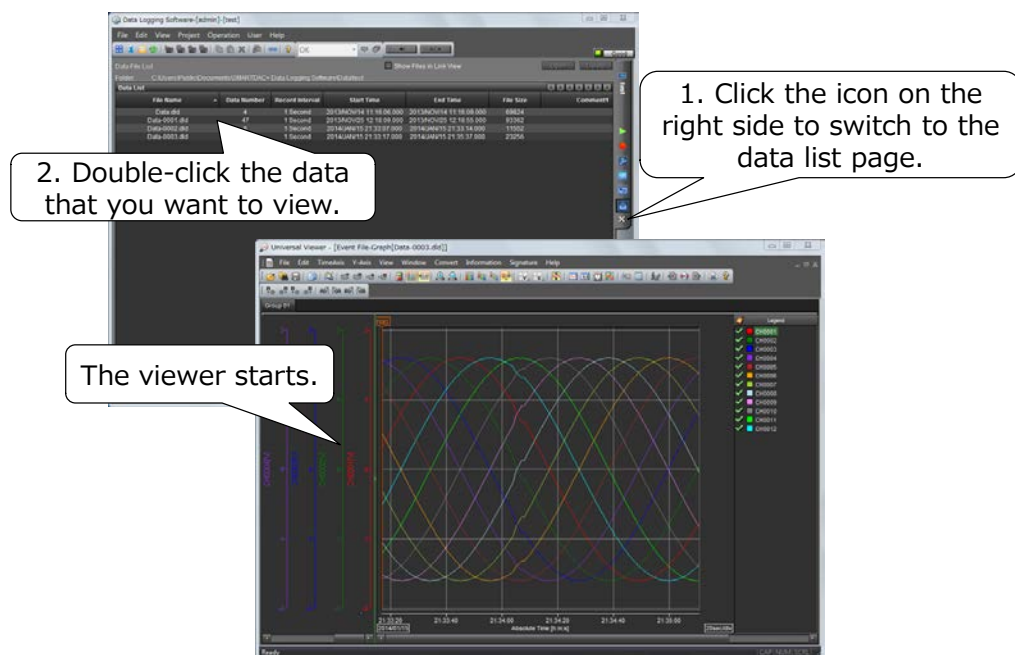
You can start collecting data by simply performing the aforementioned steps.

Data collection starts.
Top: Trend monitor
Bottom: Digital monitor

A group is created for each device.

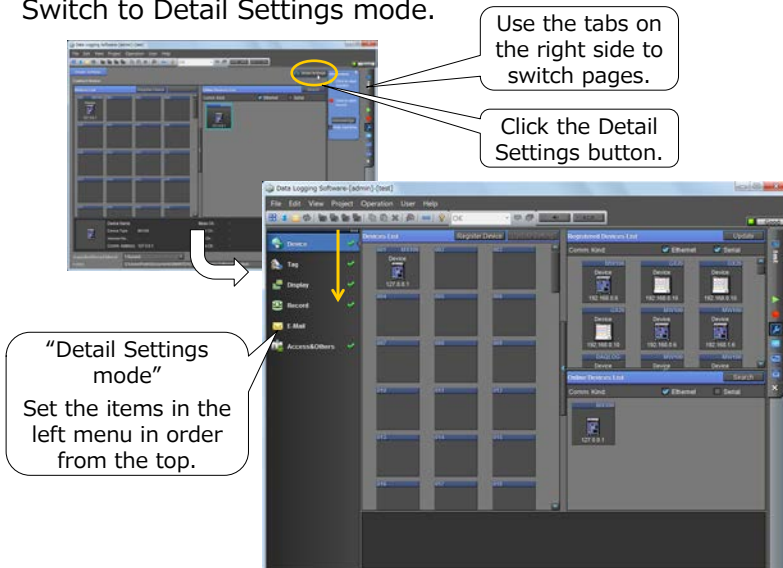


If you recorded data, you can view the data with the viewer.

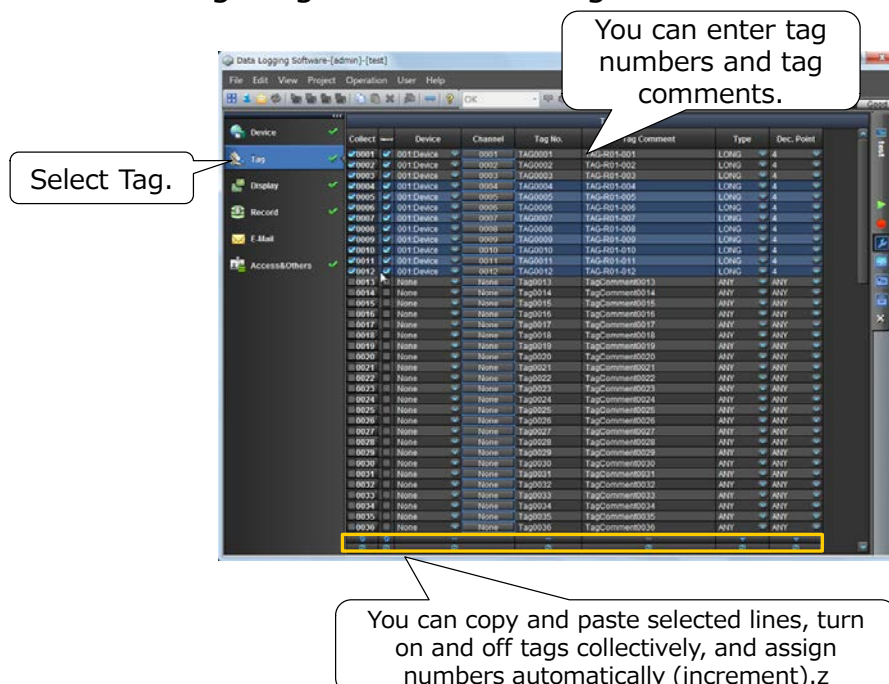


1.2 Collecting Data with Detailed Settings

Switch to Detail Settings mode.



You can change tag numbers and tag comments.



You can change tag numbers and tag comments.

Select Tag.

You can enter tag numbers and tag comments.

You can copy and paste selected lines, turn on and off tags collectively, and assign numbers automatically (increment).z

Zone

Trip

Zone: Specify the vertical waveform position.
Example: Specify 1 to 25, 25 to 75, and 75 to 100.

Trip: Displays a horizontal guideline
Example: Specify 5.0.

Selecting the data time

- We recommend you use "PC time," which does not divide the screen or files.
- Use "Device time" to back up data.



- Monitoring applications on a PC
- If you want data to be consolidated into a single file
- For replacing DAQLOGGER

	Timestamp	Collection and record interval	Backfill*	Monitor page (Trend/Alarm)	Data file
PC time	Time on the PC	Can be set freely	No	Displayed on a single page	Saved to a single file
Device time	Time on the device	Uses the interval on the device	Yes	Page divided by device or collection interval	File divided by device or collection interval

Data backup applications

- * Backfill operates under the following conditions.
- Applicable devices: GX/GP/DX/MV
 - Data is retained in the device's internal memory.
 - The device's FTP function is on.

Changing the monitor screen

- The monitor page can be divided into up to 16 monitor sets.

On the View menu, click Acquisition & Monitor.

Example 1: 4 monitor sets (horizontally divided into 2)



The available display types are trend, digital, meter, and alarm.

Check the preview.

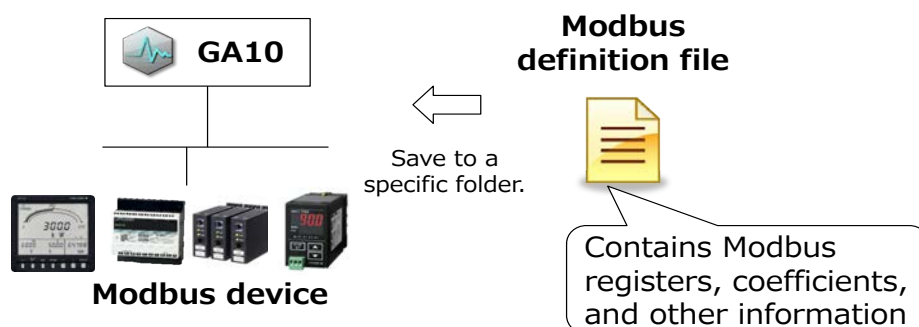
Example 2: 6 monitor sets (horizontally divided into 2)



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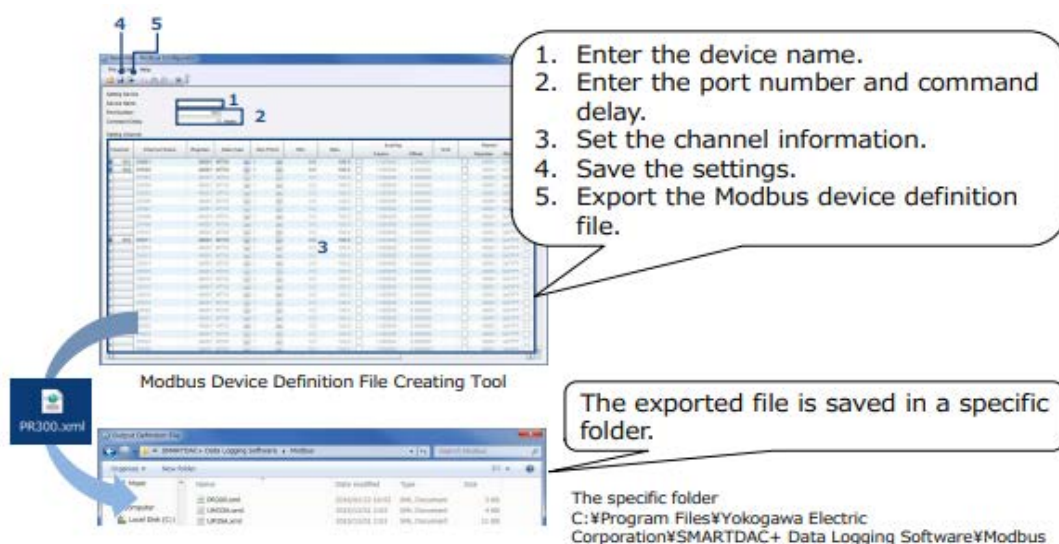
2. Connecting Modbus Devices

To connect a UT, PR, or JUXTA series device or other Modbus device, you need to register a “definition file” containing the device information in GA10.

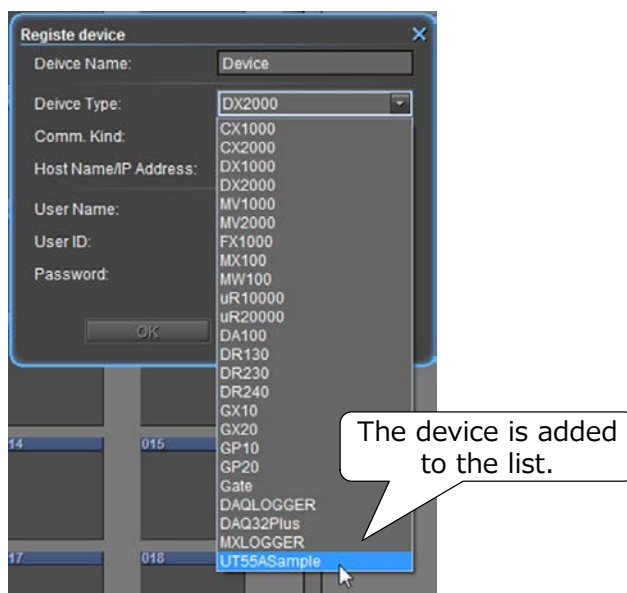


Creating a Modbus device definition file, and save it in a specific location.

You can use the dedicated Modbus Device Definition File Creating Tool to create the file.



The defined device can now be registered on the GA10 Setting Page.
The subsequent setting procedure is the same as in the normal case.



3. Connecting the WT series

Download GateWT for GA10, and use it to make the connection.

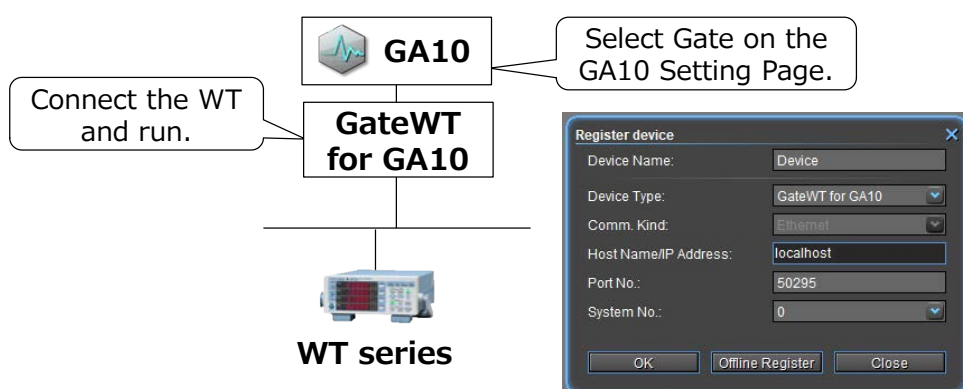
License: Free.

Applicable models: WT210/WT230/WT500/WT1800

WT310/330/310E/310EH/332E/333E

- The WT310/330 can be connected using the WT210/WT230 compatible command mode.
- The WT310E/WT310EH/WT332E/WT333E can be connected using the WT210/WT230 compatible command mode.
- WT3000/WT3000E can be connected without using GateWT.

Communication port: Ethernet or serial

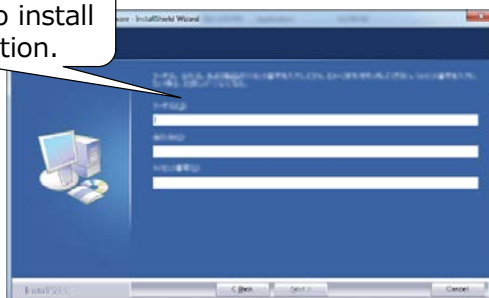


Install GateWT for G10

- Be sure to read "Readme.txt".
- Install GateWT for GA10.

Right-click Install.exe, and click **Run as administrator**.

Follow the wizard instructions to install the application.



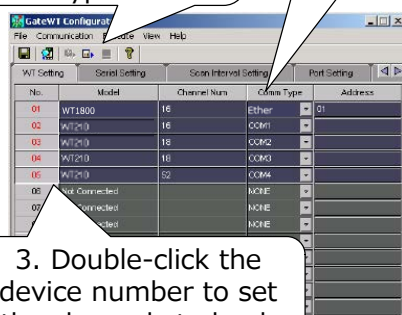
Start GateWT for GA10.

2. Select the device to automatically detect the device type.

1. Select the communication method.

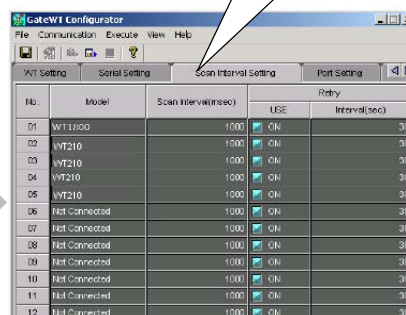
ETHER: Enter the address (IP address).
COM: Set on the serial setting tab in advance.

4. On the Scan Interval Setting Tab, set the scan interval (msec).



3. Double-click the device number to set the channels to load.

Switch tabs



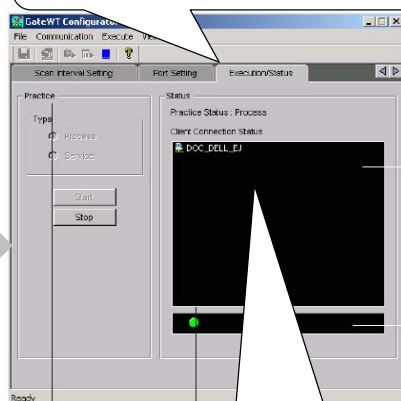
Switch tabs



When you finish the settings, register the device to GA10.

5. On the Execution/Status tab, click the process execution button.

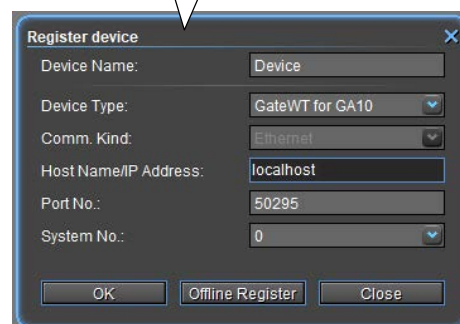
Switch tabs



6. Check that the PC information is added to the connection status.

7. Register the device on the GA10 Setting Page.

Device type: GateWT for GA10
IP address: localhost



8. Start data collection and recording on GA10.

4. For DAQWORX Users

If you are using the logger software, you can replace it with GA10

– Applicable products : DAQLOGGER, DAQ32Plus, MXLOGGER

➡ See 4.1

If the following condition applies, use DAQWORX and GA10 together.

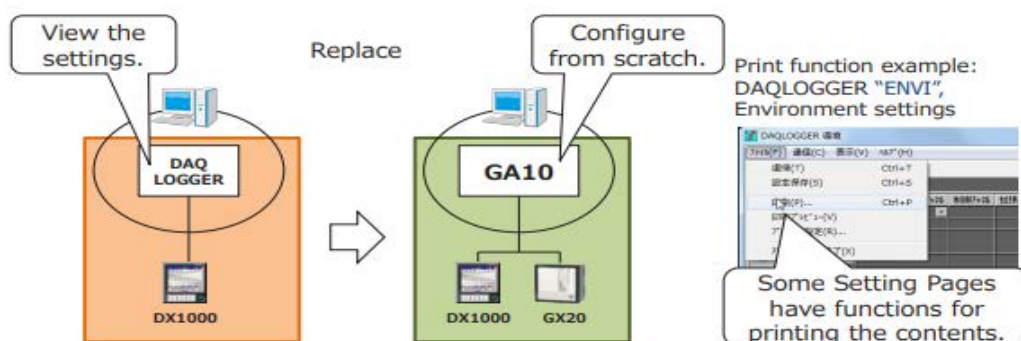
➡ See 4.2

Item	Condition
OS	Windows XP or earlier is in use.
Device	A legacy model or a model with an older version not supported by GA10 is in use.
Communication	GP-IB communication is in use.
Function	The following DAQWORX function is in use. - Event processor (e-mail transmission, FTP transfer, html conversion, etc.) - File utility (file split and merge) - Math channels, AO channels, or DO channels are in use. (Mainly, MXLOGGER)
Software	The following software application is in use. - AddTrigger - AddObserver - DataBrowser

4.1 Replacing DAQWORX

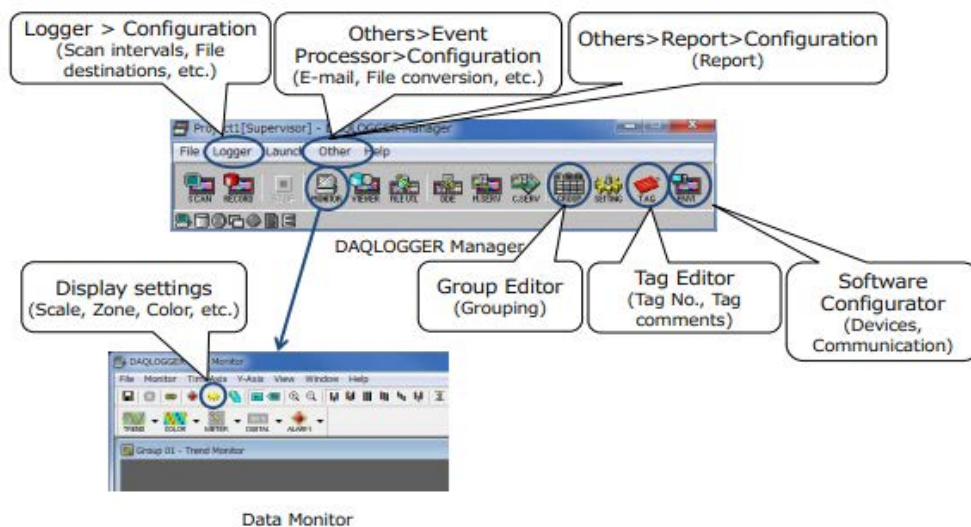
Check the settings of the logger software that you are using, and configure GA10 from scratch.

It is convenient to use the print function to view the settings.



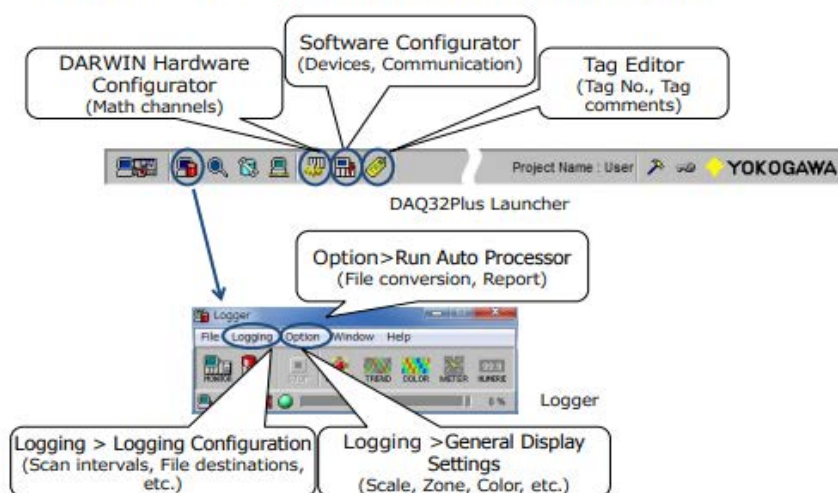
- DAQLOGGER

You can view the settings in the following locations.



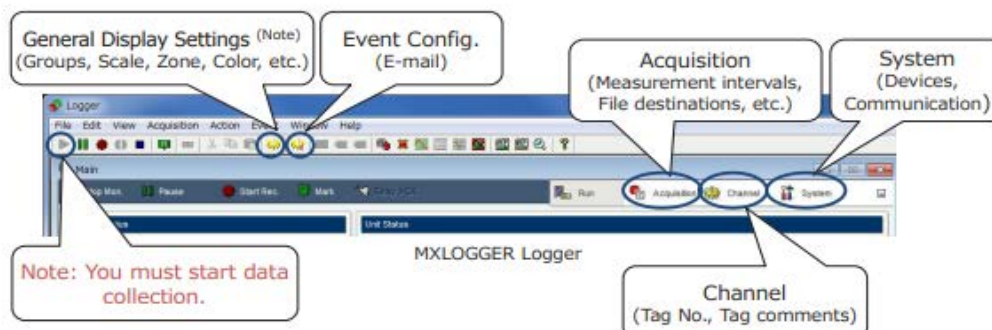
- DAQ32Plus

You can view the settings in the following locations.



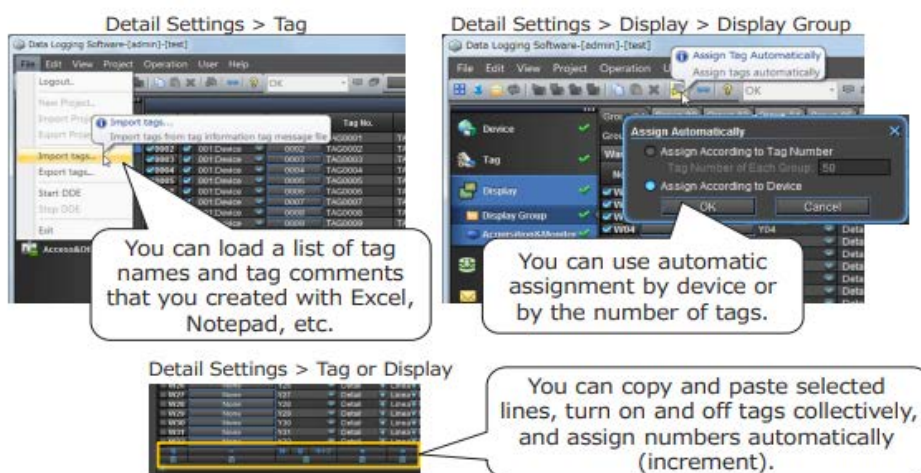
- **MXLOGGER**

You can view the settings in the following locations.



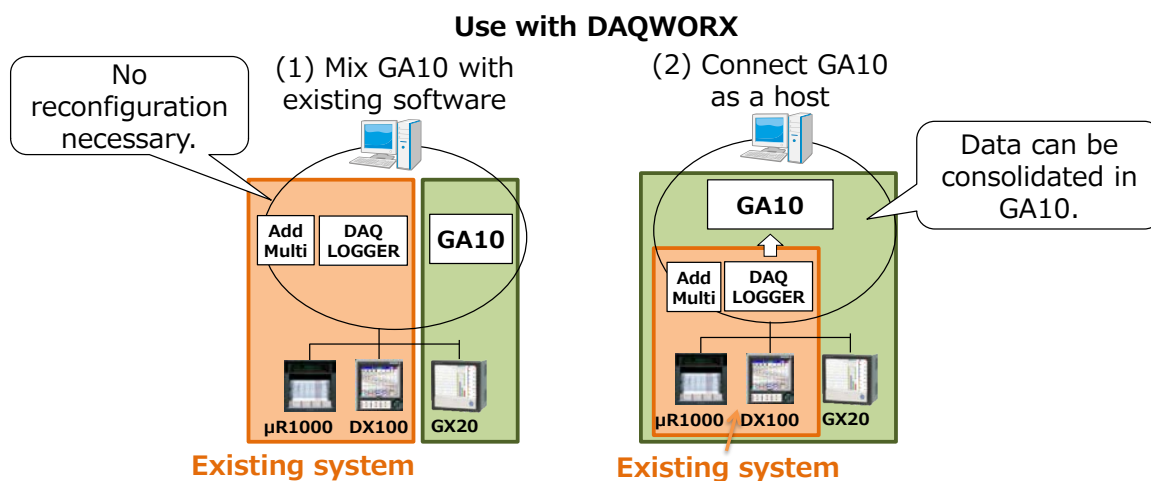
- **GA10**

- Configure from scratch.
- You can reduce the burden of configuration by using the GA10 tag import feature, tag auto assignment feature, and the Action bar.

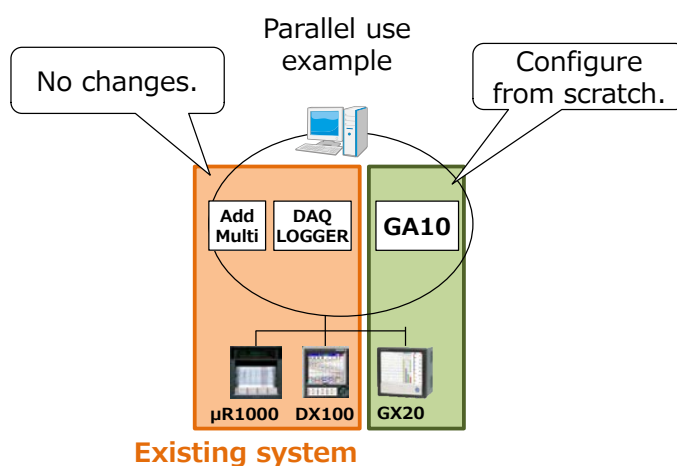


4.2 Using DAQWORX with GA10

1. Parallel use You can use the current configuration and add GA10.
2. Host connection By integrating GA10 as a host to DAQWORX, collected data can be consolidated in GA10.

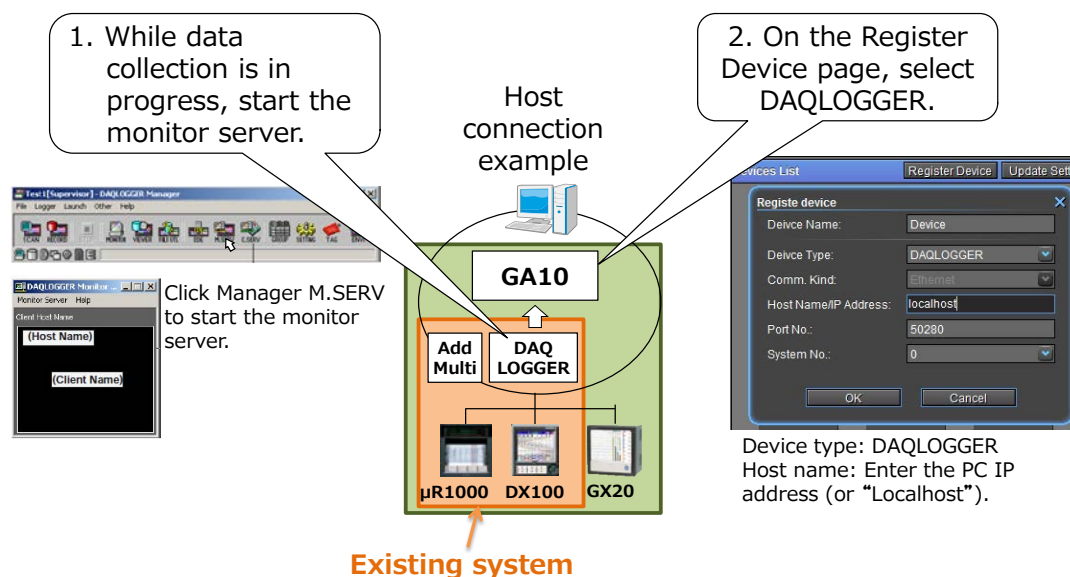


1. Parallel use
Install GA10 in the PC that you are using, and configure from scratch.



2. Connect GA10 as a host

- Data the DAQWORX Data Logger is collecting will be consolidated in GA10.
- Tags that you set in the logger software are automatically reflected in GA10.



4.3 Comparative Table of DAQWORX and GA10

		DAQLOGGER	DAQ32Plus	MXLOGGER	GA10
Basic features	Connectable devices	Many devices	Darwin	MX100	Many devices
	Number of device connections	32	1	20	100
	Number of measurement channels	1600ch	300ch	1200ch	2000ch
	Number of math channels	No	60ch	240ch	(TBA)
	Collection (scan) interval	1 s or more	0.5 s or more	10 ms or more	100 ms or more (10 ms or more)*
Logging	Trigger acquisition	Option	Option	Option	Yes
	Collection in groups (multilogging)	Option	Option	Option	Yes
Data processing (event processor)	Auto data conversion	Yes	Yes	Yes	Yes
	e-mail transmission	Yes	Yes	Yes	Yes SMTP authentication support
	FTP transfer	Yes	Yes	Yes	No
	Simple report output	Yes	Yes	No	No
Monitoring function	Remote monitoring (client)	Option	Option	Option	Option
	Graphic monitoring	Option	Option	Option	Option
Device configuration/control	Device configuration	Yes	Yes	Yes	Standard software
	IO/AO module control	No	Yes	No	No
Utility	File merge, split, reconfigure	Yes	Yes	Yes	No
User privilege	User privilege	No	No	No	Yes
Other	DDE server	Yes	Yes	Yes	Yes

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Revision Information

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Jan. 2014 1st Edition

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Improvements to descriptions.

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