

Mitsubishi Programmable Controller High Speed Data Logger Module Quick Start Guide

Let's Start Logging Data!

START

Speedy problem analysis at all stages starting
from data sampling to report creation



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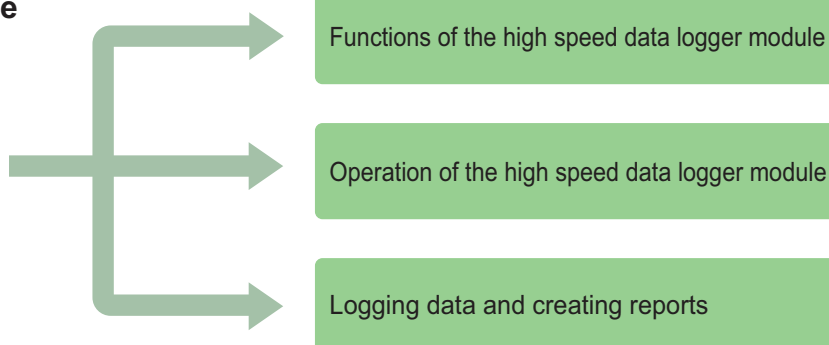
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Introduction

This Quick Start Guide explains the basic procedures for first-time users of the high speed data logger module.

Quick Start Guide



Precautions

Thoroughly read "SAFETY PRECAUTIONS" found in the QCPU User's Manual before using programmable controllers. Please pay careful attention to safety and handle the products properly.

Related manuals

The following manuals are related to the products introduced in this guide.

- High Speed Data Logger Module User's ManualSH-080818ENG
- GX LogViewer Version1 Operating ManualSH-080915ENG
- QCPU User's Manual (Hardware Design, Maintenance and Inspection).....SH-080483ENG
- GX Developer Version8 Operating ManualSH-080373E
- GX Works2 Version1 Operating Manual (Common)SH-080779ENG

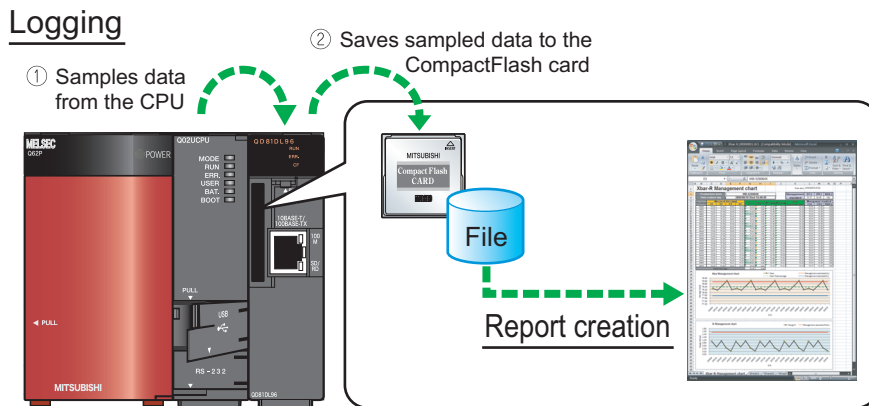
How to read this guide

The following table shows the symbols used in this guide with descriptions and examples.

Symbol	Description	Example
	Remarks	When using the report creation function, the data logging file format must be set to "Binary file".
[]	Menu names on the menu bar ([] → [] indicates drop-down menus.)	Select [Online] → [Transfer Setup].
	Buttons on the screen	Click the button.

Functions of the high speed data logger module

The high speed data logger module is a module that logs (records and saves) sampled programmable controller CPU data and saves them to a CompactFlash card as a file. Reports can be created from the logged file in Excel format.



Functions

'Data logging', 'Event logging', and 'Report' are the three major functions of the high speed data logger module.

- | | | |
|---------------|---|--|
| Data logging | : | A function to log programmable controller CPU data at the specified data sampling interval. |
| Event logging | : | A function to monitor data sampled from the programmable controller CPU and log occurred events. |
| Report | : | A function to create reports with values and graphs obtained from data logging files and data sampled by the programmable controller CPU. The Excel layout for the report needs to be configured in advance. |

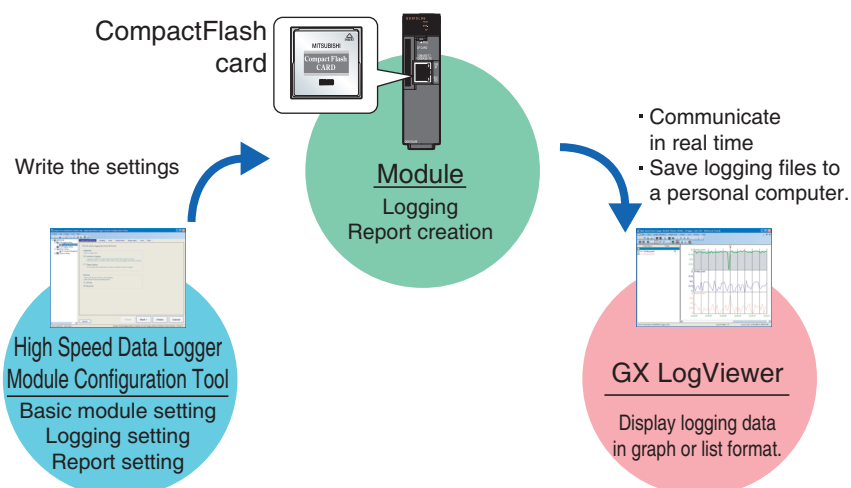
The following are the two data logging methods:

- | | | |
|--------------------|---|---|
| Continuous logging | : | Continuously logs data at the specified data sampling interval, and creates data logging files. |
| Trigger logging | : | Logs data before and after the trigger occurrence (establishment of specified condition), and creates data logging files. |

High speed data logger module and relevant tools

The following are the relevant tools of high speed data logger module.

- 'High Speed Data Logger Module Configuration Tool' to configure settings of high speed data logger module.
- 'GX LogViewer' to display logged data.

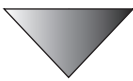


Operation of the Operating high speed data logger module

Use this guide to understand the operation of the high speed data logger module by actually configuring the 'trigger logging', 'continuous logging', and 'report' settings.

 Descriptions in this guide

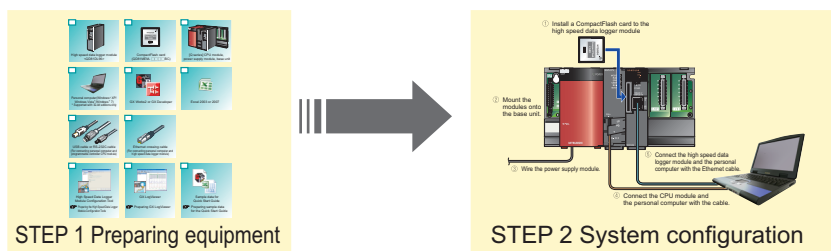
Page	Description
Preparation	Preparing for operation
P4-	This section explains equipment used in this guide and the system configuration.



Page	Introduced function	Description
CASE 1	Trigger logging	Logging data before and after trigger occurrence
P7-		This section uses an example to explain the trigger logging function and how to confirm logged data.
CASE 2	Continuous logging report	Creating reports from continuously logged data
P16-		This section uses an example to explain the continuous logging function and report creation.

Preparing for operation

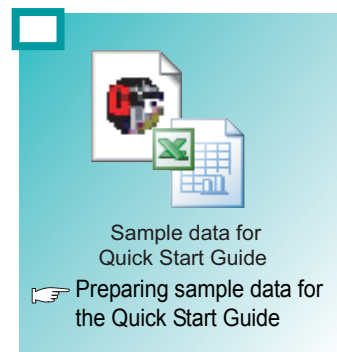
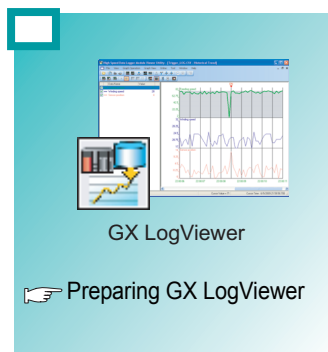
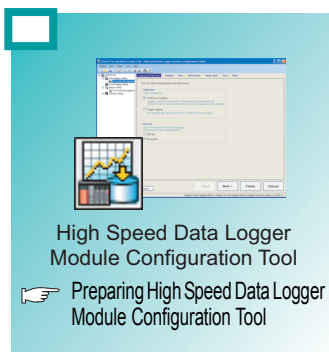
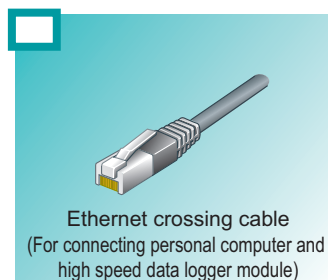
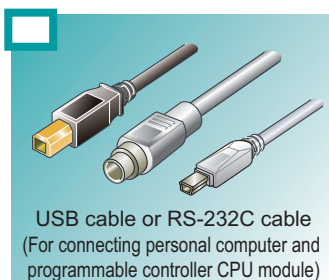
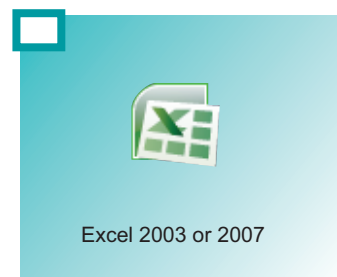
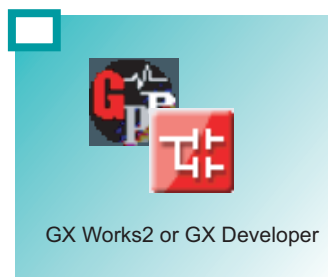
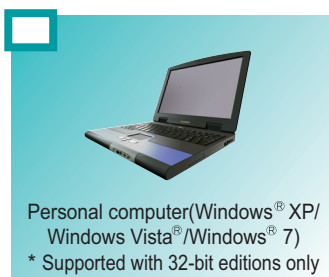
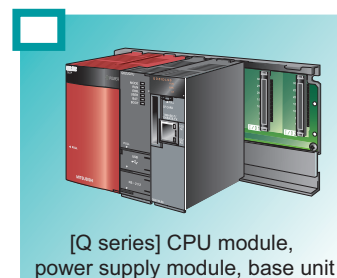
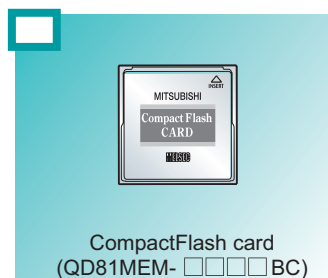
This section describes the preparation for operations instructed in CASE 1 and CASE 2.



STEP 1 Preparing equipment

Prepare the equipment and software needed in CASE 1 and CASE 2.

Items to prepare



■ Preparing High Speed Data Logger Module Configuration Tool

For the acquisition of High Speed Data Logger Module Configuration Tool, contact your local Mitsubishi representative.

Please install the acquired tool.

■ Preparing GX LogViewer

For the acquisition of GX LogViewer, contact your local Mitsubishi representative.

Please install the acquired tool.

■ Preparing sample data for the Quick Start Guide

To obtain the sample data used in CASE 1 and CASE 2 in this guide, contact your local Mitsubishi representative.

Files included in sample data

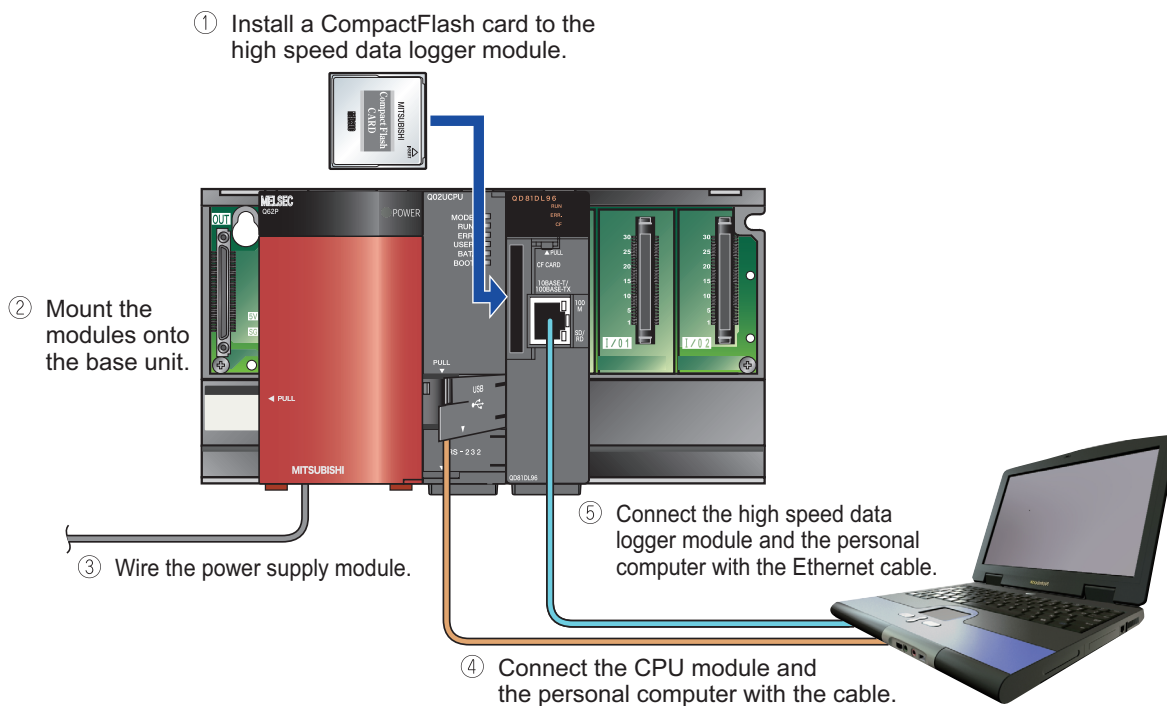
- Sequence program (I08147eng-program_a): A GX Developer project file to be used in CASE 1 and CASE 2.
- Layout file (I08147eng-layout_a.xls): An Excel format file for report to be used in CASE 2.
- Logging result file (I08147eng-CASE1_a.CSV): A CSV file whose data are logged according to the procedure in CASE 1.

STEP 2 System configuration

Configure the programmable controller system used in CASE 1 and CASE 2.

STEP 2-1 Mounting and wiring modules

Follow the instructions in order from ① to ⑤.



STEP 2-2 Activating the system

- ① Power ON the power supply module.
- ② Write the sequence program (I08147eng-program_a) to the CPU module using GX Developer or GX Works2.
- ③ Switch the mode of the CPU module to 'RUN'.

■ Precautions

The instructions in this guide are described according to the above programmable controller system configuration.

When designing and operating an actual system, read the manuals listed on the following page.

☞ Related manuals (P. 1)

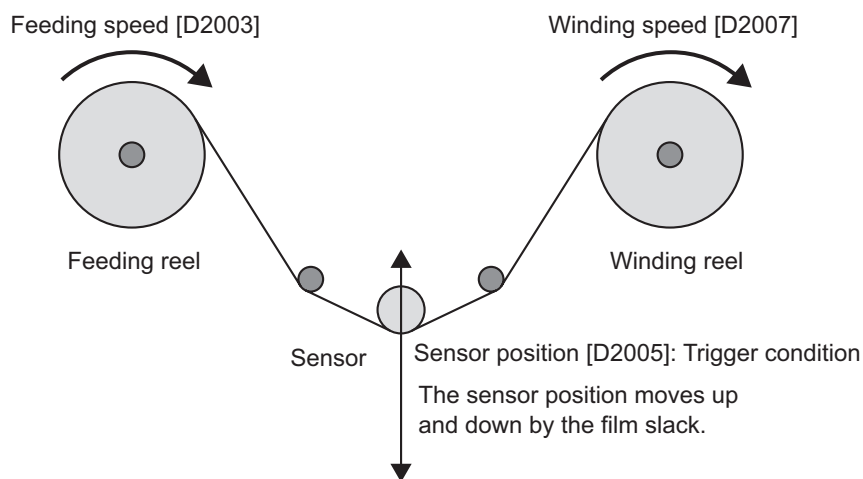
CASE 1 Logging data before and after trigger occurrence

This section explains how to perform the 'trigger logging' function using the equipment shown in the figure below as an example.

Figure

The following equipment is a winder for packaging film.

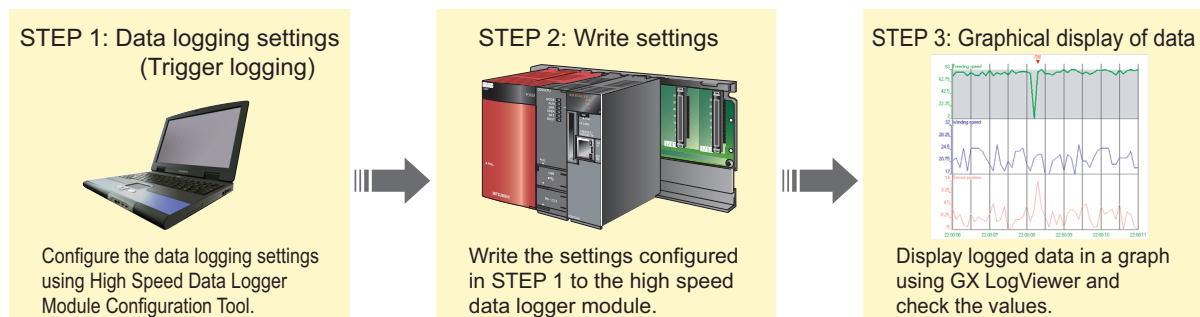
The sensor position moves up and down according to variation in the feeding reel speed, and a trigger (error) occurs when the allowable range is exceeded 100 lines (records) of data before and after the trigger occurrence are saved in a file.



Data logging settings

Target data	:	Feeding speed [D2003 (word [signed])], Winding speed [D2007 (word [signed])], Sensor position [D2005 (word [signed])]
Trigger condition	:	Sensor position > 5, sensor position < -5
Data sampling interval	:	0.1 second
Number of logging lines	:	100 lines before trigger occurrence, 100 lines after trigger occurrence
Saved file format	:	CSV file

Operation flow



STEP 1 Data logging settings (Trigger logging)

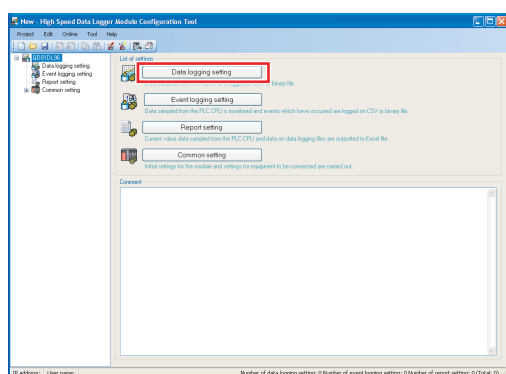
Configure the settings to log the programmable controller CPU data before and after the establishment of a trigger condition.

STEP 1-1 Start High Speed Data Logger Module Configuration Tool

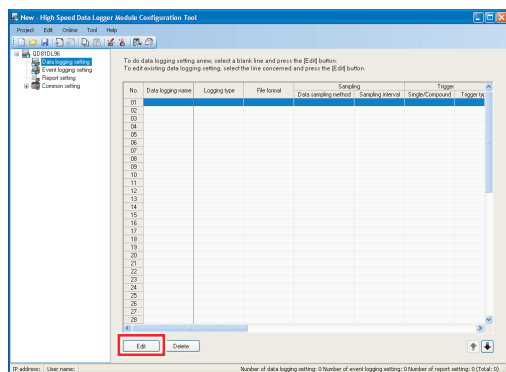
- From the Windows® start menu, select [All Programs] → [MELSOFT Application] → [Logging Function] → [High Speed Data Logger Module Configuration Tool].

STEP 1-2 Display the data logging setting screen

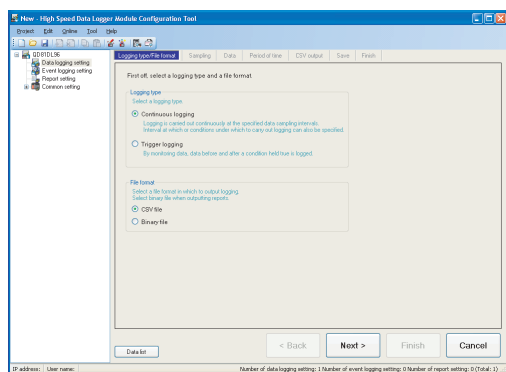
- Click the **Data logging setting** button.



- Click the **Edit** button.

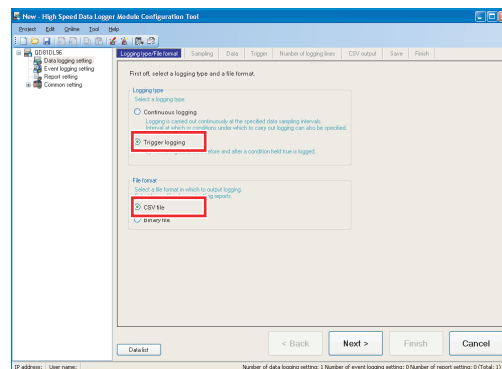


The wizard screen to configure the data logging settings is displayed.



STEP 1-3 Select the logging type and the file format

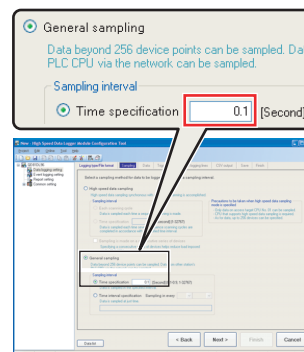
- Select "Trigger logging" for the logging type, and "CSV file" for the file format.



- Click the **Next >** button.

STEP 1-4 Select the data sampling method

- Select "General sampling", and enter "0.1" for "Time specification".



- Click the **Next >** button.



STEP 1-5 Set the target data

- 1 Specify the data to be logged.
Enter data as shown in the screen below.

No.	Data name	Dev
001	Feeding speed	D2003
002	Winding speed	D2007
003	Sensor position	D2005

Scaling	
/100	
/100	
/100	

Default values are automatically displayed for "Device" (Last), "Access target CPU", "Data type", and "Output Format".

- 2 Click the **Next >** button.

STEP 1-6 Configure the trigger settings

- 1 Select "Compound conditions".

The trigger types are displayed.

- 2 Click the **Edit** button.

The OR combine (No.1) dialog box for specifying conditions is displayed.

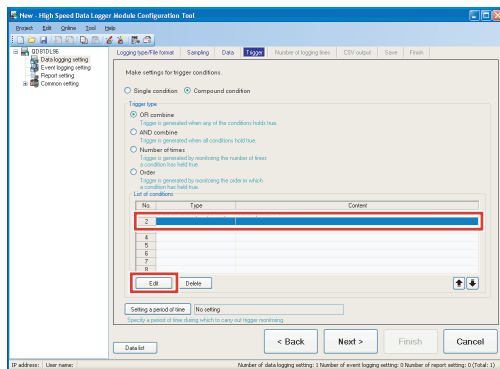
- 3 Specify the first trigger condition.
Enter data as shown in the screen below.

- 4 Click the **OK** button.

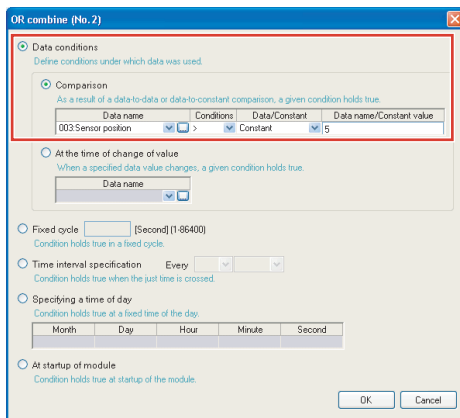
The specified condition is added to the list of conditions.

No.	Type	Content
1	Data conditions(Comparison)	Sensor position<5
2		

- 5 Select the second line in the list of conditions, and click the **Edit** button.



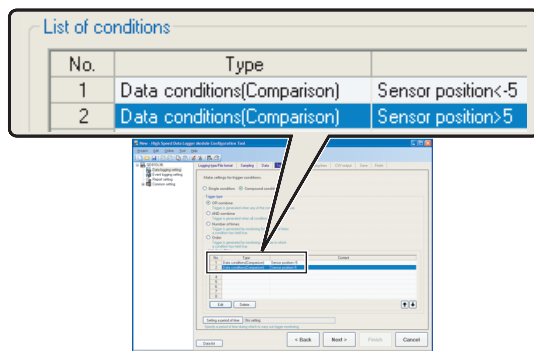
- 6 Specify the second trigger condition.
Enter data as shown in the screen below.



- 7 Click the **OK** button.



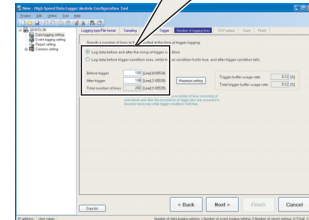
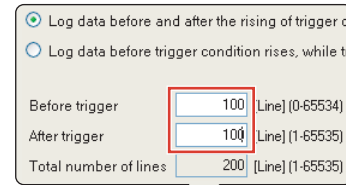
The specified condition is added to the list of conditions.



- 8 Click the **Next >** button.

STEP 1-7 Set the number of logging lines

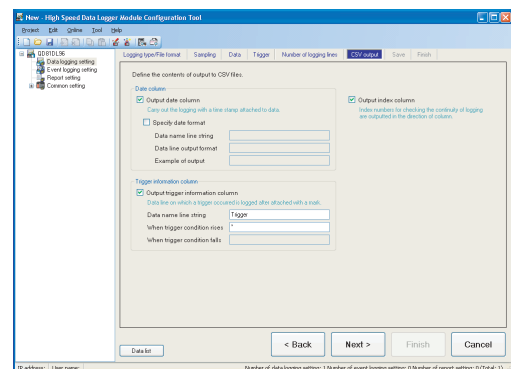
- 1 Enter "100" for "Before trigger", and "100" for "After trigger".



- 2 Click the **Next >** button.

STEP 1-8 Configure the CSV output settings

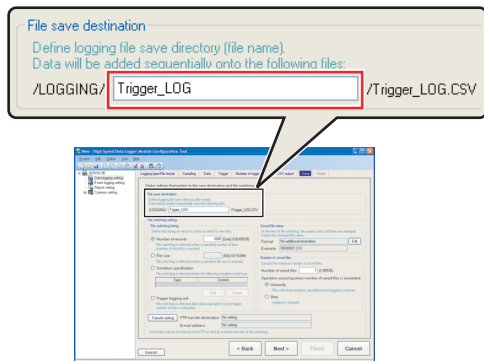
Use the default settings for the CSV output settings.



- 1 Click the **Next >** button.

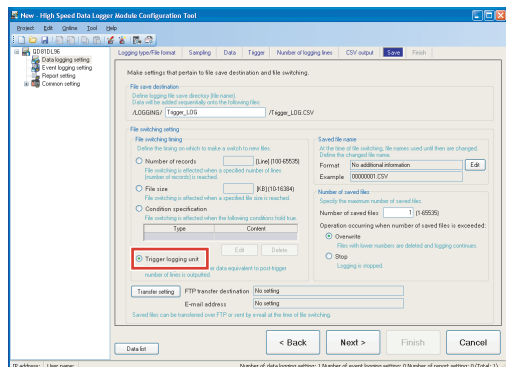
STEP 1-9 Configure the save settings

1 Enter "Trigger_LOG" for the file save destination.

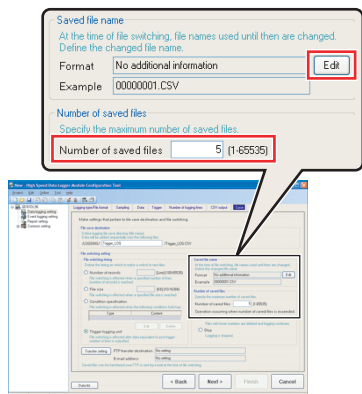


A folder with the name specified above is created on the CompactFlash card.

2 Select "Trigger logging unit" for the file switching timing.

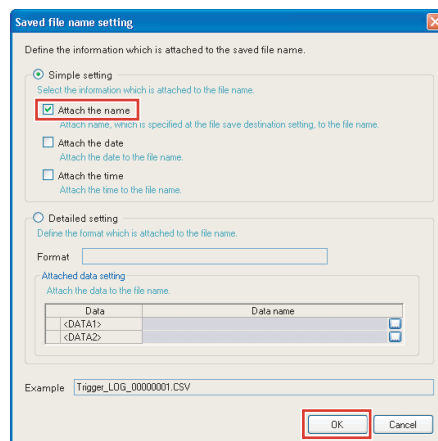


3 Enter "5" for the number of saved files and click the **Edit** button.



The Saved file name setting dialog box is displayed.

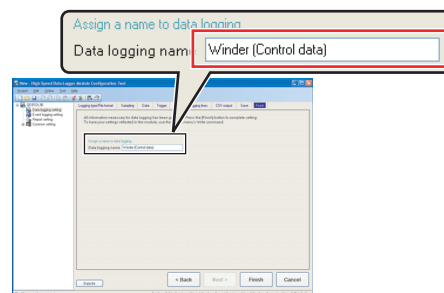
4 Check "Attach the name" and click the **OK** button.



5 Click the **Next >** button.

STEP 1-10 Enter the data logging name

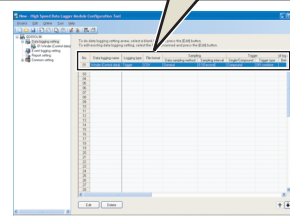
1 Enter "Winder (Control data)" for the data logging name.



2 Click the **Finish** button.

The configured settings are added to the data logging setting list.

No.	Data logging name	Logging type	File format	Data sampling
01	Winder (Control data)	Trigger	CSV	General



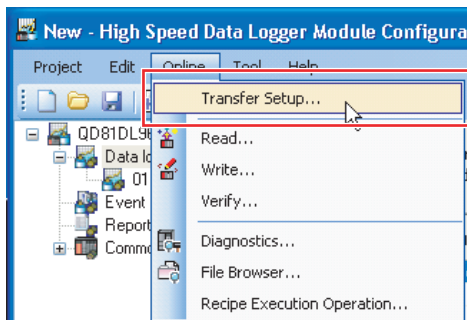
End

Write settings

Write the data logging settings configured in STEP 1 to the high speed data logger module.

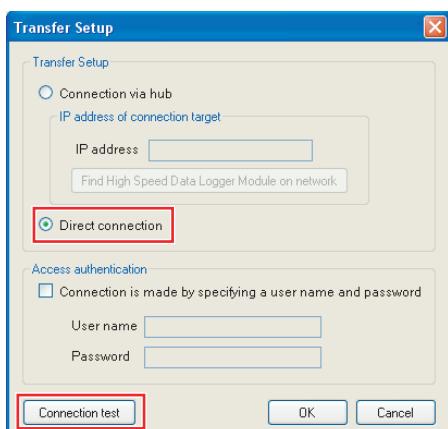
STEP 2-1 Specify the target module

- 1 Select [Online] → [Transfer Setup].

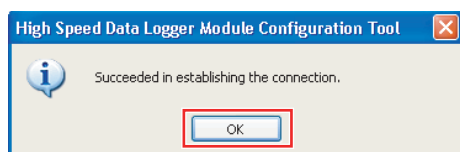


The Transfer Setup dialog box is displayed.

- 2 Select "Direct connection" and click the Connection test button.



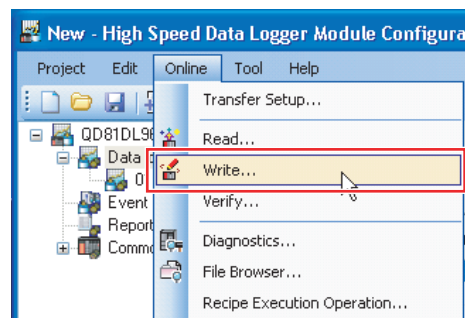
- 3 Click the OK button.



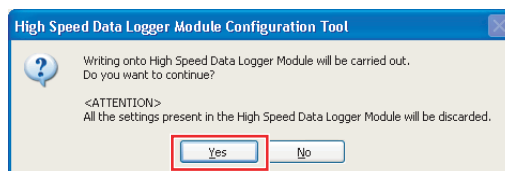
- 4 Click the OK button on the Transfer Setup dialog box.

STEP 2-2 Write the settings

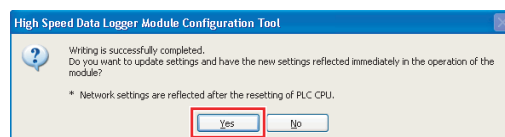
- 1 Select [Online] → [Write].



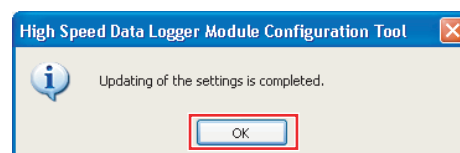
- 2 Click the Yes button.



- 3 Click the Yes button.



- 4 Click the OK button.



The data logging settings are written to the CompactFlash card installed on the high speed data logger module.

The data logging function starts immediately after the data are written because the CPU mode was set to 'RUN' at Preparation.

(☞ Activating the system (P. 6)).

▶ End

Graphical display of data

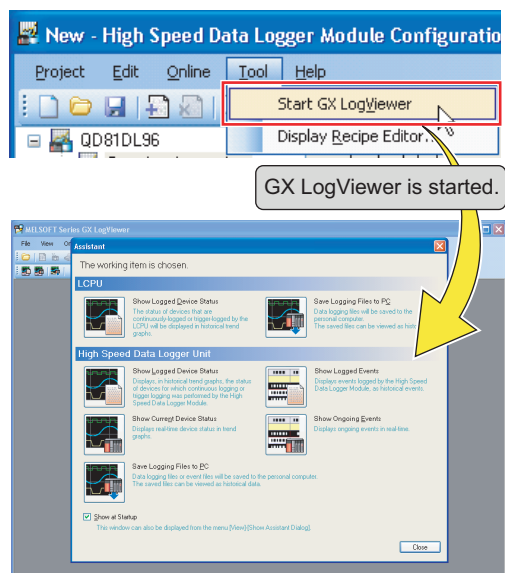
Display logged data in graphs using GX LogViewer.

STEP 3-1

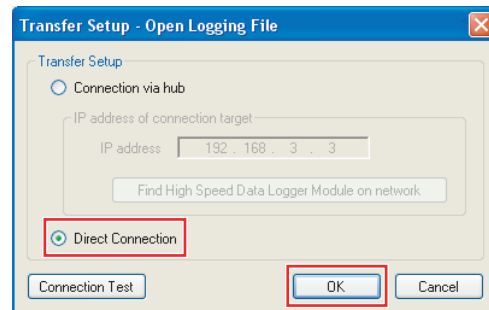
Start GX LogViewer

Start GX LogViewer from the High Speed Data Logger Module Configuration Tool.

- 1 Select [Tool] → [Start GX LogViewer].

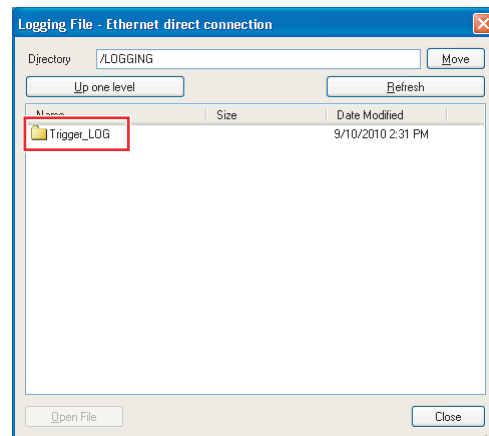


- 2 Select "Direct Connection" and click the button.



The Logging File dialog box is displayed.

- 3 Double-click each folder in the following order: "Trigger_LOG" → "00000001".



Click the button when the folder is not displayed in the list.

STEP 3-2

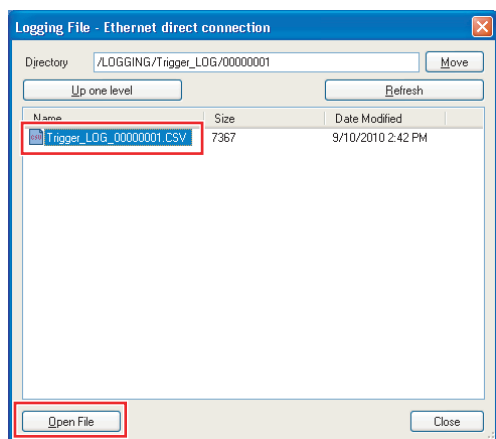
Specify the data to be displayed

- 1 Click the  button on the "Assistant" screen.

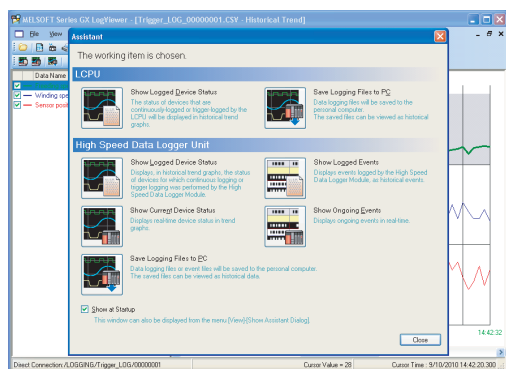


The Transfer Setup dialog box is displayed.

- 4 Select the displayed CSV file and click the **Open File** button.



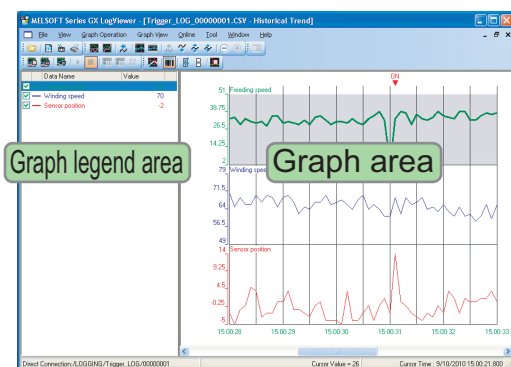
A list of data names and graphs are displayed behind the **Assistant** screen.



- 5 Click the **Close** button on the **Assistant** screen.



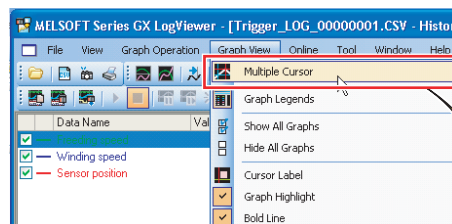
The data specified as target data in the data logging settings are displayed in the graph legend area and the graph area.



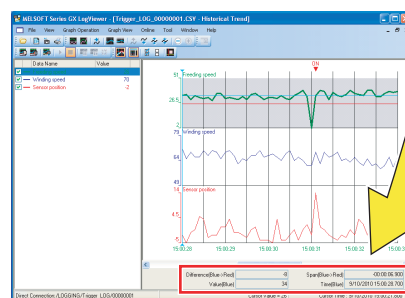
* Note that in this guide, the background color was changed to white in graph properties ([Graph View] → [Graph Properties]). Colors of graph lines can be also changed in graph properties.

STEP 3-3 Display multiple cursors

- 1 Select [Graph View] → [Multiple Cursor].

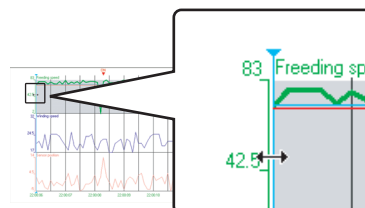


The difference information area is displayed.

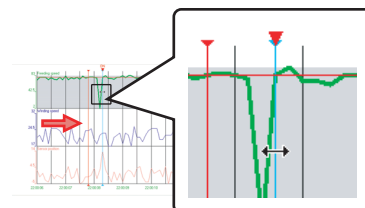


STEP 3-4 Check data using the cursors

- 1 Select a graph. Move the red and blue cursors, located at the left edge of the graph, to the desired positions and check their respective values.



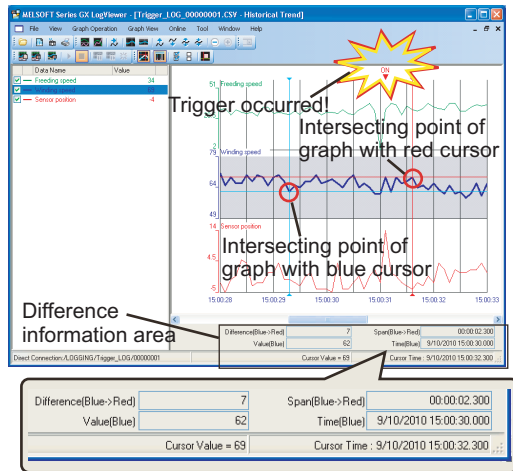
Move the red and blue cursors.



* For an easier operation, select "Move Red Cursor Here" or "Move Blue Cursor Here" from the menu displayed by right-clicking on a graph area.

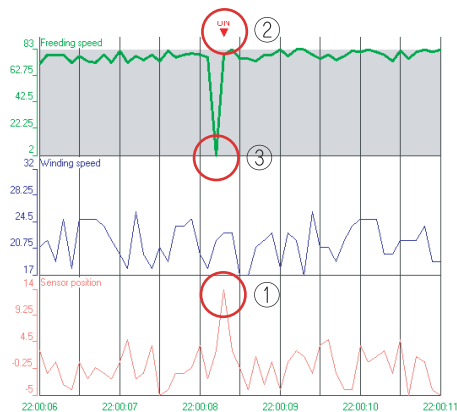
2 Check the cursor details displayed in the difference information area.

- The elapsed time and the value difference between the two cursors (blue to red) are displayed.
- In addition, the value and time of each cursor's position are also displayed.



3 Analyze the cause of error from the graphs

- The sensor position rose rapidly (①), and a trigger occurred (②).
- The feeding speed drastically decreased (③) immediately before the rise in sensor position, and thus, this could have caused the trigger.



Errors are primarily diagnosed by checking the data before and after the trigger occurrence.

▶ End

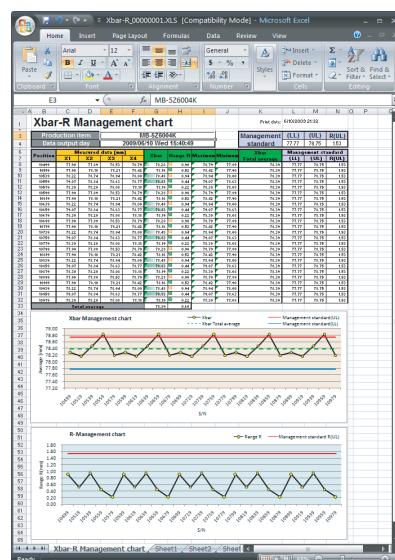
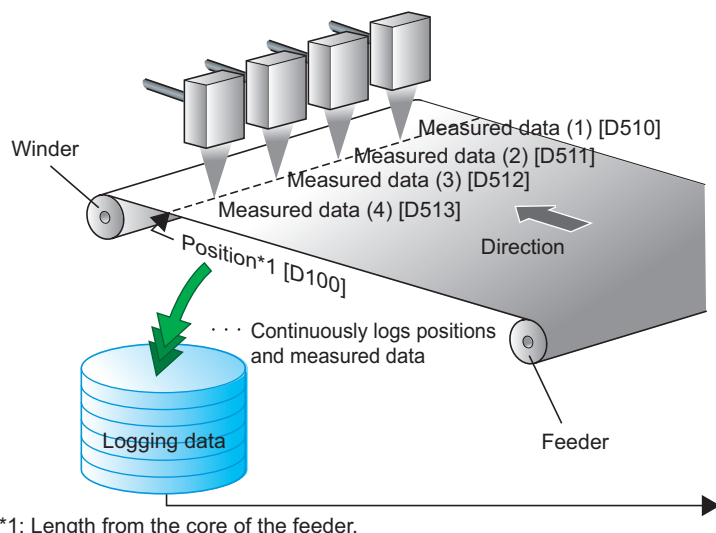
CASE 2 Creating reports from continuously logged data

This section explains 'continuous logging function' and 'report creation' using Xbar-R management chart as an example.

Figure

The thickness of the film (measured data) is measured at four points, and recorded in the report named Xbar-R management chart (Excel format).

(Production item: MB-5Z6004K [D502])



Data logging settings

Target data : Position [D100 (Double word [signed])],
Measured data (1) [D510 (Word [signed])], Measured data (2) [D511 (Word [signed])],
Measured data (3) [D512 (Word [signed])], Measured data (4) [D513 (Word [signed])]

Data sampling interval : 2 seconds

Saved file format : Binary file

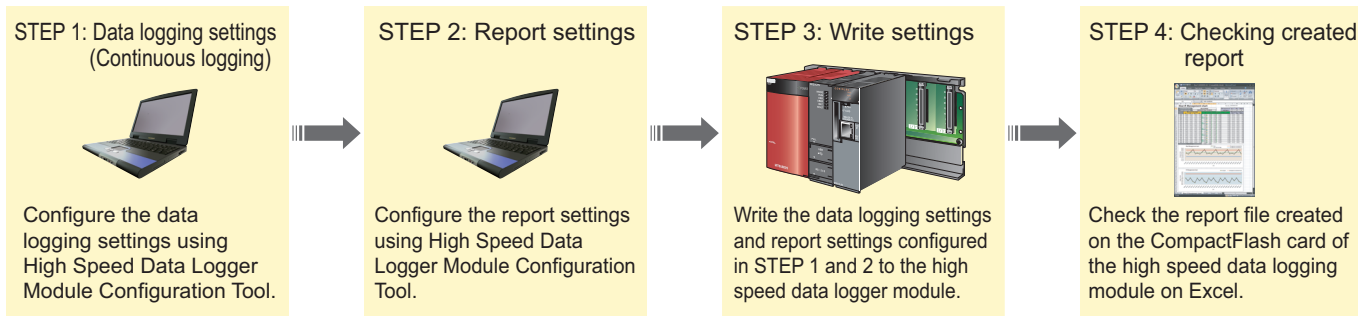
Report settings

Report output data : Target data, production item [D502 (String)], creation time

Number of logging lines in a report : 25

Report creation period : 50 seconds

Operation flow



STEP 1 Data logging settings (Continuous logging)

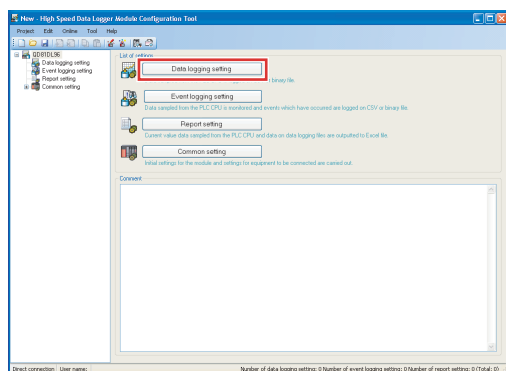
Configure the settings to log the programmable controller CPU data at the specified data sampling interval.

STEP 1-1 Start High Speed Data Logger Module Configuration Tool

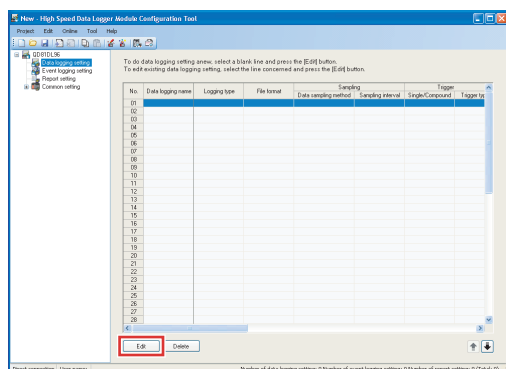
- From the Windows® start menu, select [All Programs] → [MELSOFT Application] → [Logging Function] → [High Speed Data Logger Module Configuration Tool].

STEP 1-2 Display the data logging setting screen

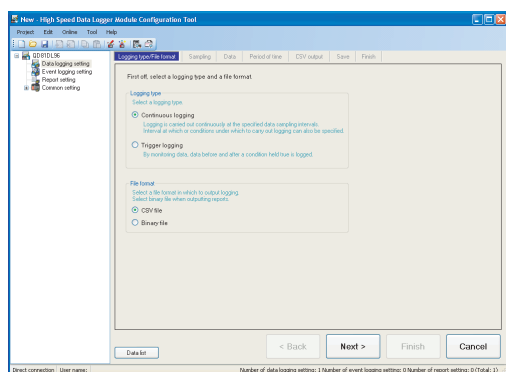
- Click the **Data logging setting** button.



- Click the **Edit** button.

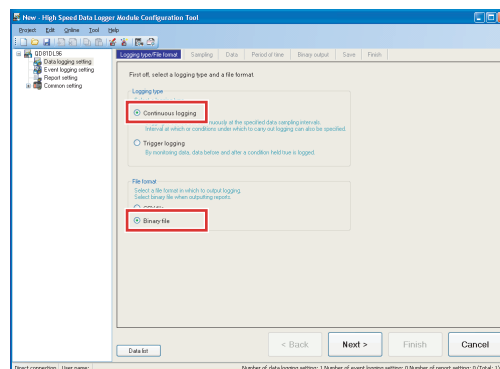


The wizard screen to configure the data logging settings is displayed.



STEP 1-3 Select the logging type and the file format

- Select "Continuous logging" for the logging type, and "Binary file" for the file format.

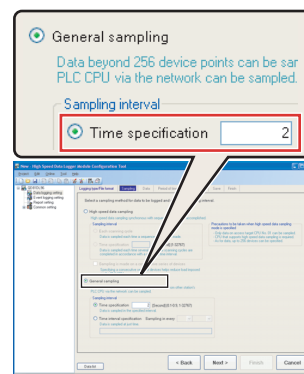


- Click the **Next >** button.

Remark
When using the report creation function, the data logging file format must be set to "Binary file".

STEP 1-4 Select the data sampling method

- Select "General sampling", and enter "2" for "Time specification".



- Click the **Next >** button.

STEP 1-5 Set the target data

To set the target data, specify devices individually, or specify consecutive devices in batch.

1 Enter the target data. (Individual)

Enter data as shown in the screen below.

The screenshot shows the 'Specify data to be logged' dialog box. The 'Data name' field is highlighted with a red box and contains the text 'Position'. The 'Device' field is also highlighted with a red box and contains 'D100'. A callout box points to the 'Data type' dropdown, which is set to 'Double word[signed]'.

Default values are automatically displayed for "Device" (Last), "Access target CPU", "Data type", and "Output Format".

2 Click the **Batch insert** button. (Batch)

Set the consecutive devices in batch.

The screenshot shows the 'Specify data to be logged' dialog box. The 'Batch insert' button is highlighted with a red box. The 'Data name' field is set to 'Position' and the 'Device' field is set to 'D100'.



The **Batch data insertion** dialog box is displayed.

3 Enter the information regarding the target data, and click the **OK** button.

Specify data as shown in the screen below.

Enter the data name after "Change" is checked.

The screenshot shows the 'Batch data insertion' dialog box. The 'Data name' field is set to 'Measured data'. The 'Device Head' is 'D510' and the 'Last' is 'D513'. The 'Change' checkbox is checked. The 'Access target CPU' is '01:Control CPU'. The 'Data type' is 'Word[signed]'. The 'Size' is '1024'. The 'Scaling' is '1/100'. The 'Output Format' is 'FLOAT[double precision]'. The 'Continuous settings' section shows 'Total number' as '4' and 'Interval' as '1'.



The specified data are added to the list.

No.	Data name	Device		Access target CPU	Data type
		Head	Last		
001	Position	D100	D101	01:Control CPU	Double word[signed]
002	Measured data(1)	D510	D510	01:Control CPU	Word[signed]
003	Measured data(2)	D511	D511	01:Control CPU	Word[signed]
004	Measured data(3)	D512	D512	01:Control CPU	Word[signed]
005	Measured data(4)	D513	D513	01:Control CPU	Word[signed]

The screenshot shows the 'Specify data to be logged' dialog box. The list of specified data is displayed in the 'Data name' column. The 'Batch insert' button is highlighted.

4 Click the **Next >** button.

STEP 1-6 Set the logging period

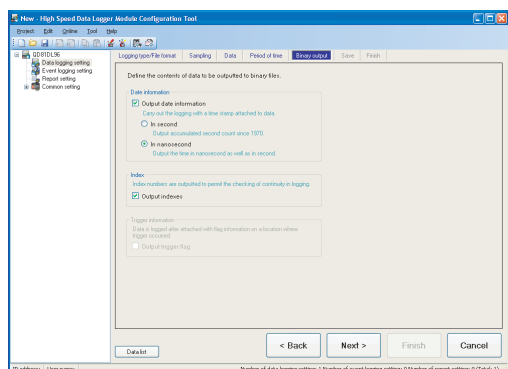
Use the default settings for the logging period.

The screenshot shows the 'Logging period' dialog box. The 'Specify a period of time' checkbox is checked. The 'Define period during which to carry out logging' section is visible.

1 Click the **Next >** button.

STEP 1-7 Configure the binary output settings

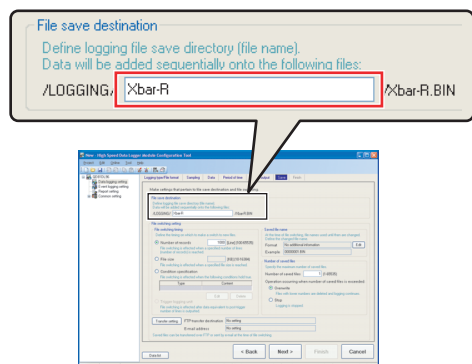
Use the default settings for the binary output settings.



1 Click the  button.

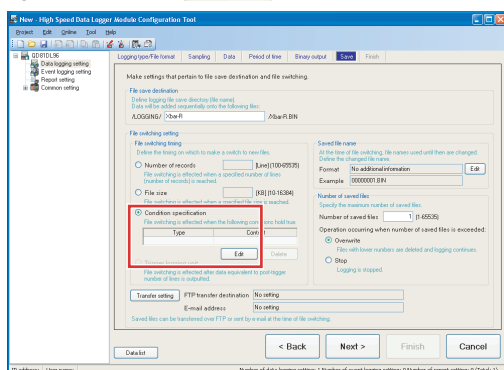
STEP 1-8 Configure the save settings

1 Enter "Xbar-R" for the file save destination.



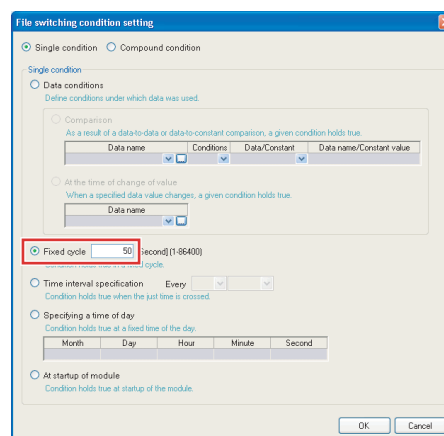
A folder with the name specified above is created on the CompactFlash card.

- 2 Select "Condition specification" for the file switching timing, and click the  button.

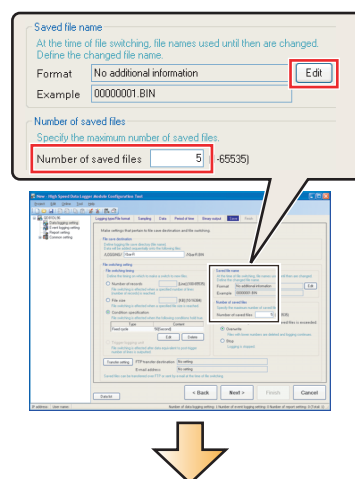


The File switching condition setting dialog box is displayed.

3 Select "Fixed cycle", enter "50", and click the  button.

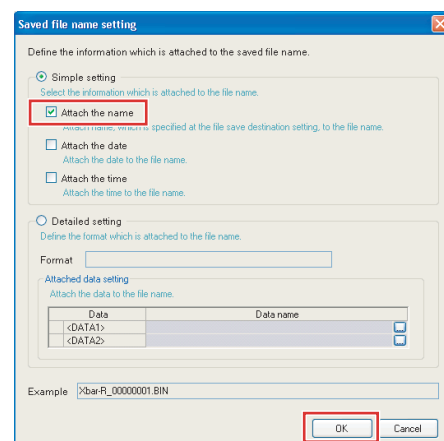


4 Enter "5" for the number of saved files and click the  button.



The Saved file name setting dialog box is displayed.

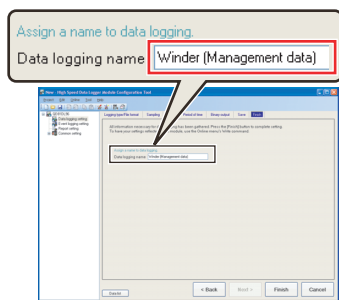
5 Check "Attach the name" and click the  button.



6 Click the  button.

STEP 1-9 Enter the data logging name

- 1 Enter "Winder (Management data)" for the data logging name.

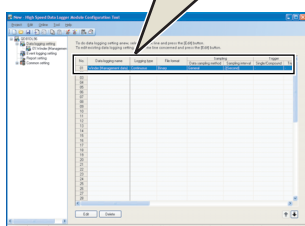


- 2 Click the **Finish** button.



The configured settings are added to the data logging setting list.

No.	Data logging name	Logging type	File format	Data sa
01	Winder (Management data)	Continuous	Binary	General



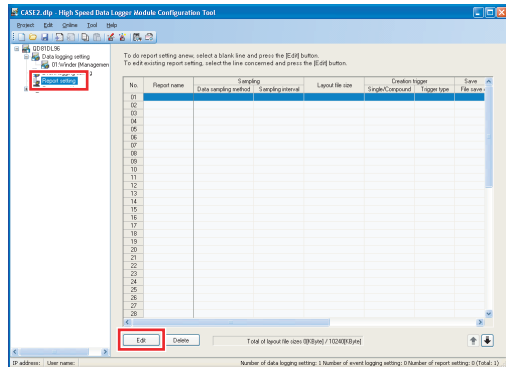
•▶ End

Report settings

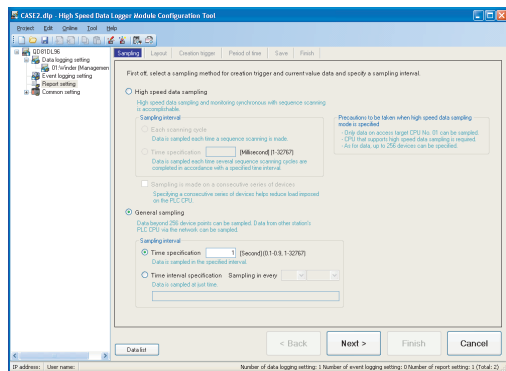
Configure the settings to create a report (Excel format) using data sampled by the high speed data logger module.

STEP 2-1 Display the report setting screen

- 1 Click "Report setting" on the tree and click the  button.

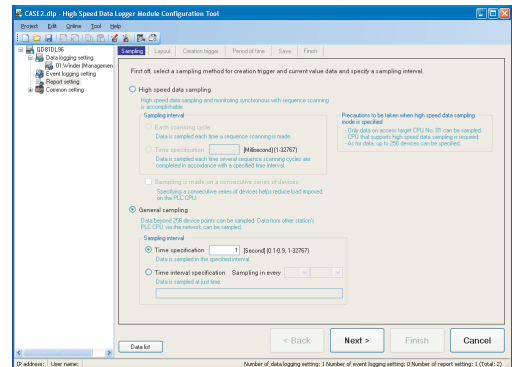


The wizard screen to configure the report settings is displayed.



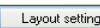
STEP 2-2 Select the data sampling method

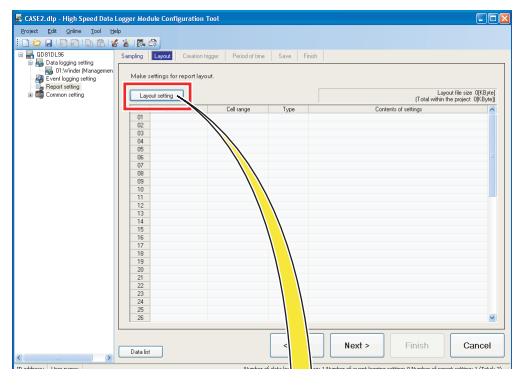
Use the default settings for the data sampling method.



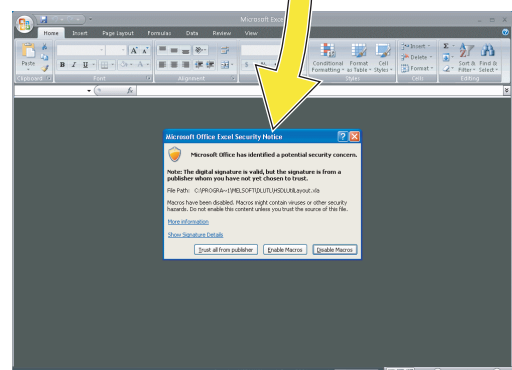
- 1 Click the  button.

STEP 2-3 Display the "Layout setting" screen

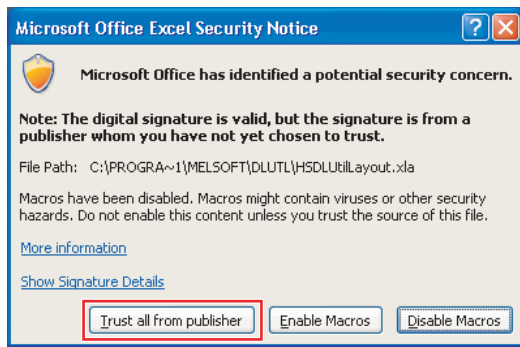
- 1 Click the  button.



Excel is started and the confirmation screen is displayed.



- Click the **Trust all from publisher** button.
(Click the **Enable Macros** button for Excel 2003.)

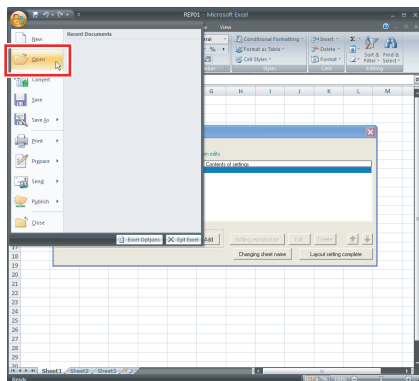


▼ The **Layout setting** dialog box is displayed.

STEP 2-4 Load a layout file

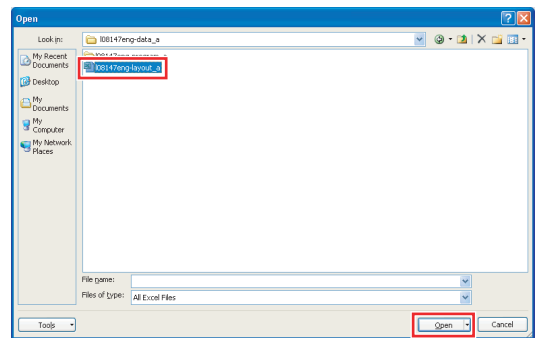
In this guide, the layout is set by using the provided layout file (I08147eng-layout_a.xls). (Preparation (P. 5))
Copy the layout sheet to the sheet used for layout setting.

- Select → [Open] on Excel 2007.
(For Excel 2003, select [File] → [Open].)

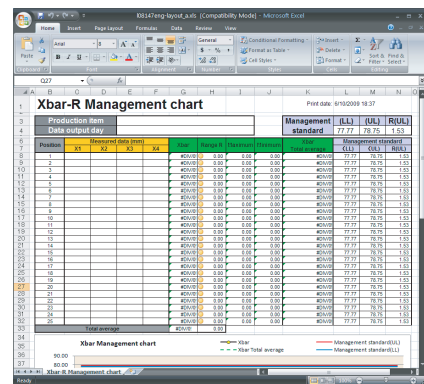


▼ The **Open** dialog box is displayed.

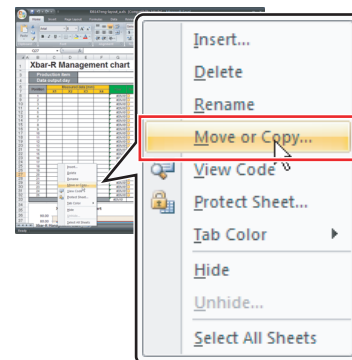
- Select the acquired "I08147eng-layout_a.xls" file and click the **Open** button.



▼ The "Xbar-R Management chart" sheet is displayed with tables and graphs.

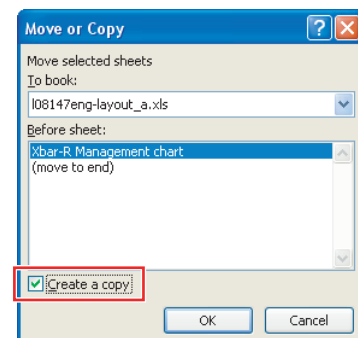


- Right-click on the sheet tab and select "Move or Copy".

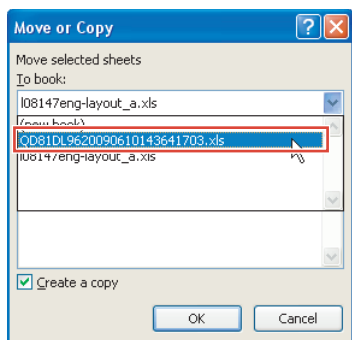


▼ The **Move or Copy** dialog box is displayed.

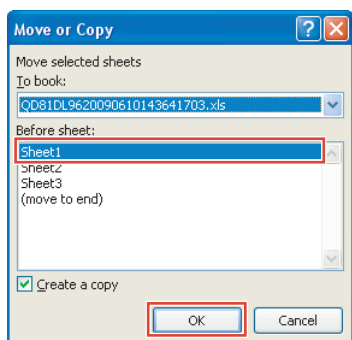
- Check "Create a copy".



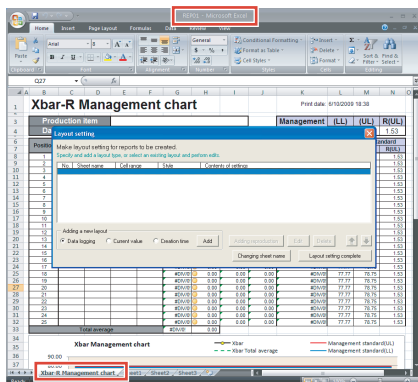
- 5 Select "QD81DL96YYYYMMDDxls" from the list of "To book".



- 6 Select "Sheet1" from the list of "Before sheet", and click the **OK** button.



The "Xbar-R Management chart" sheet is copied to the file "REP01" on which the layout settings are configured.



Close "I08147eng-layout_a.xls" because it is not used for the later operation.



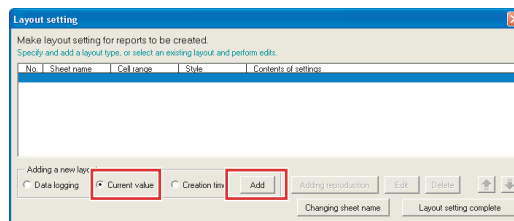
Precautions on changing a sheet name

A sheet name must be changed by using the **Changing sheet name** button on the **Layout setting** dialog box. If the sheet name is changed using other methods, the layout settings will not configure properly.

STEP 2-5 Specify the production item

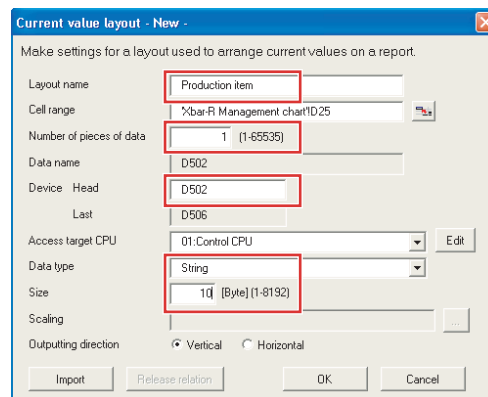
Designate a cell in the report file to display the production item code (current data stored in D502).

- 1 Select "Current value" for "Adding a new layout", and click the **Add** button.

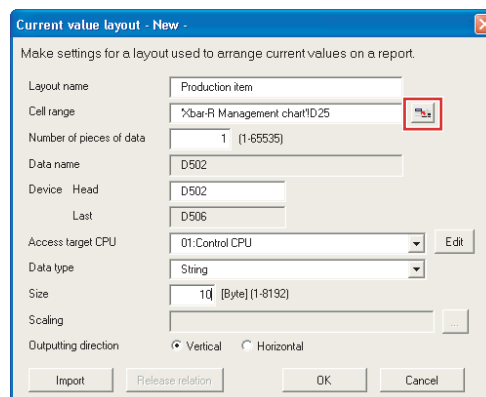


The **Current value layout** dialog box is displayed.

- 2 Specify the data for "Production item" (except for the cell range).
Enter data as shown in the screen below.

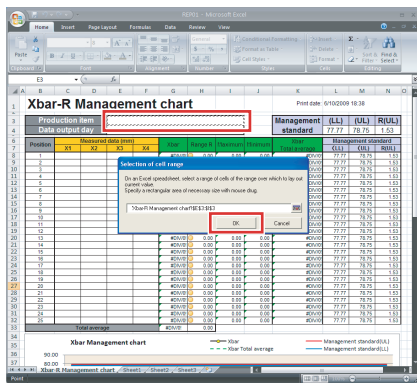


- 3 Click the  (selection of cell range) button.

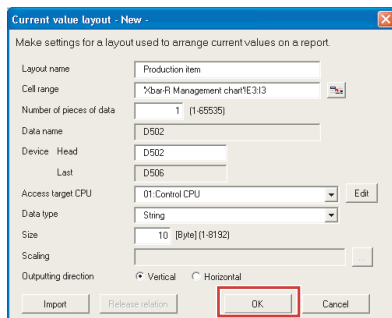


The **Selection of cell range** dialog box is displayed.

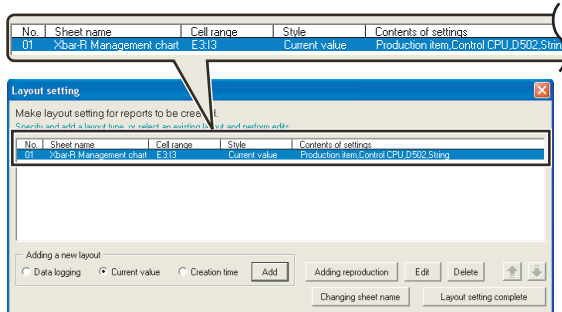
- 4 Select the cell to the right of "Production item" and click the **OK** button.



- 5 Click the **OK** button.



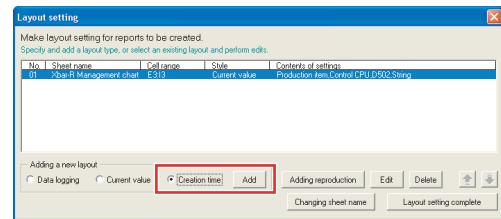
The current value layout is added to the list on the **Layout setting** dialog box.



STEP 2-6 Specify the data output day

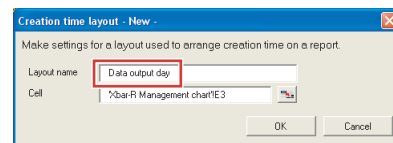
Designate a cell in the report file to display the report creation time.

- 1 Select "Creation time" and click the **Add** button.

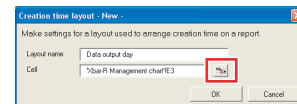


The **Creation time layout** dialog box is displayed.

- 2 Enter "Data output day" for the layout name.

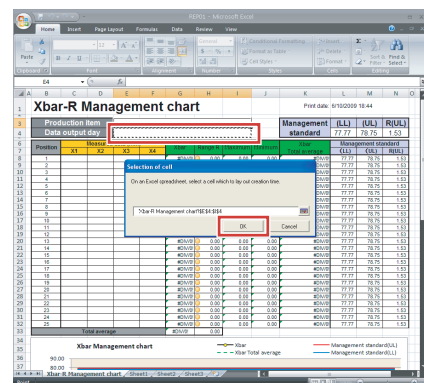


- 3 Click the **Selection of cell** button.

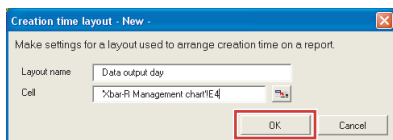


The **Selection of cell** dialog box is displayed.

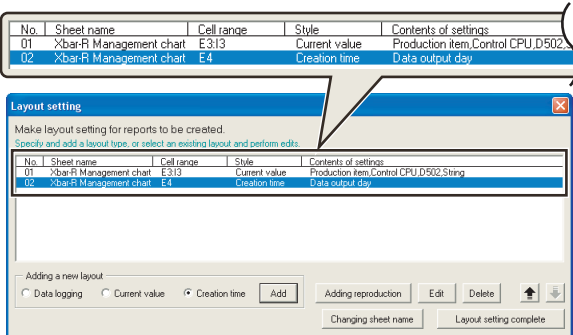
- 4 Select the cell to the right of "Data output day" and click the **OK** button.



- 5 Click the **OK** button.



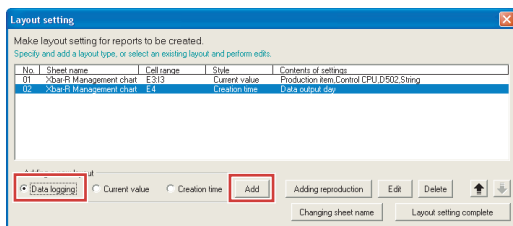
The creation time layout is added to the list on the **Layout setting** dialog box.



STEP 2-7 Specify the logging data

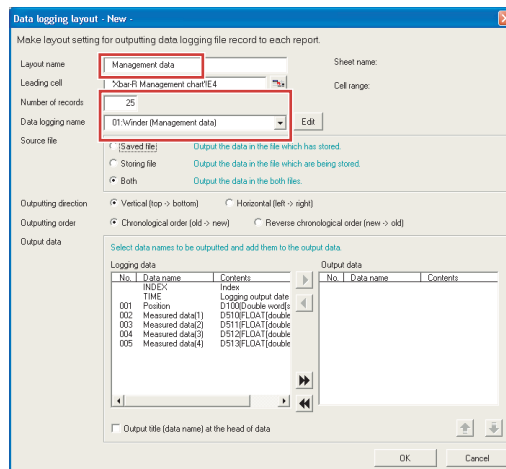
Designate the cells labelled 'position' and 'measured data' in the report file to display the logging data (D100, D510 to D513).

- 1 Select "Data logging" and click the **Add** button.

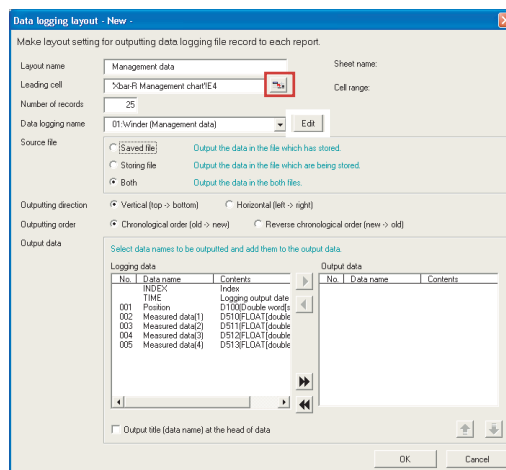


The **Data logging layout** dialog box is displayed.

- 2 Specify the data used for data logging (except for the leading cell and output data).
Enter data as shown in the screen below.

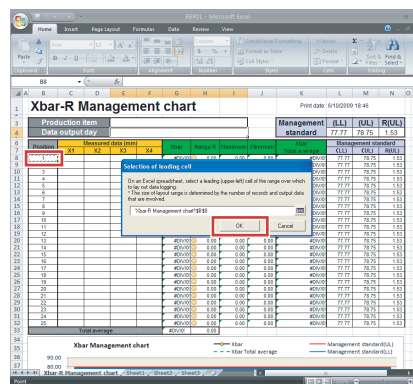


- 3 Click the  (selection of leading cell) button.



The **Selection of leading cell** dialog box is displayed.

- 4 Select the cell under "Position" and click the **OK** button.



- 5 Select the logging data from No. 001 to 005 one by one and click (repeat the operation for each data).
Add the logging data No. 001 to 005 to the field of "Output data".



- 6 Click the button on the Data logging layout dialog box.



The data logging layout is added to the list on the Layout setting dialog box.

STEP 2-8 Finish the layout settings

- 1 Click the button.

- 2 Click the button.

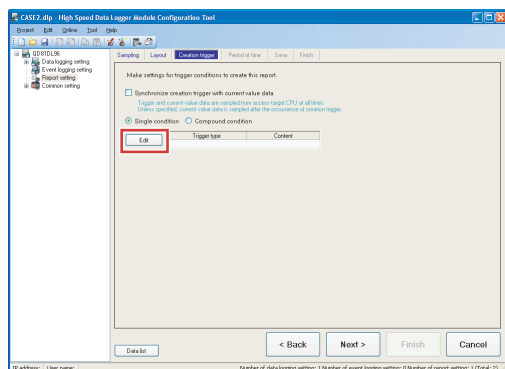


Three layout settings are added to the layout setting list.

- 3 Click the button.

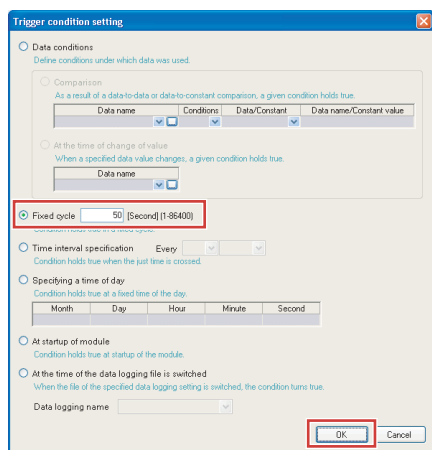
STEP 2-9 Configure trigger settings

- 1 Click the **Edit** button.

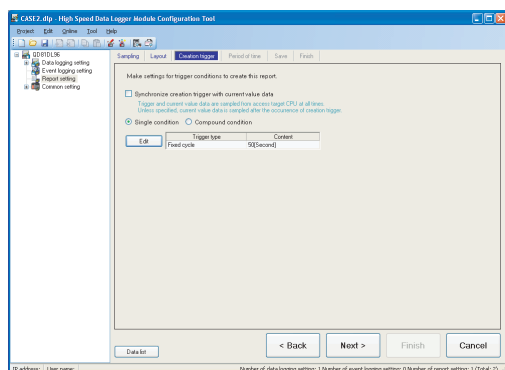


- ▼ The **Trigger condition setting** dialog box is displayed.

- 2 Select "Fixed cycle", enter "50", and click the **OK** button.



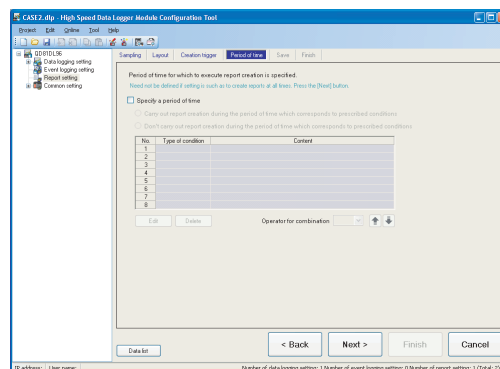
- ▼ The specified condition is applied to the wizard screen.



- 3 Click the **Next >** button.

STEP 2-10 Set the report creation periods

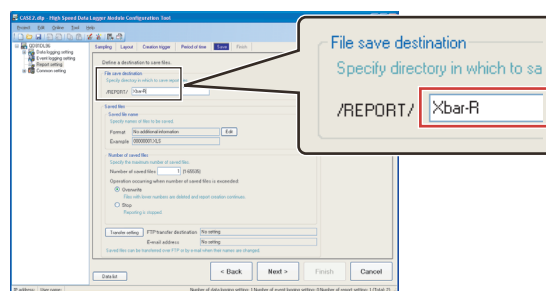
- Use the default settings for the report creation periods.



- 1 Click the **Next >** button.

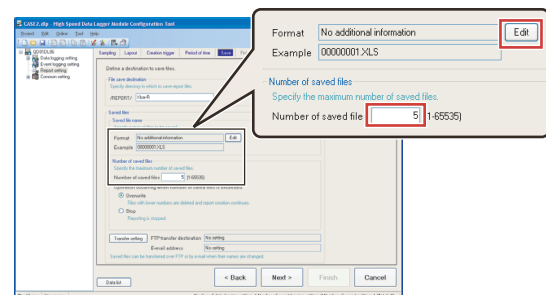
STEP 2-11 Configure the save settings

- 1 Enter "Xbar-R" for the file save destination.



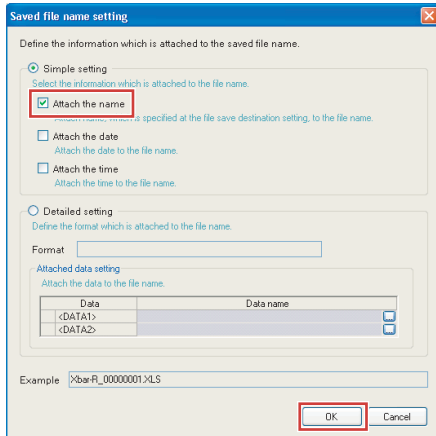
- ▼ A folder with the name specified above is created on the CompactFlash card.

- 2 Enter "5" for the number of saved files and click the **Edit** button.



- ▼ The **Saved file name setting** dialog box is displayed.

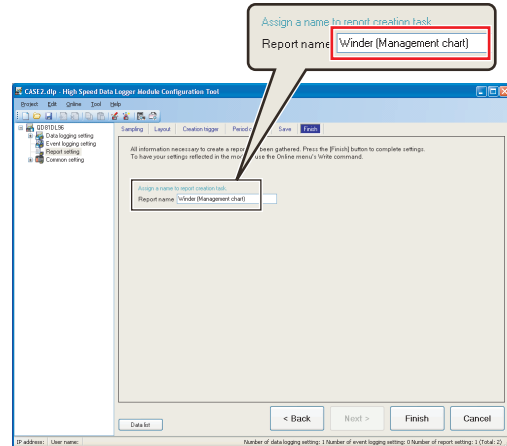
3 Check "Attach the name" and click the **OK** button.



4 Click the **Next >** button.

STEP 2-12 Enter the report name

1 Enter "Winder (Management chart)" for the report name.

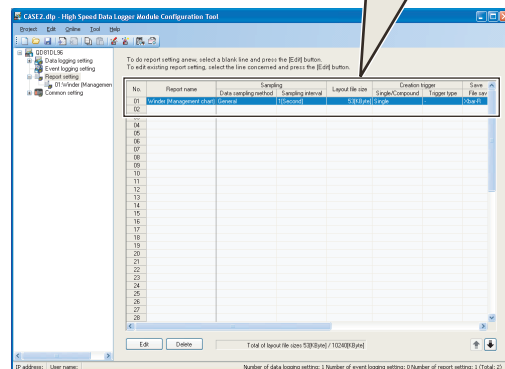


2 Click the **Finish** button.



The configured settings are added to the report setting list screen.

No.	Report name	Sampling		Layout file size
		Data sampling method	Sampling interval	
01	Winder (Management chart)	General	1[Second]	53[KByte]



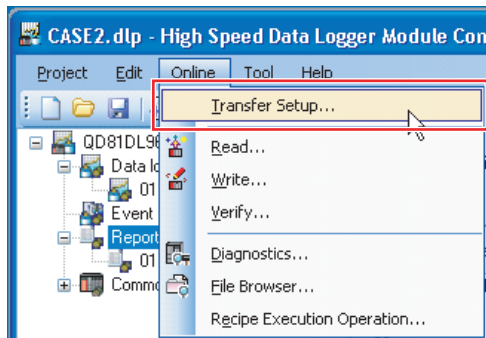
▶ End

Write settings

Write the data logging and report settings configured in STEP 1 and 2 to the high speed data logger module.

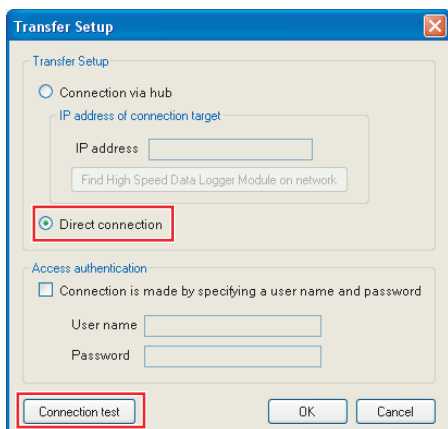
STEP 3-1 Specify the target module

- 1 Select [Online] → [Transfer Setup].

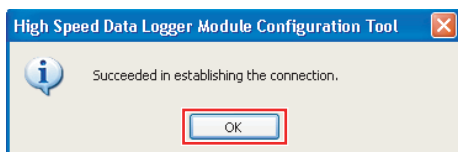


The Transfer Setup dialog box is displayed.

- 2 Select "Direct connection" and click the  button.



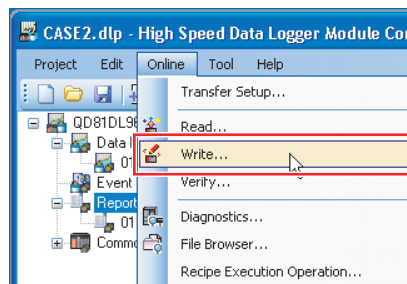
- 3 Click the  button.

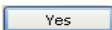


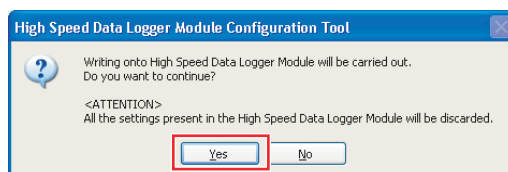
- 4 Click the  button on the Transfer Setup dialog box.

STEP 3-2 Write the settings

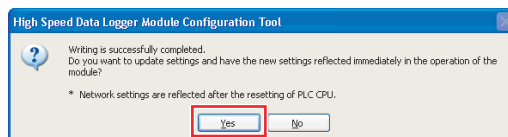
- 1 Select [Online] → [Write].

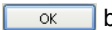


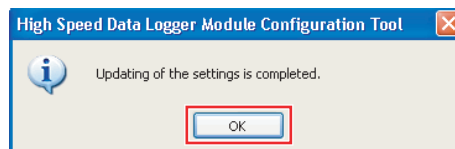
- 2 Click the  button.



- 3 Click the  button.



- 4 Click the  button.



The data logging and report settings are written to the CompactFlash card installed on the high speed data logger module.

The data logging function and the report creation start immediately after the data are written because the CPU mode was set to 'RUN' at Preparation. (☞ Activating the system (P. 6))

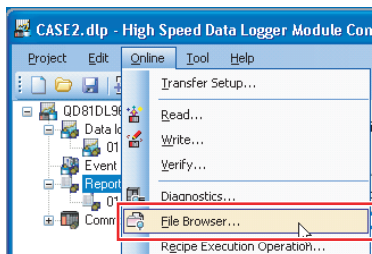
▶ End

STEP 4 Checking created report

Use Excel to check the report created in STEP 3.

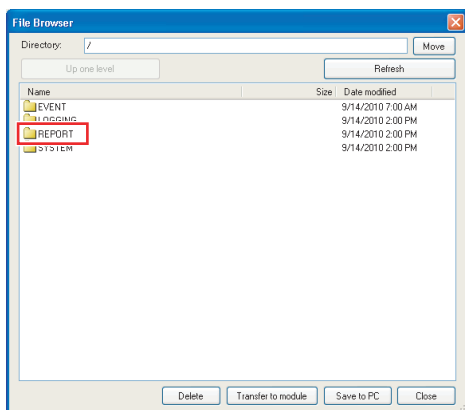
STEP 4-1 Save the report file to a personal computer

1 Select [Online] → [File Browser].



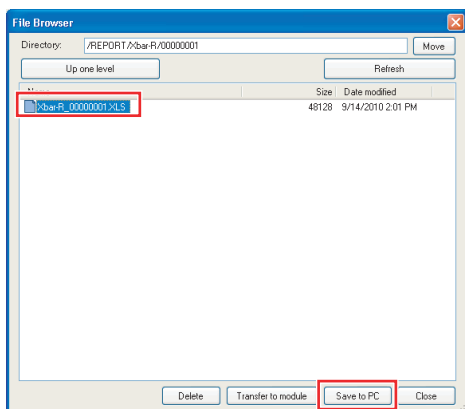
The File Browser dialog box is displayed.

2 Double-click each folder in the following order: "REPORT" → "Xbar-R" → "00000001".

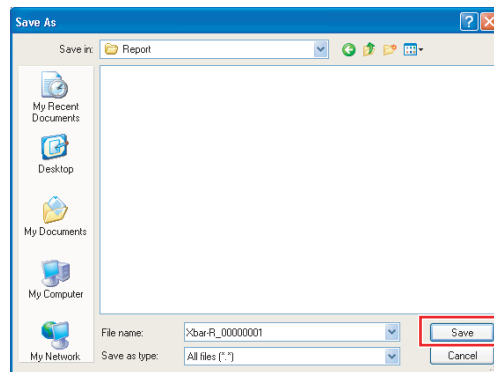


Click the Refresh button when the folder is not displayed in the list.

3 Select the XLS file and click the Save to PC button.



4 Specify the save destination (option) on the Save As dialog box, and click the Save button.

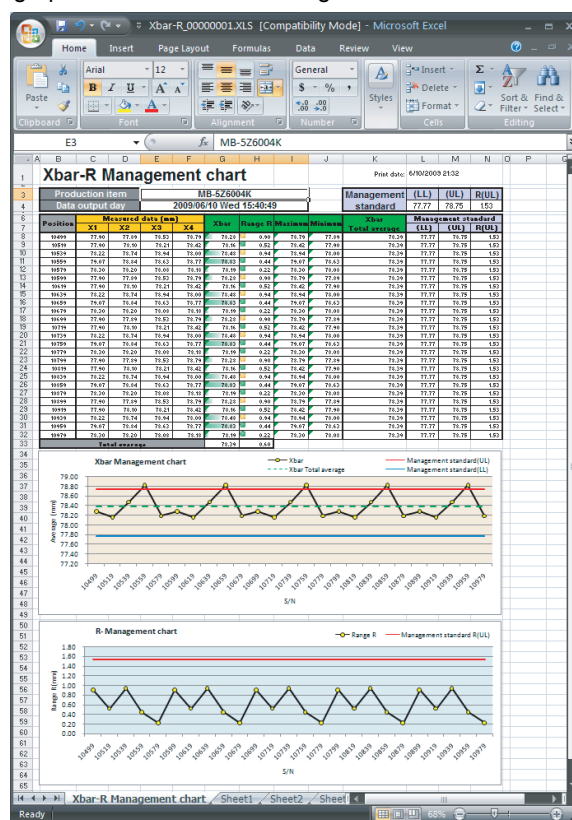


5 Click the Open File button on the File Browser dialog box.

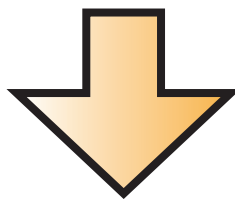
STEP 4-2 Check the report on EXCEL

1 Open the XLS file saved in a personal computer.

2 Check that the logged data are applied to the table and graphs on the "Xbar-R Management chart" sheet.



End



This concludes the Quick Start Guide on the high speed data logger module.

The high speed data logger module supports a number of functions in addition to the logging function and report function introduced in this guide.

For details on the functions, refer to the following manual:

 High Speed Data Logger Module User's Manual SH-080818ENG

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MEMO

Mitsubishi Electric Programmable Controllers

High Speed Data Logger Module

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