

Mitsubishi Programmable Controller High Speed Data Logger Module Quick Start Guide

Let's Start Logging Data!



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



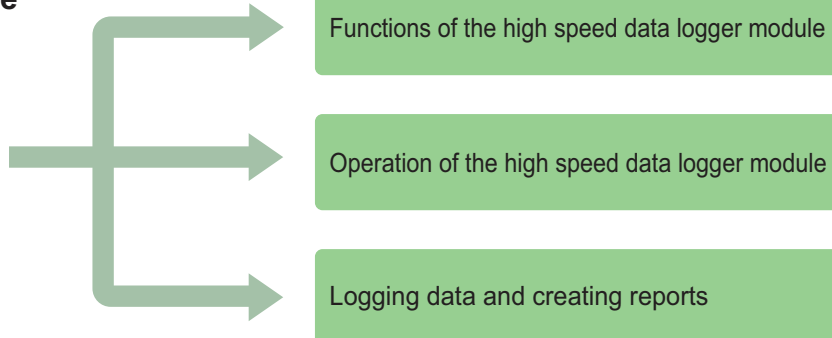
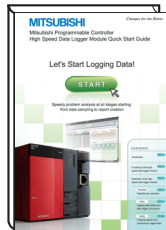
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Introduction

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 Manual SH-080818ENG
- QCPU User's Manual (Hardware Design, Maintenance and Inspection)..... SH-080483ENG
- GX Developer Version8 Operating Manual..... SH-080373E
- GX Works2 Version1 Operating Manual (Common)..... SH-080779ENG

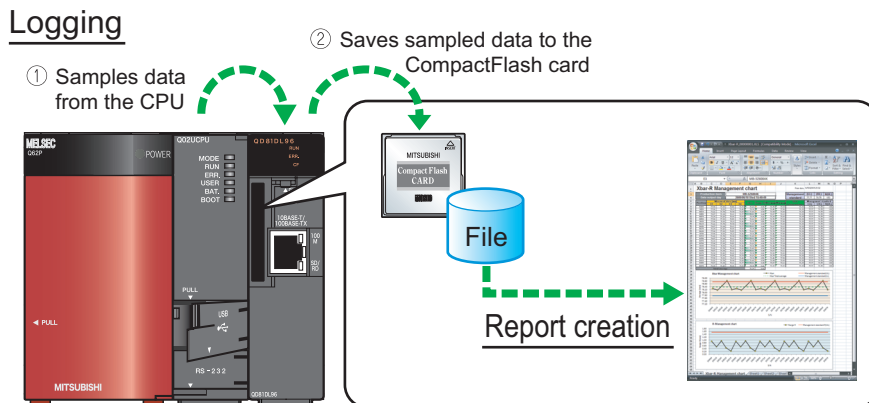
■ How to read this guide

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.

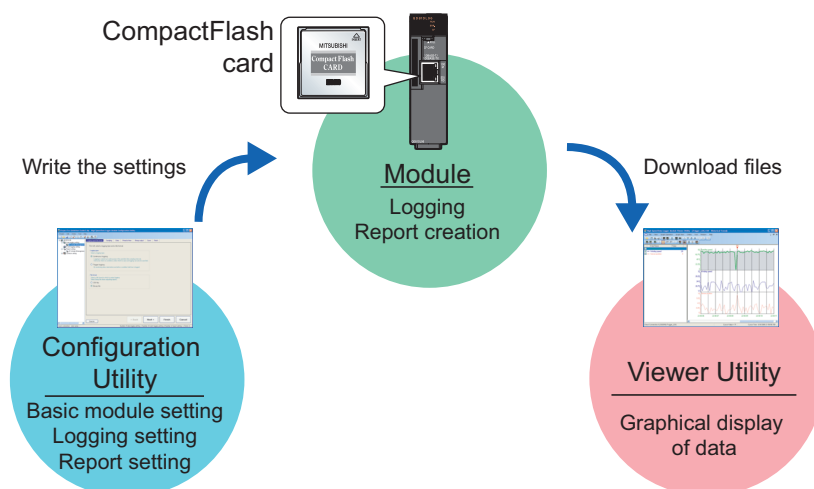
- Data logging : A function to log programmable controller CPU data at the specified data sampling interval.
- Event logging : A function to monitor data sampled from the programmable controller CPU and log occurred events.
- Report : A function to create reports with values and graphs obtained from 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 high speed data logger module tools

The high speed data logger module tools consist of the 'Configuration Utility' used to configure the high speed data logger module, and the 'Viewer Utility' used to display logged data.

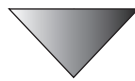


Operation of the Operating high speed data logger module

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

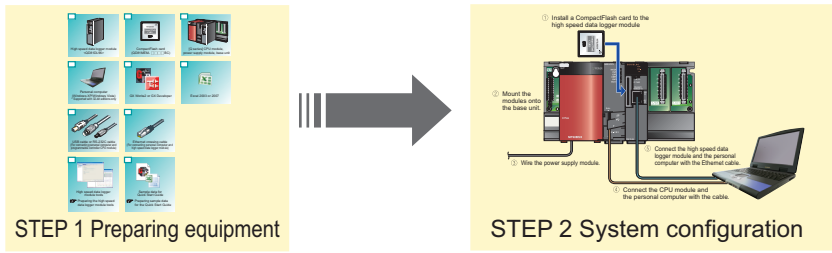
Page	Description
Preparation P4-	Preparing for operation This section explains equipment used in this guide and the system configuration.



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

High speed data logger module
<QD81DL96>

CompactFlash card
(QD81MEM- □□□□ BC)

[Q series] CPU module,
power supply module, base unit

Personal computer
(Windows XP/Windows Vista)
* Supported with 32-bit editions only

GX Works2 or GX Developer

Excel 2003 or 2007

USB cable or RS-232C cable
(For connecting personal computer and
programmable controller CPU module)

Ethernet crossing cable
(For connecting personal computer and
high speed data logger module)

High speed data logger
module tools

☞ Preparing the high speed
data logger module tools

Sample data for
Quick Start Guide

☞ Preparing sample data
for the Quick Start Guide

Operation of the high speed data logger module

Preparation

■ **Preparing the high speed data logger module tools**

For the acquisition of the high speed data logger module tools (Configuration Utility and Viewer Utility), contact your local Mitsubishi representative.

Please install the acquired tools.

■ **Preparing sample data for the Quick Start Guide**

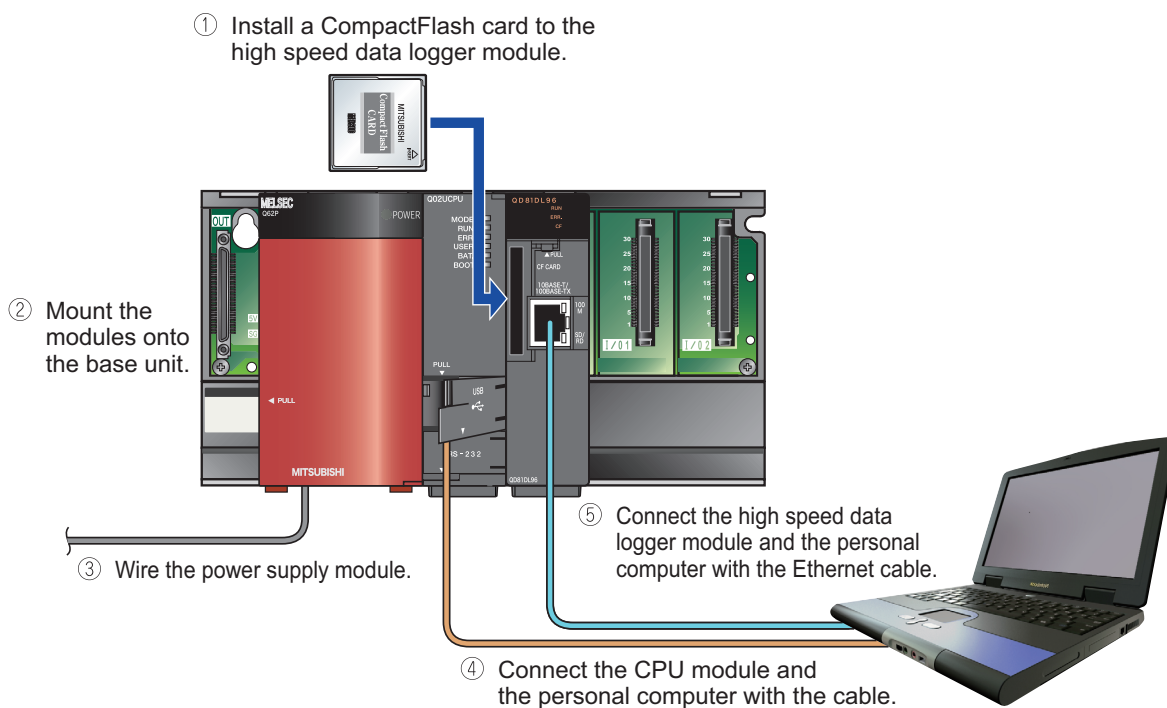
To obtain the sample data (sample sequence programs and sample layout files) used in CASE 1 and CASE 2 in this guide, contact your local Mitsubishi representative.

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 sample sequence program 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)

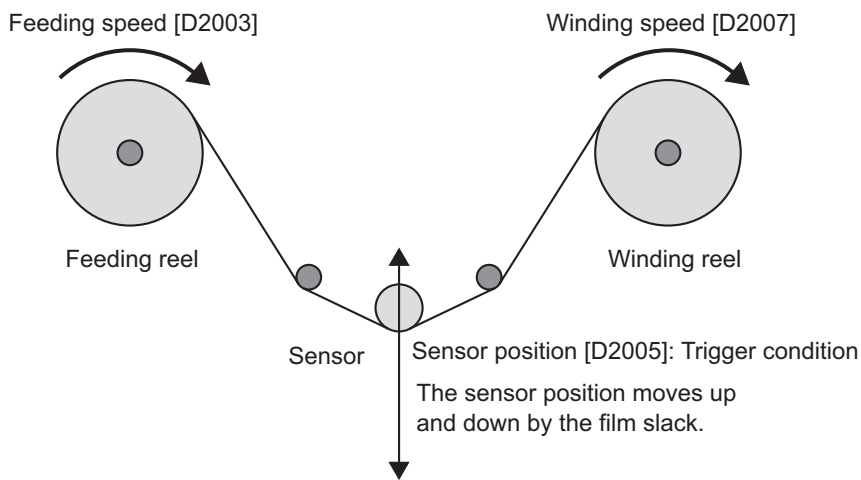
CASE 1 Logging data before and after trigger occurrence

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.

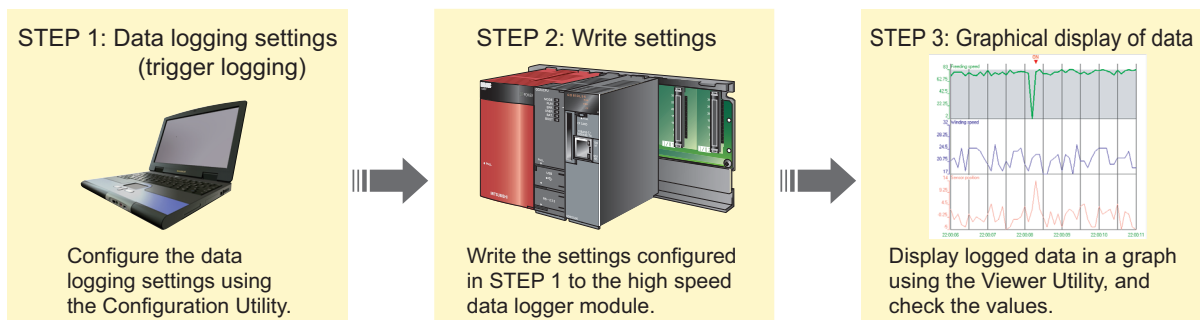
The sensor position moves up and down according to variation in the feeding reel speed, and a trigger (error) occurs when the allowable range is exceeded 100 lines (records) of data before and after the trigger occurrence are saved in a file.



Data logging settings

- Target data : Feeding speed [D2003 (words)], winding speed [D2007 (words)], sensor position [D2005 (words)]
- 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



Operation of the high speed data logger module

CASE 1

STEP 1

Data logging settings (trigger logging)

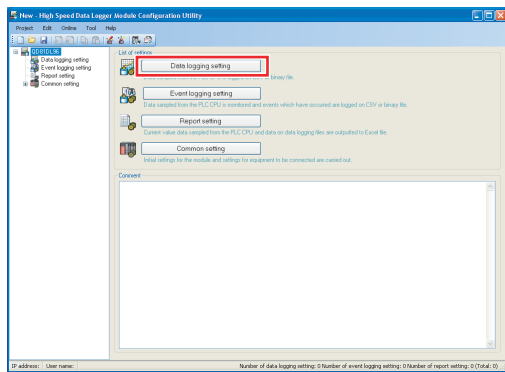
Configure the settings to log the programmable controller CPU data before and after the establishment of a trigger condition.

STEP 1-1 Start the Configuration Utility

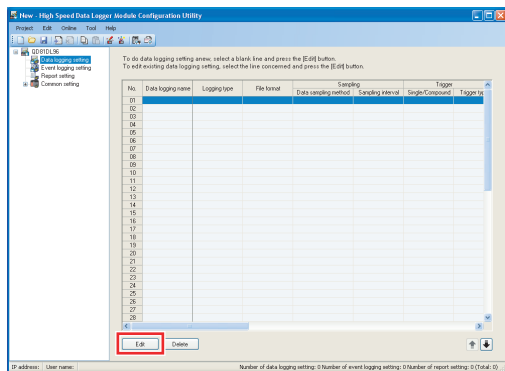
- From the Window's start menu, select [All Programs] →
- [MELSEC] → [High Speed Data Logger Module Tool] →
- ▼ [Configuration Utility].

STEP 1-2 Display the data logging setting screen

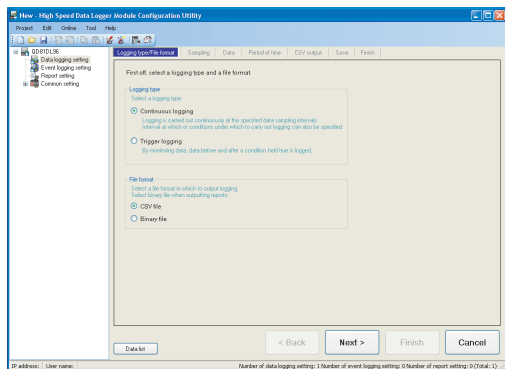
1 Click the **Data logging setting** button.



2 Click the **Edit** button.

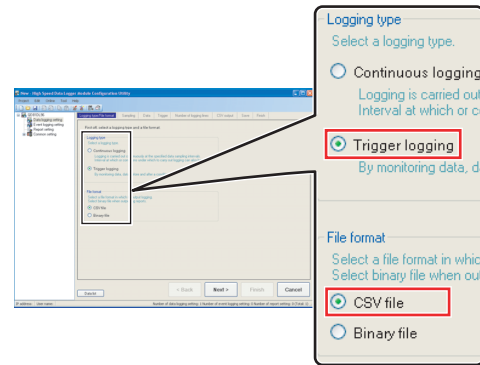


The wizard screen to configure the data logging settings is displayed.



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

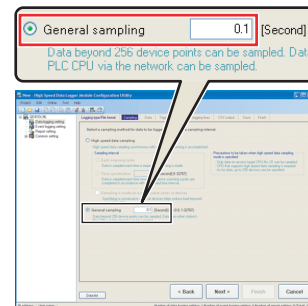
1 Select "Trigger logging" for the logging type, and "CSV file" for the file format.



2 Click the **Next >** button.

STEP 1-4 Select the data sampling method

1 Select "General sampling", and enter "0.1".



2 Click the **Next >** button.

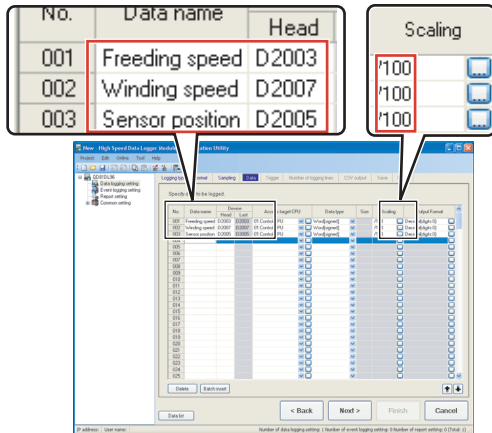
Operation of the high speed data logger module

CASE 1

STEP 1-5 Set the target data

1 Specify the data to be logged.

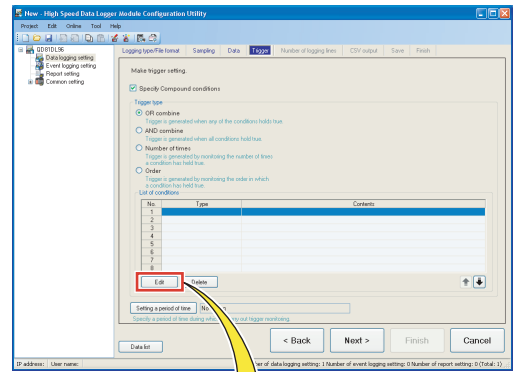
Enter data as shown in the screen below.



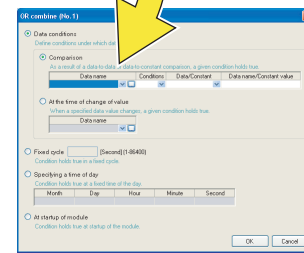
Default values are automatically displayed for "Device" (Last), "Access target CPU", and "Output Format".

2 Click the **Next >** button.

2 Click the **Edit** button.



The screen used for specifying a trigger condition is displayed.

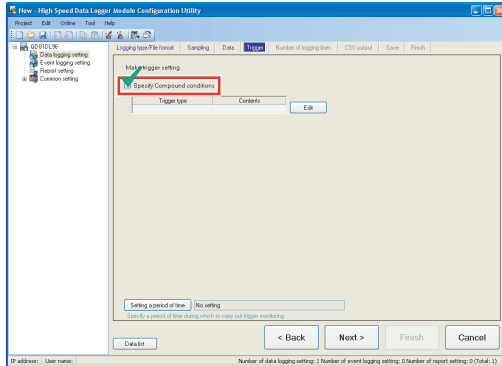


3 Specify the first trigger condition.

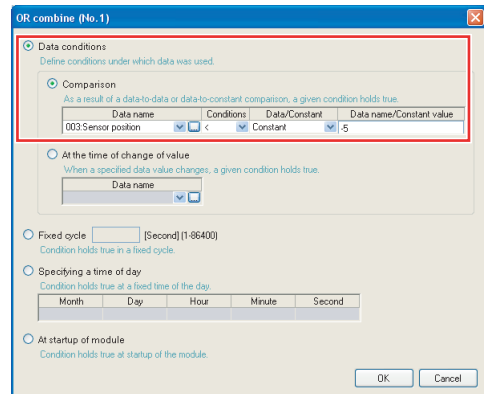
Enter data as shown in the screen below.

STEP 1-6 Configure the trigger settings

1 Check "Specify Compound conditions".

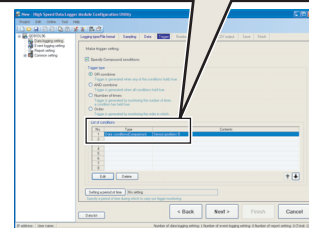
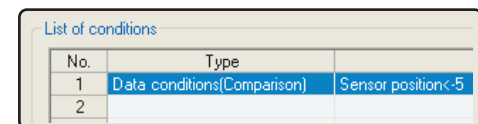


The trigger types are displayed.



4 Click the **OK** button.

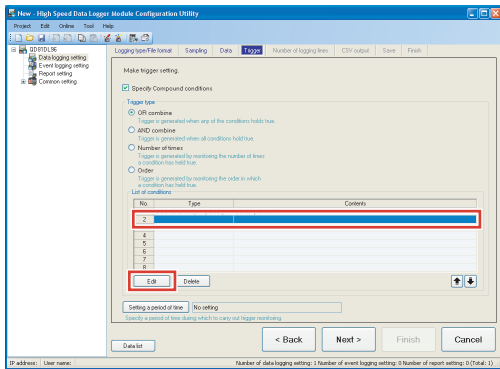
The specified condition is added to the list of conditions.



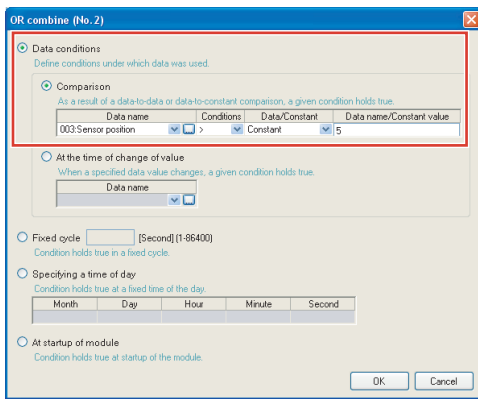
Operation of the high speed data logger module

CASE 1

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.

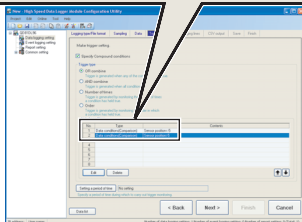


7 Click the **OK** button.



The specified condition is added to the list of conditions.

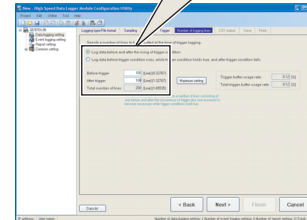
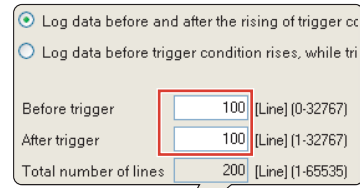
No.	Type	
1	Data conditions(Comparison)	Sensor position<5
2	Data conditions(Comparison)	Sensor position>5



8 Click the **Next >** button.

STEP 1-7 Set the number of logging lines

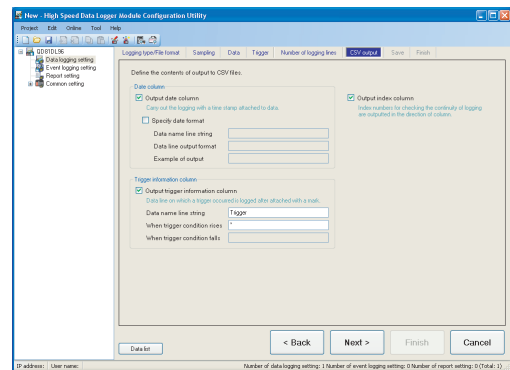
1 Enter "100" for "Before trigger", and "100" for "After trigger".



2 Click the **Next >** button.

STEP 1-8 Configure the CSV output settings

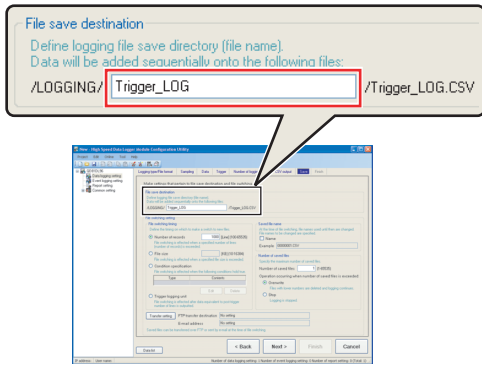
Use the default settings for the CSV output settings.



1 Click the **Next >** button.

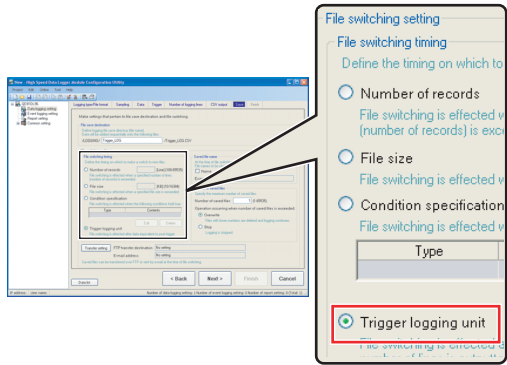
STEP 1-9 Configure the save settings

1 Enter "Trigger_LOG" for the file save destination.

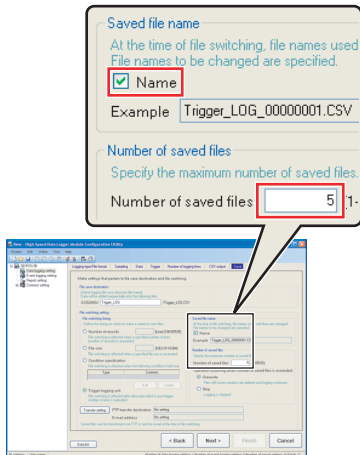


A folder with the name specified above is created on the CompactFlash card.

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



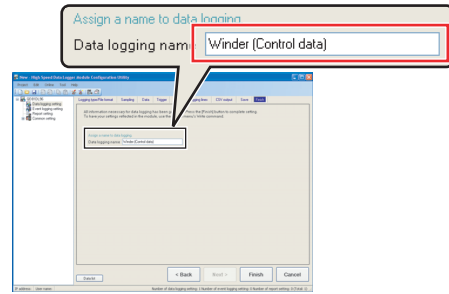
3 Check "Name" under "Saved file name", and enter "5" for the number of saved files.



4 Click the "Next >" button.

STEP 1-10 Enter the data logging name

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

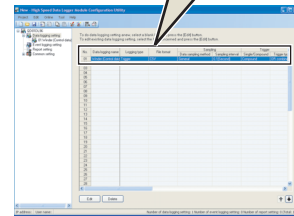


2 Click the "Finish" button.



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

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

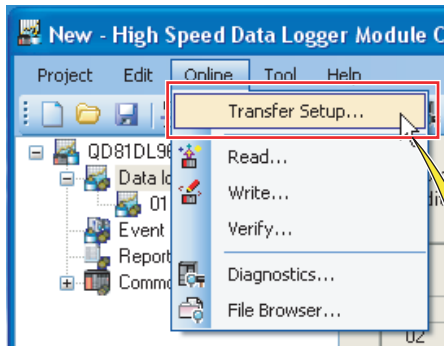


▶ End

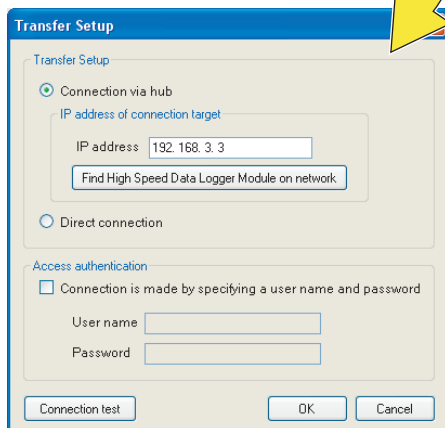
Write the data logging settings configured in STEP 1 to the high speed data logger module.

STEP 2-1 Specify the target module

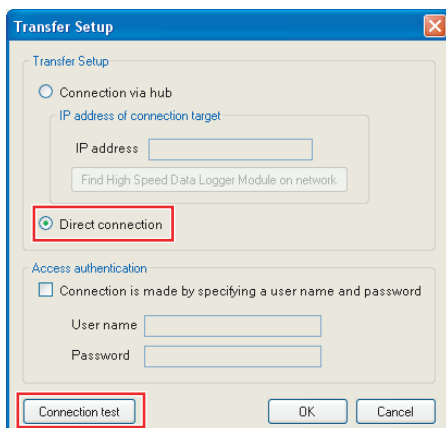
1 Select [Online] → [Transfer Setup].



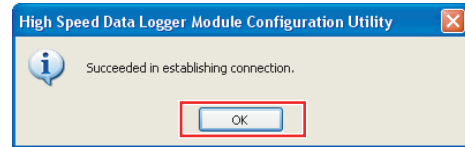
The "Transfer Setup" screen is displayed.



2 Select "Direct connection" and click the button.



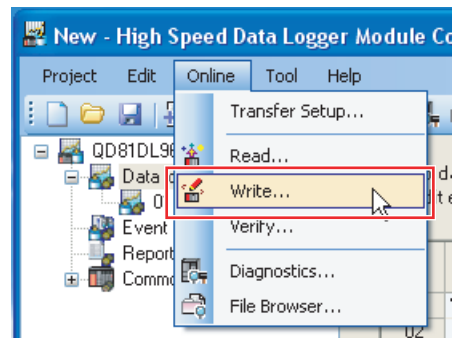
3 Click the button.



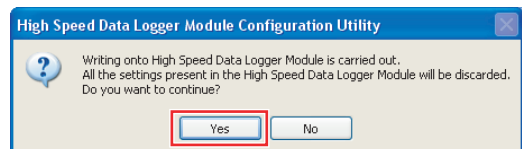
4 Click the button on the "Transfer Setup" screen.

STEP 2-2 Write the settings

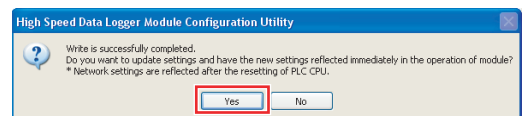
1 Select [Online] → [Write].



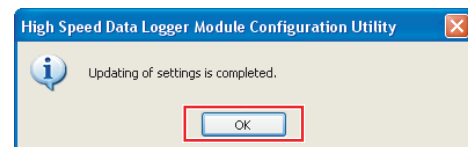
2 Click the button.



3 Click the button.



4 Click the 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)).

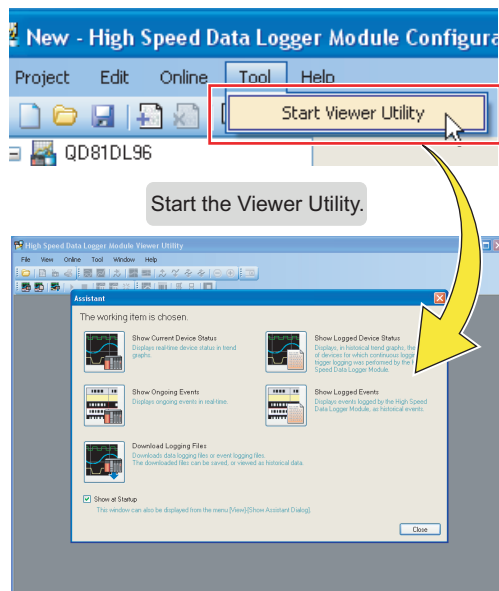
▶ End

Display logged data in graphs using the Viewer Utility.

STEP 3-1 Start the Viewer Utility


Start the Viewer Utility from the Configuration Utility.

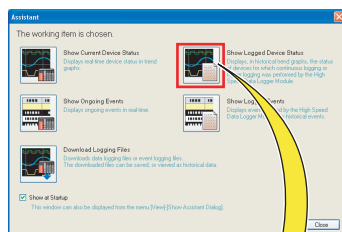
1 Select [Tool] → [Start Viewer Utility].



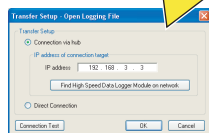
Start the Viewer Utility.


STEP 3-2 Specify the data to be displayed

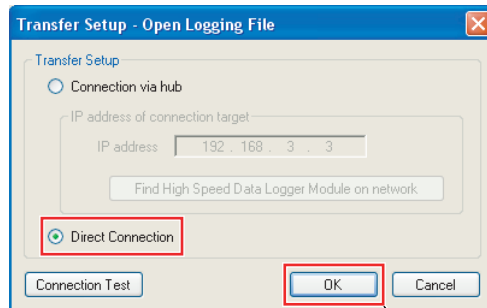
1 Click the  button on the "Assistant" screen.



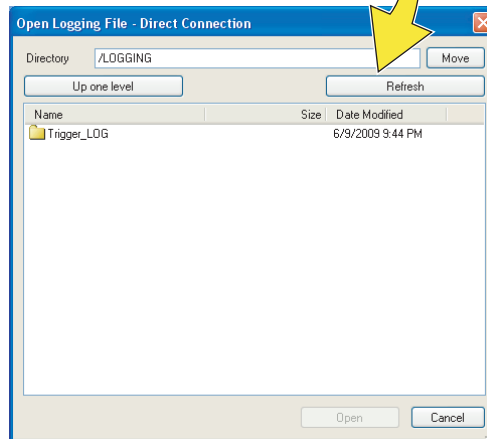
The "Transfer Setup" screen is displayed.




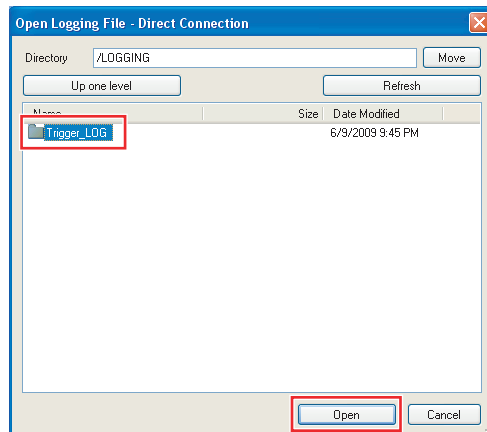
2 Select "Direct Connection" and click the  button.



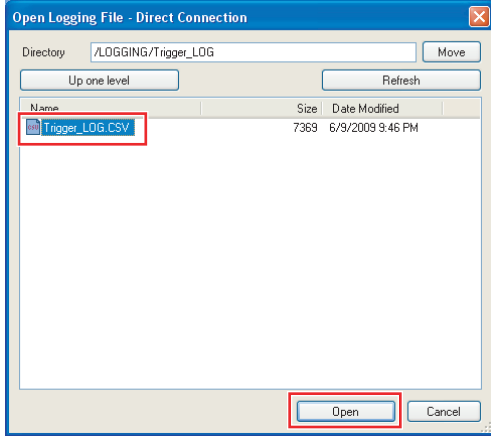
The "Open Logging File" screen is displayed.



3 Select "Trigger_LOG" and click the  button.



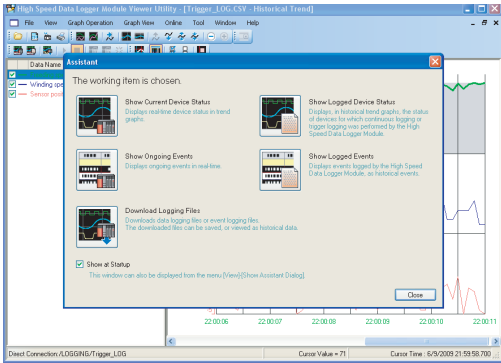
4 Select "Trigger_LOG.CSV" and click the button.



Click the button when "Trigger_LOG.CSV" is not displayed in the list.



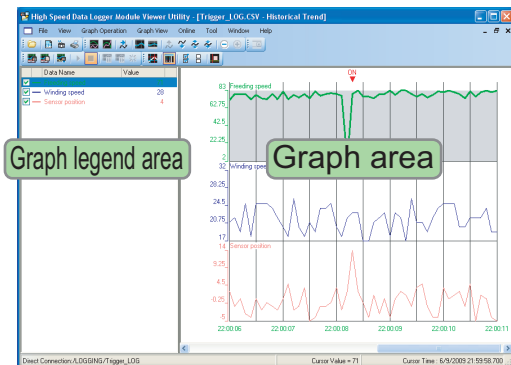
A list of data names and graphs are displayed behind the "Assistant" screen.



5 Click the button on the "Assistant" screen.



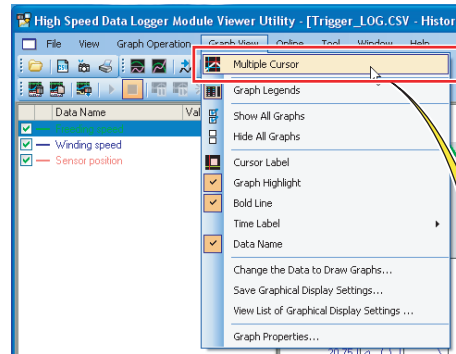
The data specified as target data in the data logging settings are displayed in the graph legend area and the graph area.



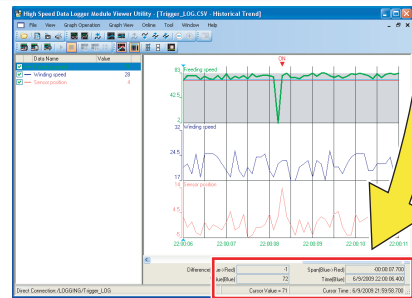
* Note that in this guide, the background color was changed to white in graph properties ([Graph View] → [Graph Properties]).

STEP 3-3 Display multiple cursors

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

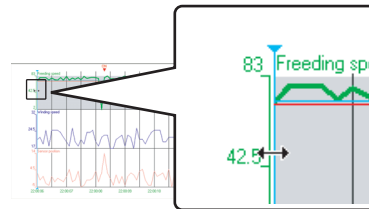


The difference information area is displayed.

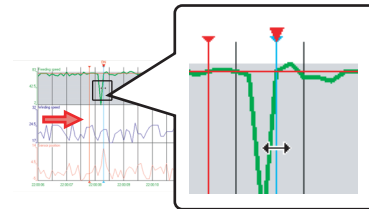


STEP 3-4 Check data using the cursors

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.

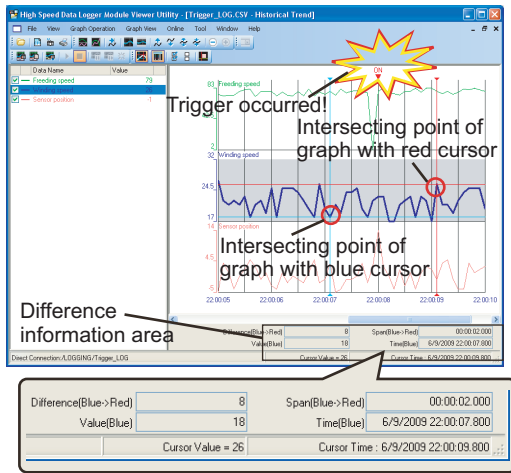


Move the red and blue cursors.



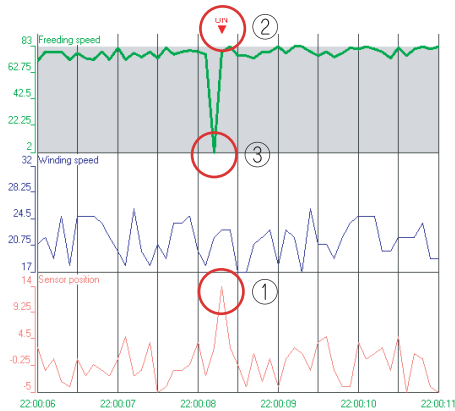
2 Check the cursor details displayed in the difference information area.

- 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

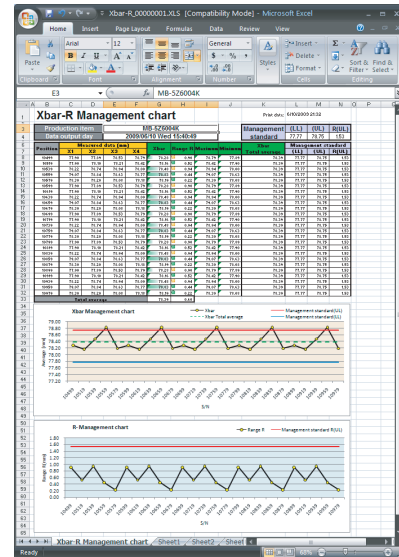
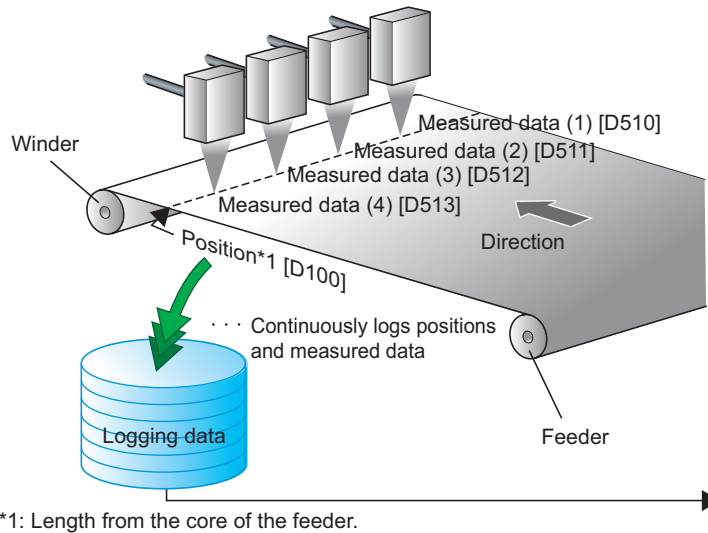
CASE 2 Creating reports from continuously logged data

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])



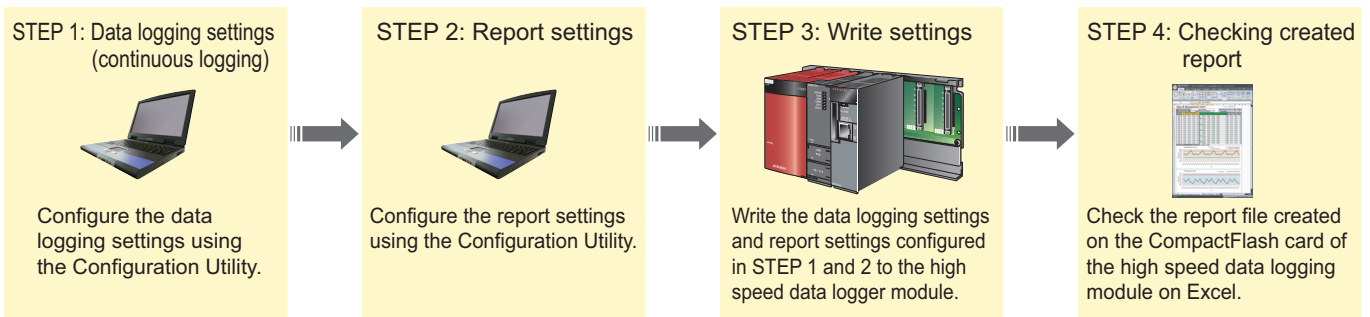
Data logging settings

- Target data : Position [D100 (double word)], measured data (1) [D510 (word)], measured data (2) [D511 (word)], measured data (3) [D512 (word)], measured data (4) [D513 (word)]
- 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)

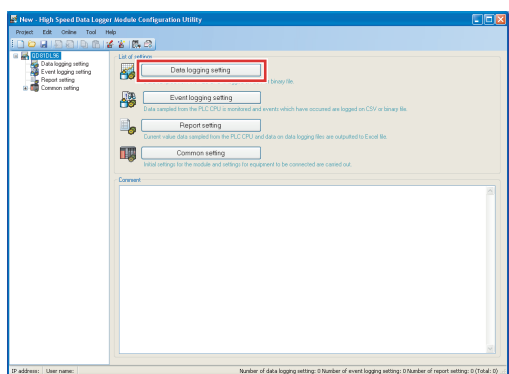
Configure the settings to log the programmable controller CPU data at the specified data sampling interval.

STEP 1-1 Start the Configuration Utility

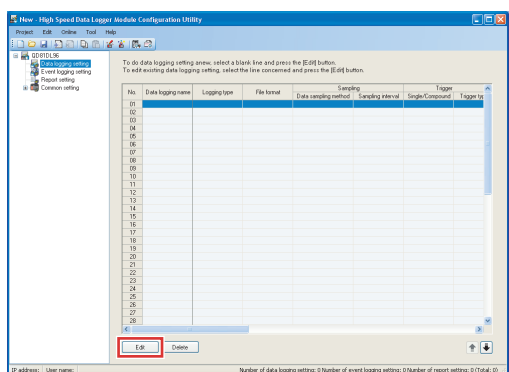
- From the Window's start menu, select [All Programs] → [MELSEC] → [High Speed Data Logger Module Tool] → [Configuration Utility].

STEP 1-2 Display the data logging setting screen

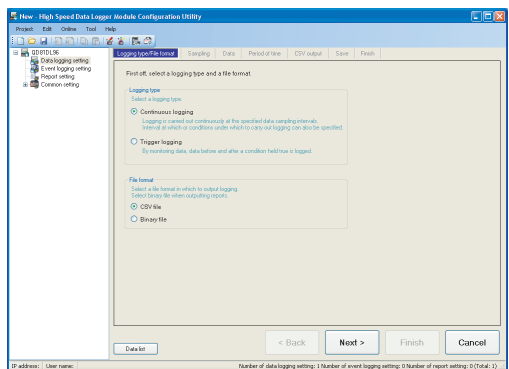
1 Click the **Data logging setting** button.



2 Click the **Edit** button.

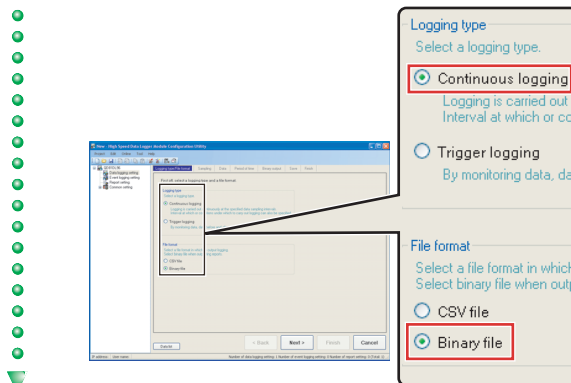


The wizard screen to configure the data logging settings is displayed.



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

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

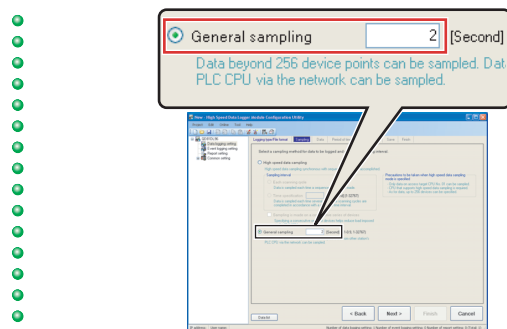


2 Click the **Next >** button.

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

1 Select "General sampling", and enter "2".



2 Click the **Next >** button.

Operation of the high speed data logger module

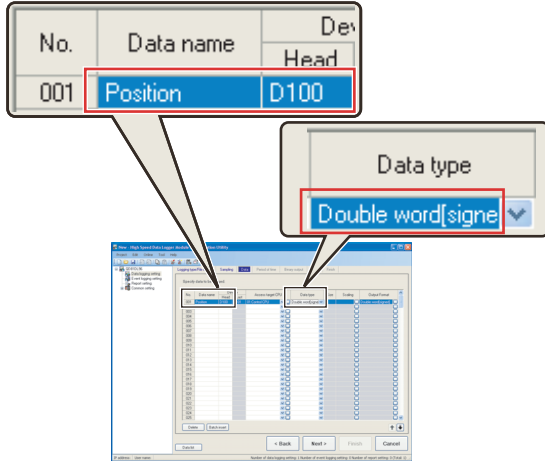
CASE 2

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)

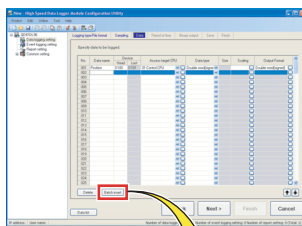
Enter data as shown in the screen below.



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

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

Set the consecutive devices in batch.

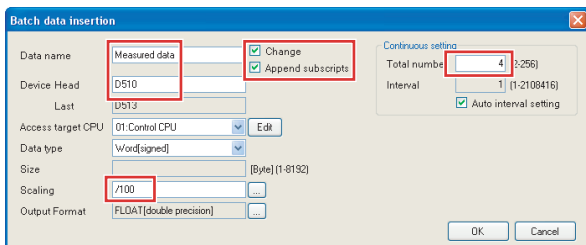


The "Batch data insertion" screen is displayed.



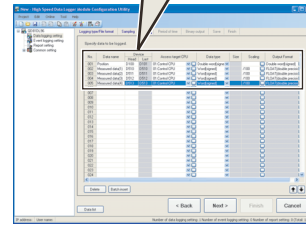
3 Enter the information regarding the target data, and click the **OK** button.

Specify data as shown in the screen below.
Enter the data name after "Change" is checked.



The specified data are added to the list.

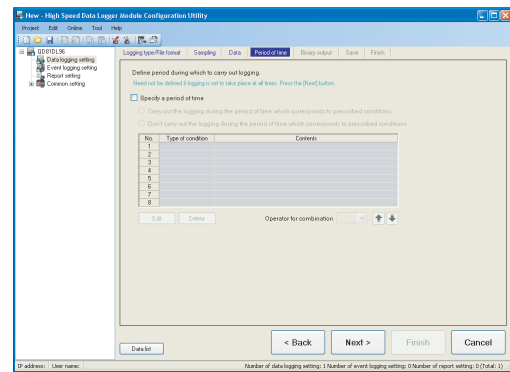
No.	Data name	Device		Access target CPU	Data type
		Head	Last		
001	Position	D100	D101	01:Control CPU	Double word[signed]
002	Measured data(1)	D510	D510	01:Control CPU	Word[signed]
003	Measured data(2)	D511	D511	01:Control CPU	Word[signed]
004	Measured data(3)	D512	D512	01:Control CPU	Word[signed]
005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



4 Click the **Next >** button.

STEP 1-6 Set the logging period

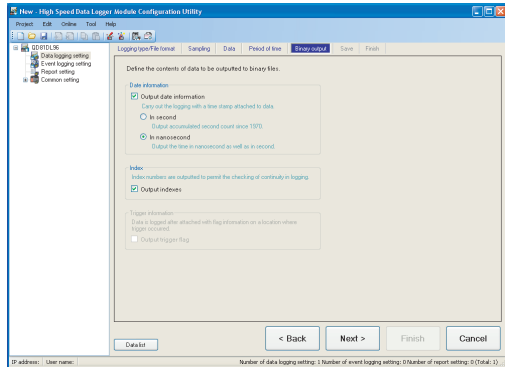
Use the default settings for the logging period.



1 Click the **Next >** button.

STEP 1-7 Configure the binary output settings

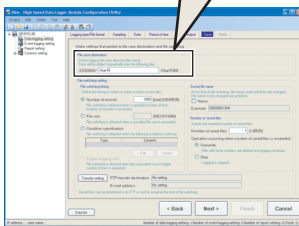
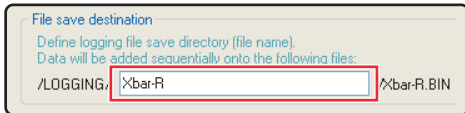
Use the default settings for the binary output settings.



1 Click the **Next >** button.

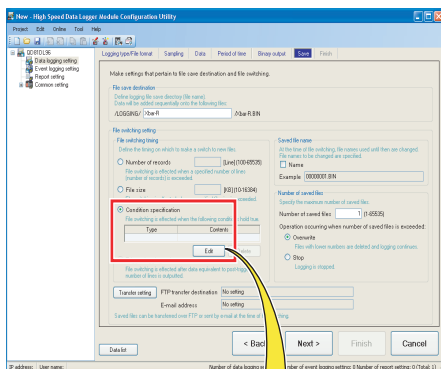
STEP 1-8 Configure the save settings

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

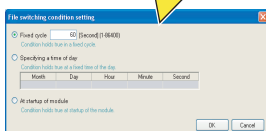


A folder with the name specified above is created on the CompactFlash card.

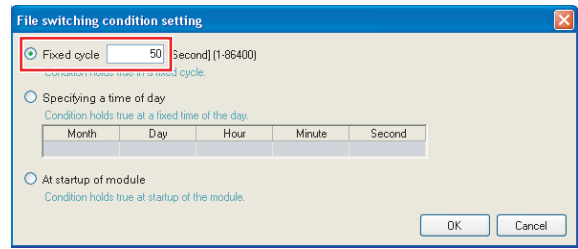
2 Select "Condition specification" for the file switching timing, and click the **Edit** button.



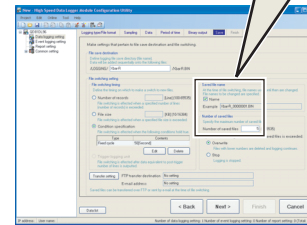
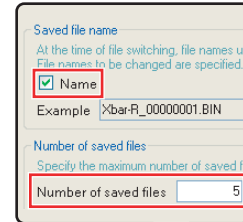
The "File switching condition setting" screen is displayed.



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



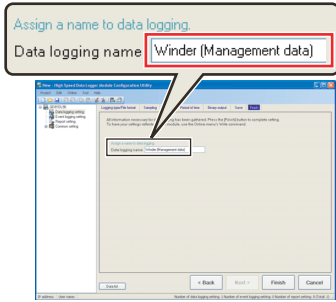
4 Check "Name" under "Saved file name", and enter "5" for the number of saved files.



5 Click the **Next >** button.

STEP 1-9 Enter the data logging name

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

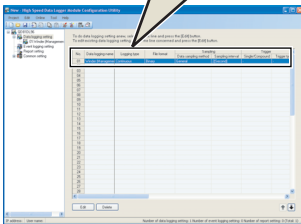


2 Click the  button.



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

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




▶ End

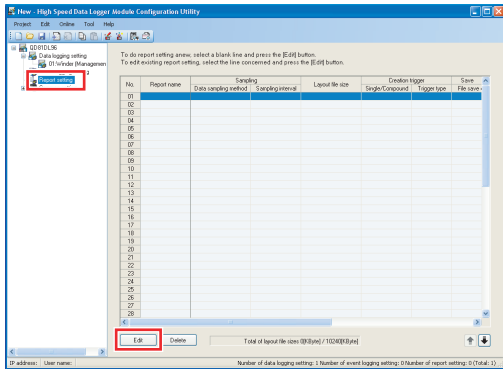
STEP 2

Report settings

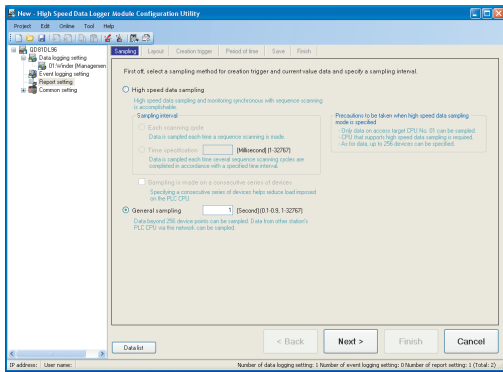
Configure the settings to create a report (Excel format) using data sampled by the high speed data logger module.

STEP 2-1 Display the report setting screen

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

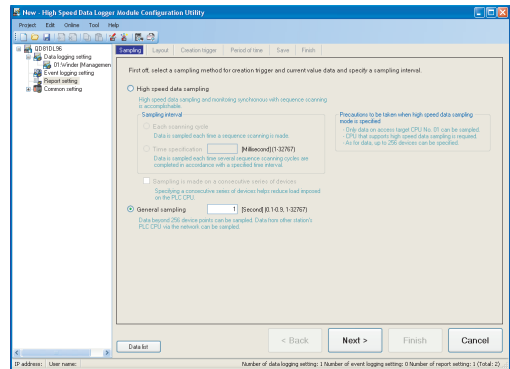


The wizard screen to configure the report settings is displayed.



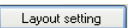
STEP 2-2 Select the data sampling method

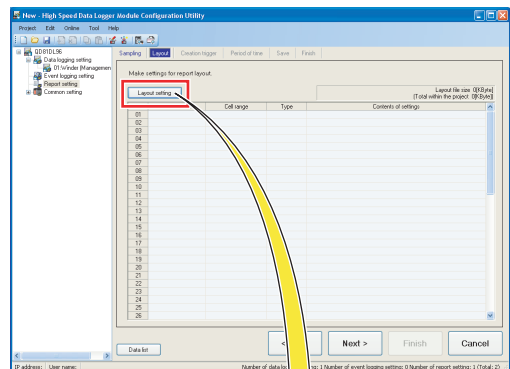
Use the default settings for the data sampling method.



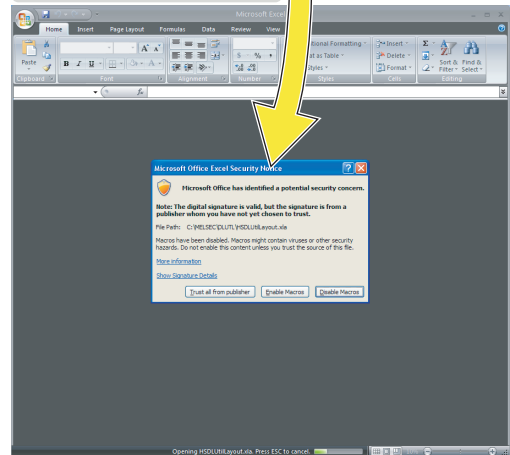
1 Click the  button.

STEP 2-3 Display the "Layout setting" screen

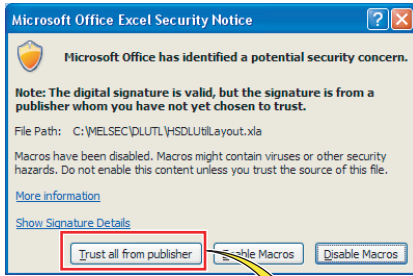
1 Click the  button.



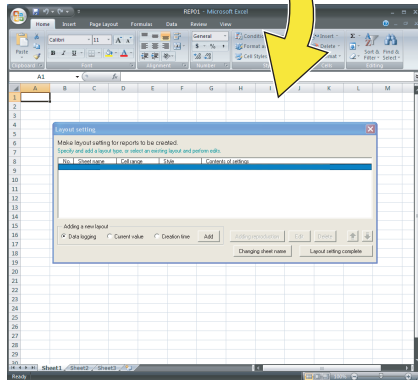
Excel is started and the confirmation screen is displayed.



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



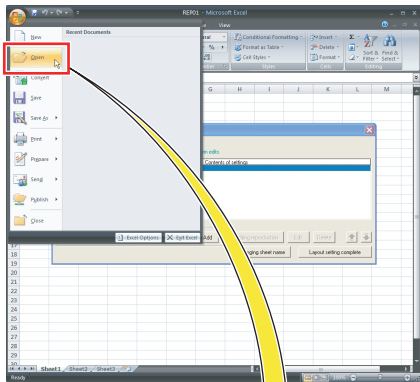
The "Layout setting" screen is displayed.



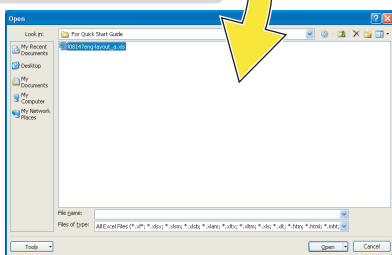
STEP 2-4 Load a sample layout

In this guide, the layout is set by using the provided sample layout. (Preparation (P. 5))
Copy the sample layout sheet to the sheet used for layout setting.

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



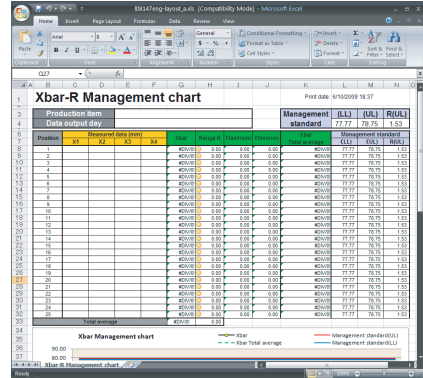
The "Open" screen is displayed.



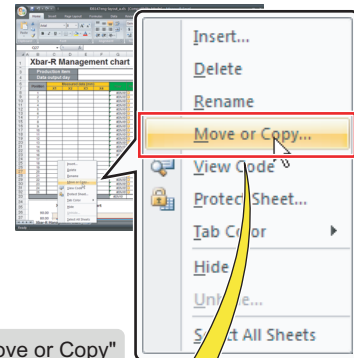
- Select the acquired "108147eng-layout_a.xls" file and click the **Open** button.



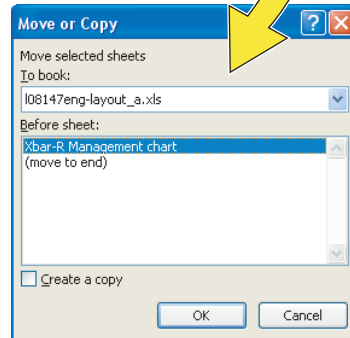
The "Xbar-R Management chart" sheet is displayed with tables and graphs.



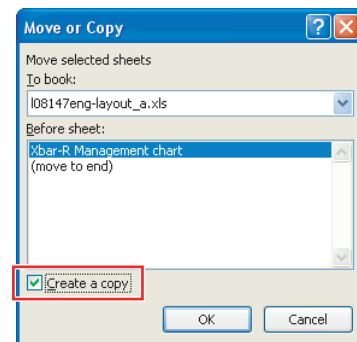
- Right-click on the sheet tab and select "Move or Copy".



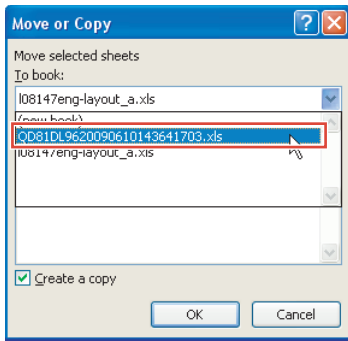
The "Move or Copy" screen is displayed.



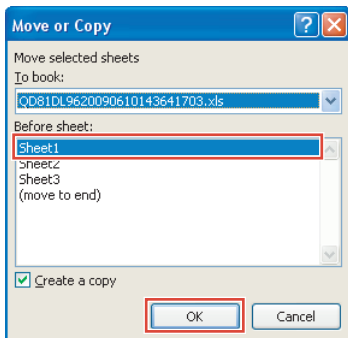
- Check "Create a copy".



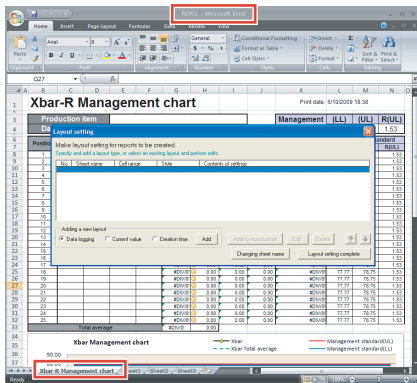
- Select "QD81DL96YYYYMMDDxls" from the list of "To book".



- 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.

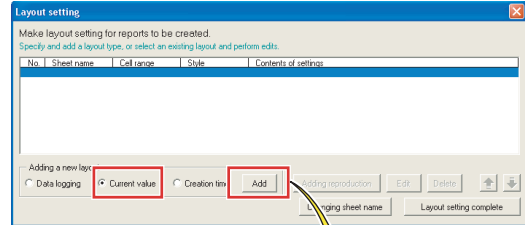
Remark

Precautions on changing a sheet name
 A sheet name must be changed by using the **Changing sheet name** button on the "Layout setting" screen. If the sheet name is changed using other methods, the layout settings will not configure properly.

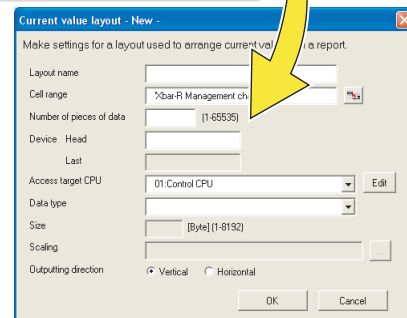
STEP 2-5 Specify the production item

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

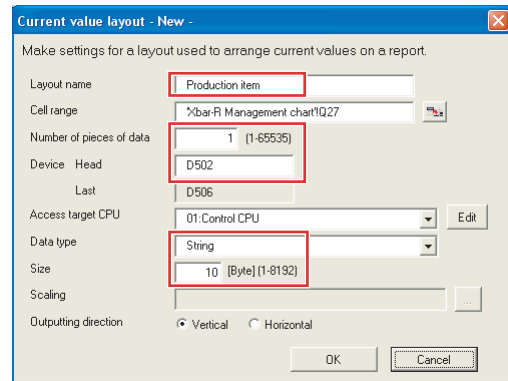
- Select "Current value" for "Adding a new layout", and click the **Add** button.



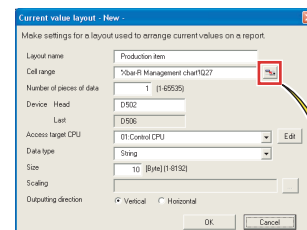
The "Current value layout" screen is displayed.



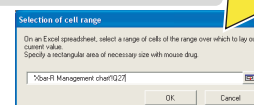
- Specify the data for "Production item" (except for the cell range). Enter data as shown in the screen below.



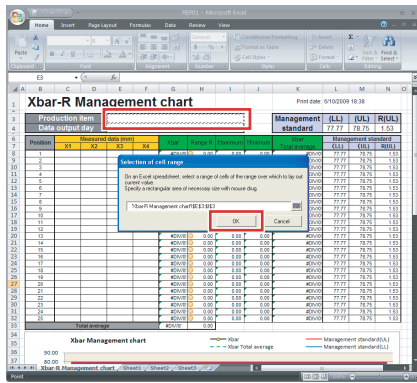
- Click the  (selection of cell range) button.



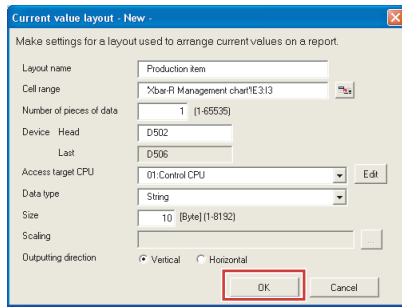
The "Selection of cell range" screen is displayed.



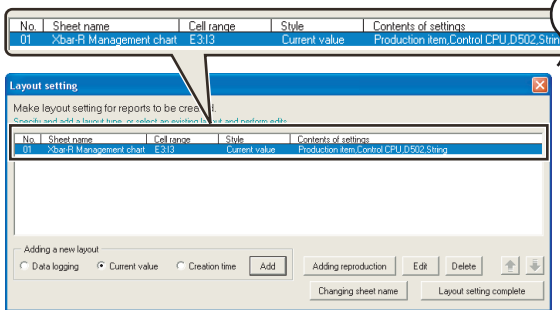
4 Select the cell to the right of "Production item" and click the **OK** button.



5 Click the **OK** button.



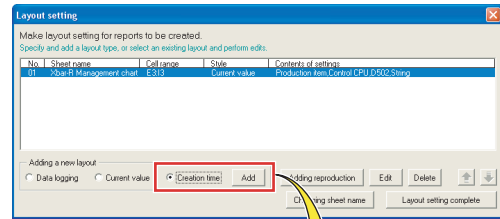
The current value layout is added to the list on the "Layout setting" screen.



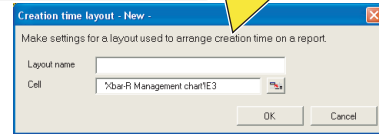
STEP 2-6 Specify the data output day

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

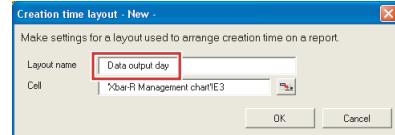
1 Select "Creation time" and click the **Add** button.



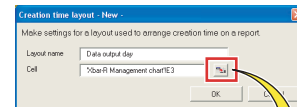
The "Creation time layout" screen is displayed.



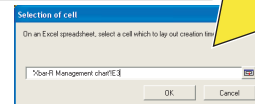
2 Enter "Data output day" for the layout name.



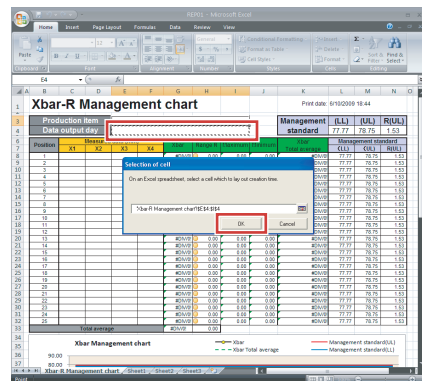
3 Click the  (selection of cell) button.



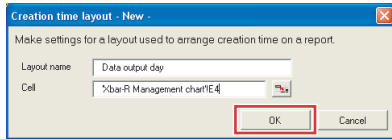
The "Selection of cell" screen is displayed.



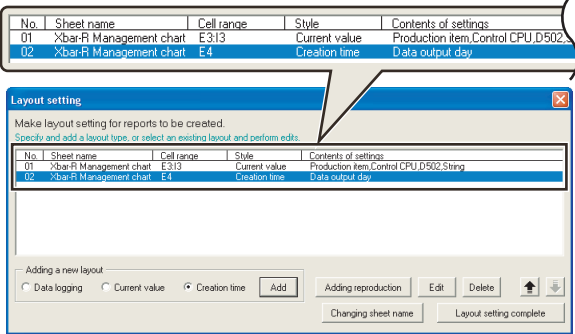
4 Select the cell to the right of "Data output day" and click the **OK** button.



5 Click the **OK** button.



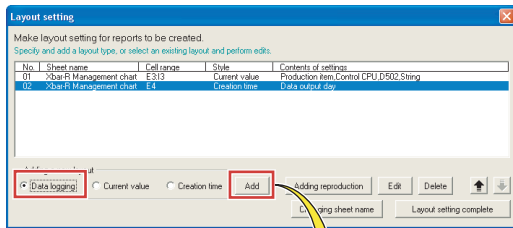
The creation time layout is added to the list on the "Layout setting" screen.



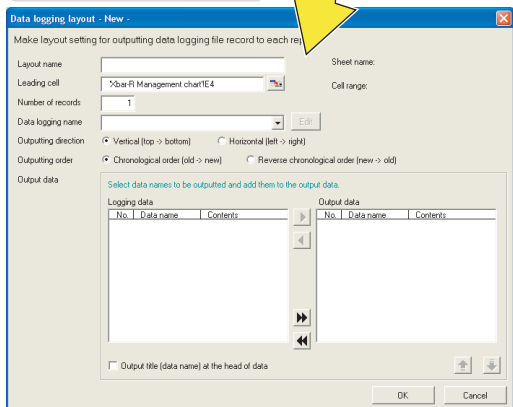
STEP 2-7 Specify the logging data

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

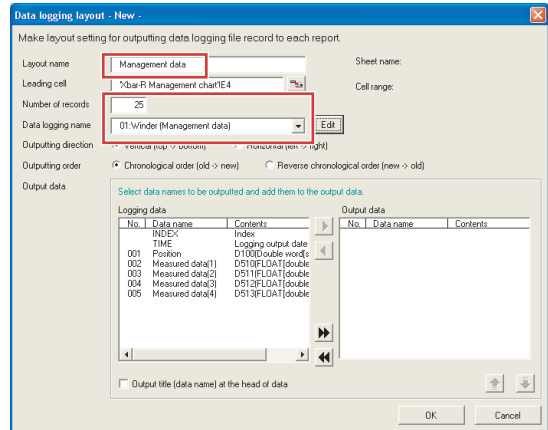
1 Select "Data logging" and click the **Add** button.



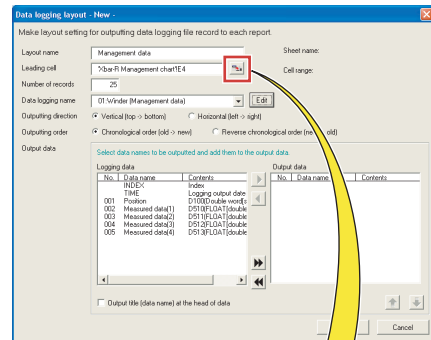
The "Data logging layout" screen is displayed.



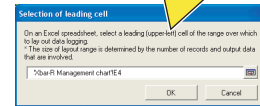
2 Specify the data used for data logging (except for the leading cell and output data).
Enter data as shown in the screen below.



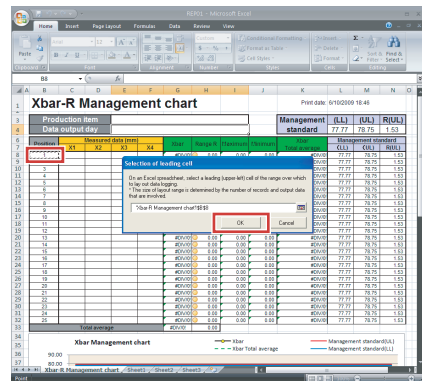
3 Click the  (selection of leading cell) button.



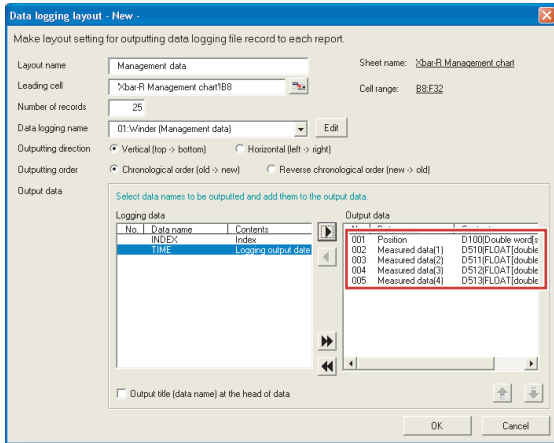
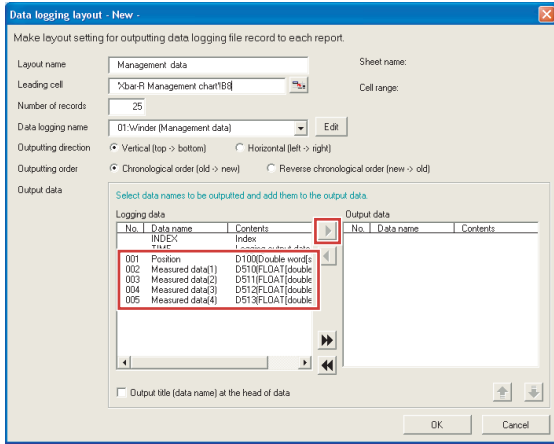
The "Selection of leading cell" screen is displayed.



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".

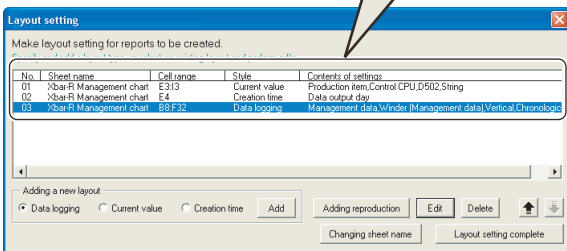


- 6 Click the button on the "Data logging layout" screen.



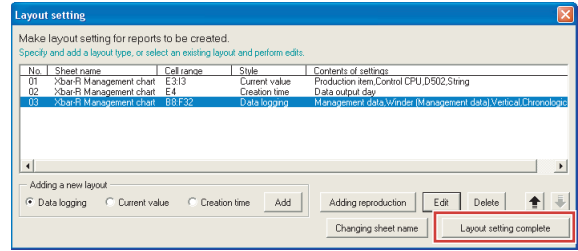
The data logging layout is added to the list on the "Layout setting" screen.

No.	Sheet name	Cell range	Style	Contents of settings
01	Xbar-R Management chart	E:3:13	Current value	Production item,Control CPU,D502,String
02	Xbar-R Management chart	E:4	Creation time	Data output day
03	Xbar-R Management chart	B8:F32	Data logging	Management data,Winder (Management data),Vertical,Chronologic

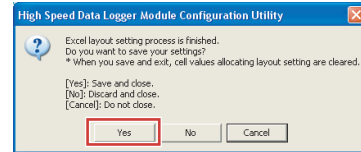


STEP 2-8 Finish the layout settings

- 1 Click the button.

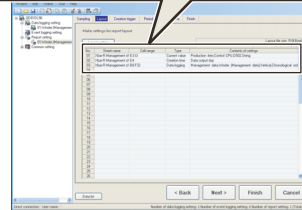


- 2 Click the button.



Three layout settings are added to the layout setting list.

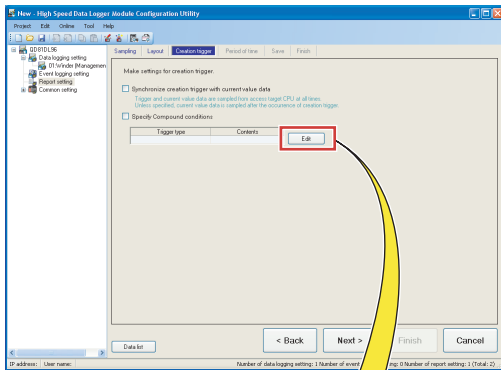
No.	Sheet name	Cell range	Type	Contents
01	Xbar-R Management of E:3:13		Current value	Production item,Control CPU,D502,S
02	Xbar-R Management of E:4		Creation time	Data output day
03	Xbar-R Management of B8:F32		Data logging	Management data,Winder (Management



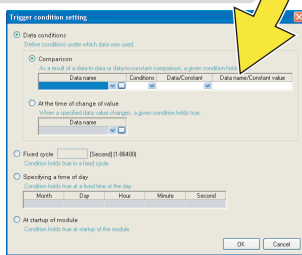
- 3 Click the button.

STEP 2-9 Configure trigger settings

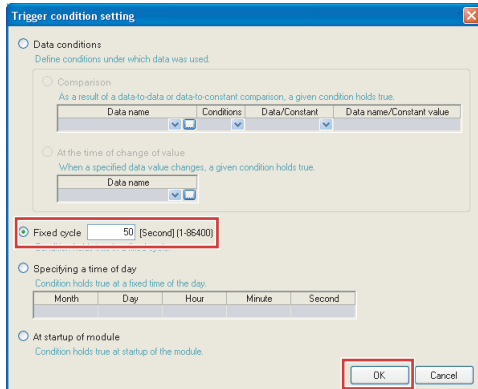
1 Click the **Edit** button.



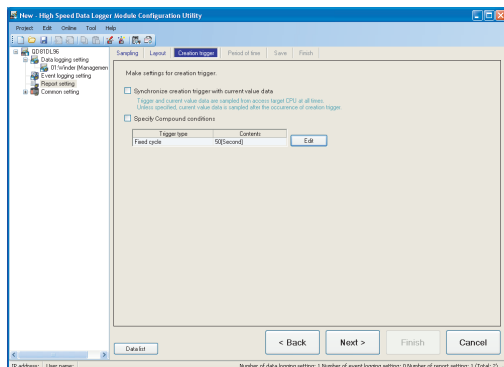
The "Trigger condition setting" screen is displayed.



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



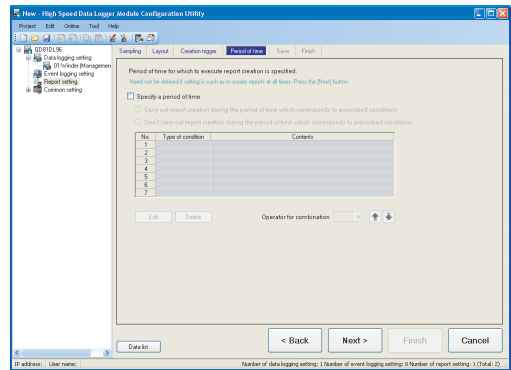
The specified condition is applied to the wizard screen.



3 Click the **Next >** button.

STEP 2-10 Set the report creation periods

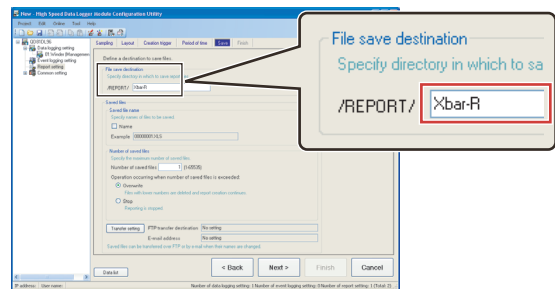
Use the default settings for the report creation periods.



1 Click the **Next >** button.

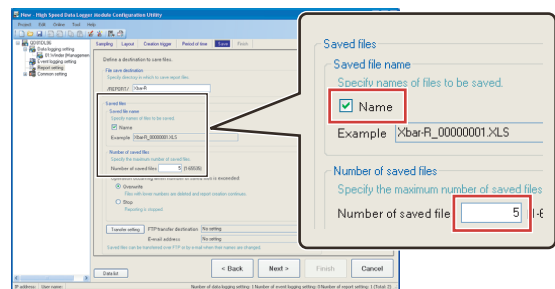
STEP 2-11 Configure the save settings

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



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

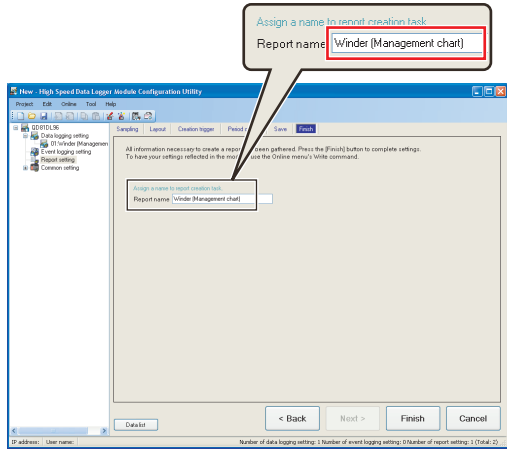
2 Check "Name" under "Saved file name", and enter "5" for the number of saved files.



3 Click the **Next >** button.

STEP 2-12 Enter the report name

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

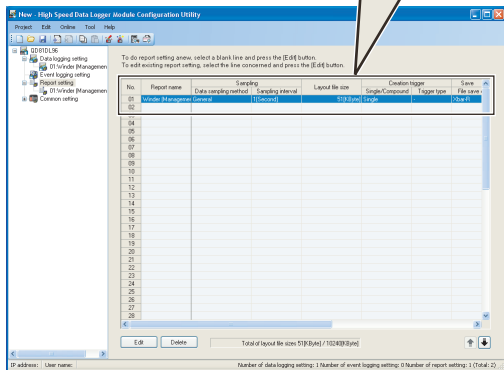


2 Click the **Finish** button.



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

No.	Report name	Sampling		Layout file size	Single
		Data sampling method	Sampling interval		
01	Winder (Management)	General	1[Second]	51[KByte]	Single



▶ End

Operation of the high speed data logger module

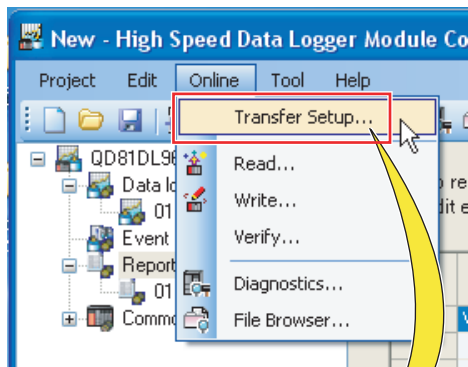
CASE 2

STEP 3 Write settings

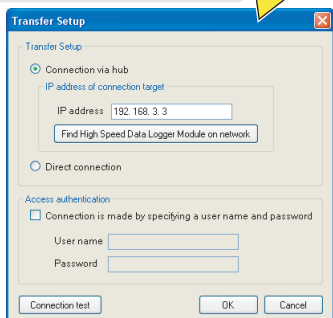
Write the data logging and report settings configured in STEP 1 and 2 to the high speed data logger module.

STEP 3-1 Specify the target module

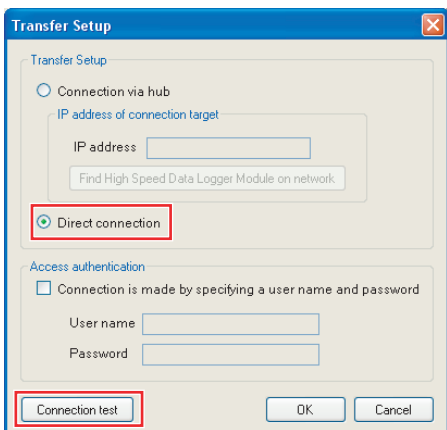
1 Select [Online] → [Transfer Setup].



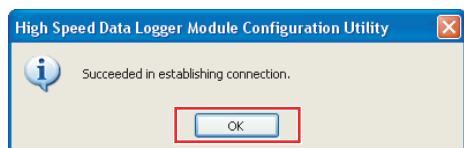
The "Transfer Setup" screen is displayed.



2 Select "Direct connection" and click the button.



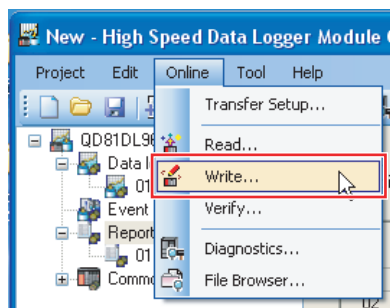
3 Click the button.



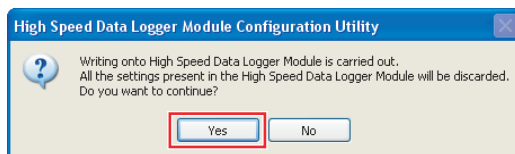
4 Click the button on the "Transfer Setup" screen.

STEP 3-2 Write the settings

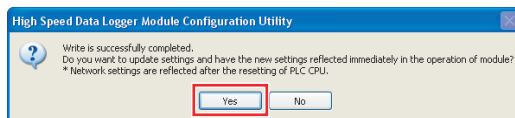
1 Select [Online] → [Write].



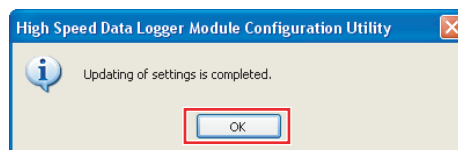
2 Click the button.



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))

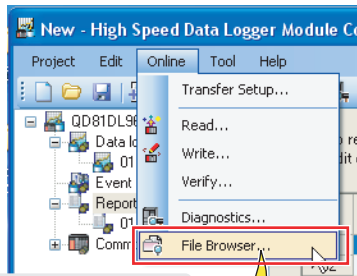
▶ End

STEP 4 Checking created report

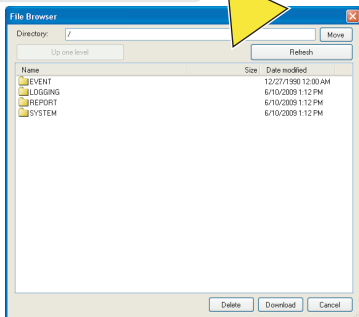
Use Excel to check the report created in STEP 3.

STEP 4-1 Download the report file

1 Select [Online] → [File Browser].

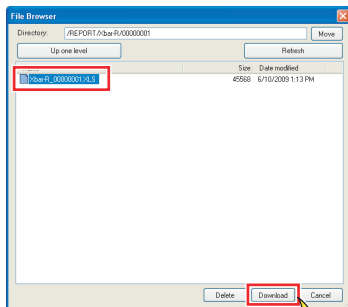


The "File Browser" screen is displayed.

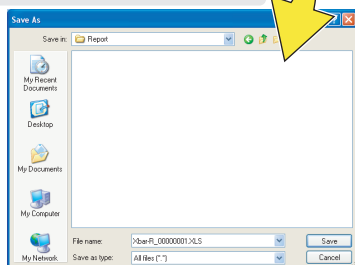


2 Specify the folders in the order of "REPORT", "Xbar-R", and "00000001".

3 Select "Xbar-R_00000001.XLS" and click the button.



The "Save As" screen is displayed.



Click the button when "Xbar-R_00000001.XLS" is not displayed in the list.

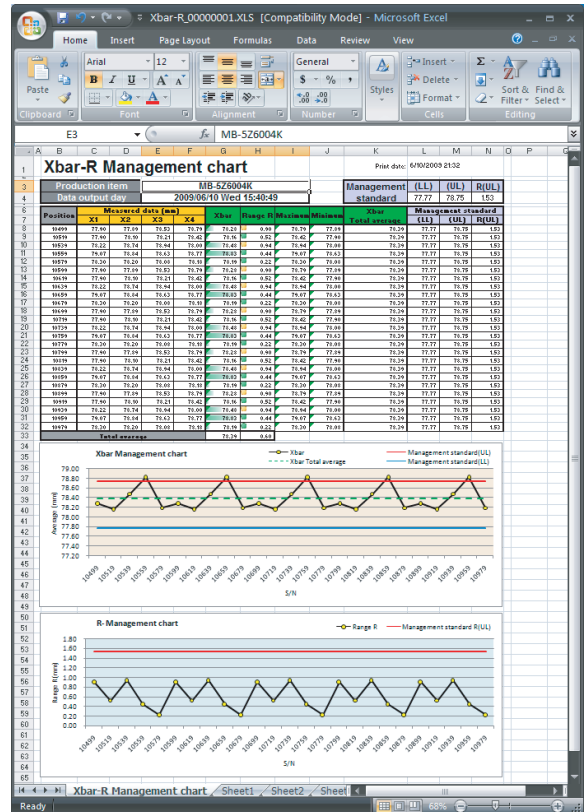
4 Specify the save destination on the "Save As" screen (option), and click the button.

5 Click the button on the "File Browser" screen.

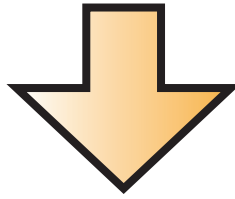
STEP 4-2 Check the report on EXCEL

1 Open the downloaded "Xbar-R_00000001.XLS".

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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Mitsubishi Electric Programmable Controllers

High Speed Data Logger Module

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