



Daily Monthly ReportSoftware
EcoMeasureIII
MODEL

MES3-SW1-DR-FR **(English Version)**

User's manual (Detailed version)

- Before operating the instrument, you should first read thoroughly this operation manual for safe operation and optimized performance of the product. Deliver this user's manual to the end user.

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CHAPTER 1 INTRODUCTION

Thank you very much for purchasing this Daily Monthly Report Software (EcoMeasure III).

This user manual explains the setting procedure and usage which are necessary to operate the Daily Monthly Report Software (hereinafter abbreviated as “this software”) for EcoWebServer III (hereinafter abbreviated as “subsystems”).

This user manual explains the operation with the assumption that the user of this software is familiar with the basic operations of Windows.

Please refer to the manual or other documents of the used operating system if in doubt about the basic operations of Windows.

1.1 Features

This software is the exclusive software for creating the report easily from the logging file (in CSV file format) that is collected and stored by the subsystem.

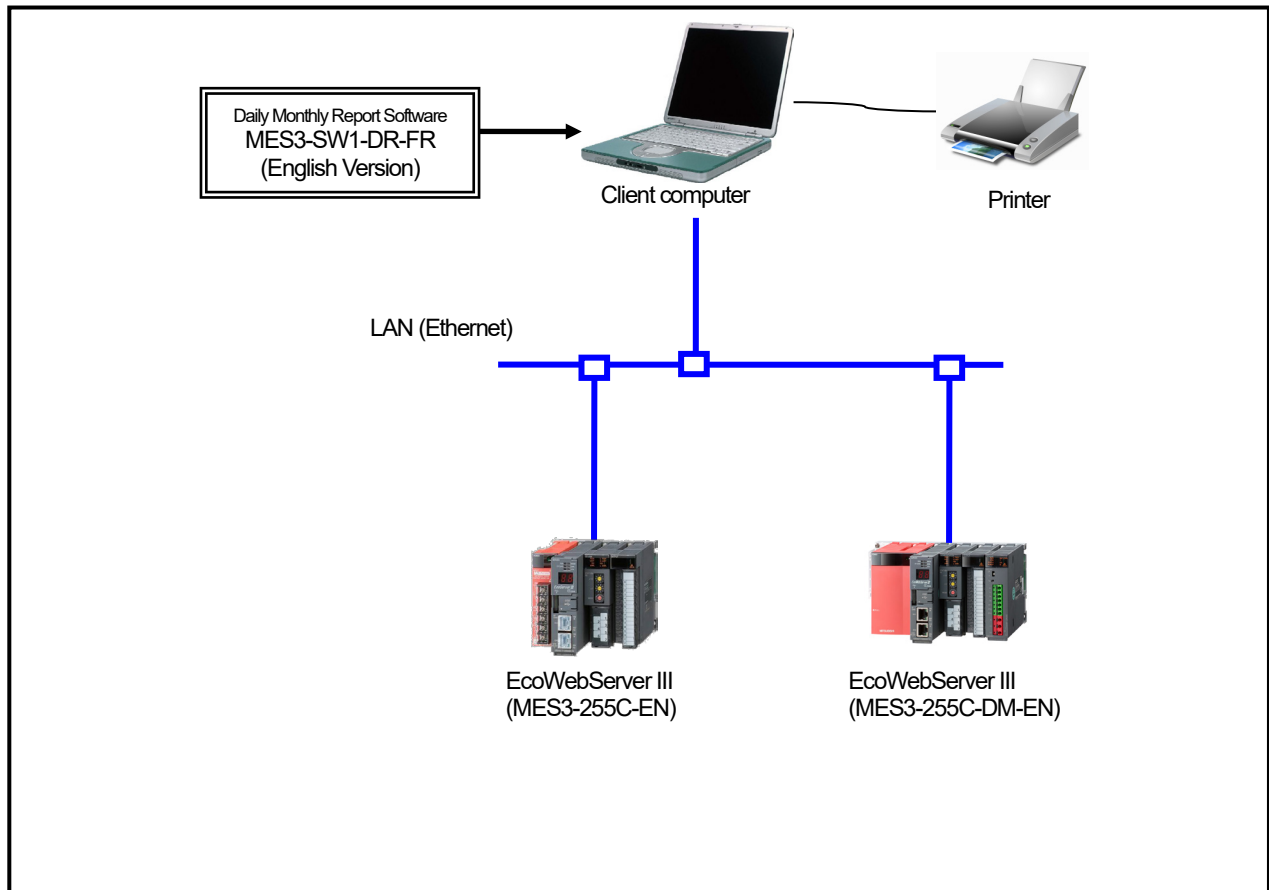
This software has the following features.

- (1) Simple operation
By adopting the standard Windows interface, the software can be operated simply using a mouse.
- (2) Simple setting
Only the simple system settings are necessary to calculate the specific consumption, and create the report.
- (3) Manual entry of the data
Using the virtual measuring point for entry, you can manually enter the daily (on an hourly basis) or monthly (on a daily basis) production quantity.
It is also possible to create the report.
- (4) Creation of daily, monthly, and annual reports
It is possible to create the daily report, monthly report, and annual report based on the various measured data.

1.2 Configuration and overview of functions

1.2.1 System configuration

The following shows an example of the system configuration of this software.



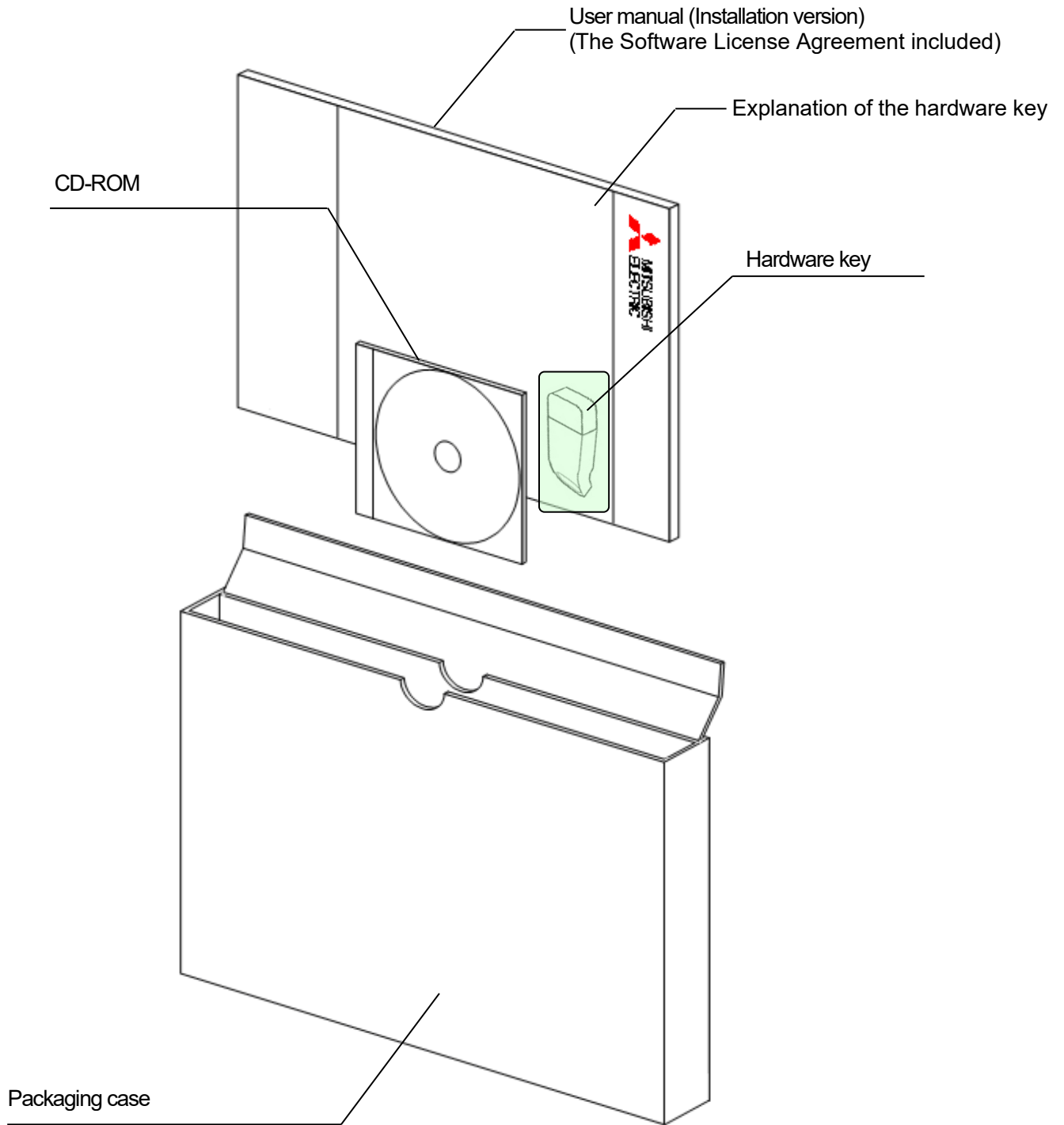
- * Devices other than this software are sold separately and should be prepared by the customer.
- * Refer to the user manual supplied with the subsystem for the usage of each subsystem or the connection method of the subsystem to the computer.
- * It is possible to use up to 8 subsystems with a computer connected on the same LAN.
- * MES3-255C-DM-EN is counted as 2 subsystems.


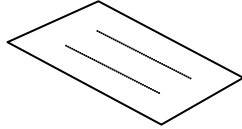
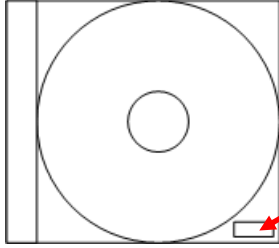
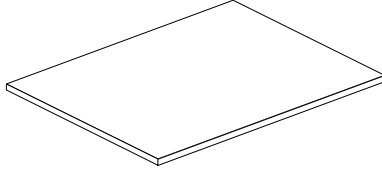
1.2.2 Overview of functions

| Function | Details | Notes |
|---------------------|--|---------------|
| Setup function | <ul style="list-style-type: none"> ● Subsystem setting This item sets the project name, IP address, and measuring point information of the subsystem. ● Virtual measuring point setting This item sets the virtual measuring point (virtual measuring point group) information used in the report and the specific consumption setting. There are two types of the virtual measuring point: calculation and entry. ● Specific consumption setting This item sets the specific consumption information used in the report. ● Report setting This item sets the measuring point to be output in the report. ● System setting This item sets the usage environment of this software. | See Chapter 4 |
| Collection function | <ul style="list-style-type: none"> ● Data collection Logging file is collected from the subsystem via the LAN. The collected logging file is stored in the logging file storage location path specified for each subsystem. | See Chapter 5 |
| Entry function | <ul style="list-style-type: none"> ● Data entry This item inputs the daily or monthly data of the registered virtual measuring point. | See Chapter 6 |
| Creation function | <ul style="list-style-type: none"> ● Creation of the report This item creates the daily, monthly, and annual reports. | See Chapter 7 |

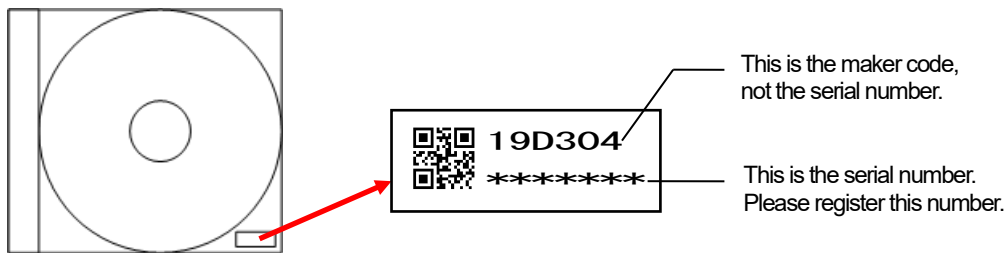
1.3 Package contents

This software is packed as shown below.
After unpacking the software, check the contents.



| Name | Quantity | Appearance | Notes |
|---|----------|---|--|
| Hardware key | 1 |  | Necessary when using the software. |
| Explanation of the hardware key | 1 |  | The manual explaining the handling of the hardware key. |
| CD-ROM | 1 |  | The installation program of the Daily Monthly Report Software, the device driver of the hardware key, and the user manual are stored. The sticker showing the serial number is attached on the CD case.* |
| User manual (Installation version) English | 1 |  | The user manual explaining the installation procedure of this software. Refer to the User manual (Detailed version) contained in the CD-ROM for details of the procedures of operation and setting. |
| User manual (Installation version) Simplified Chinese | 1 | | |

* The serial number is necessary when performing the user registration on the Internet. Please check the sticker on the CD case.



Cautions

- This software can be installed only on one computer.
- Unpack the software and check that all the contents described above are supplied. If there are any problems such as missing items, erratic pagination, and missing pages, please contact your nearest branch office or sales office.

1.4 Specifications

| Item | | Details | |
|-----------------------------|---------------------------------|--|---|
| Setup function | Subsystem setting | | Registration of the subsystem to be used (up to 8) |
| | Virtual measuring point setting | | Registration of the virtual measuring point (virtual measuring point group) to be used in the report and specific consumption setting |
| | | Number of registration points | Up to 100 points Virtual measuring point : Up to 95 points (Total number of points of all manual entry and calculation of measuring point) Virtual measuring point group : Up to 5 groups |
| | | Virtual measuring point | Four arithmetic operations of up to 64 measuring points are set as the virtual measuring point. |
| | | Virtual measuring point group | Adds-subtracts of up to 32 virtual measuring points is set as the virtual measuring point group. (Virtual measuring point for calculation only) |
| | Specific consumption setting | | Registration of the specific consumption to be used in the report |
| | | Number of registration points | Up to 100 points |
| | | Energy amount Production amount | Selected from the measuring point and virtual measuring point (virtual measuring point group) |
| | Report setting | | Setting of the report format |
| | | Number of output items | Daily report Up to 2250 items 15 items/sheet x 150 sheets |
| | | | Monthly report Up to 2250 items 15 items/sheet x 150 sheets |
| | | | Annual report Up to 2250 items 15 items/sheet x 150 sheets |
| | | Output item | Selected from the measuring point, virtual measuring point (virtual measuring point group), and specific consumption |
| | System setting | | Setting the storage destination path for the daily report file Setting the storage destination path for the monthly report file Setting the storage destination path for the annual report file |
| | Data collection setting | Collection at start-up | |
| Passive mode | | Setting for whether or not to use the passive mode when the EcoServer is connected | |
| Storage period | | Setting of the storage period for each file type | |
| | | Daily Monthly | 1 to 36 months (Default: 24 months) 1 to 5 years (Default: 3 years) |
| Processing schedule setting | | Setting for the date and time of processing (closing date and time) of the report | |
| Data collection function | File collection | | Collection of the logging file stored in the subsystem via the LAN |
| | | Collection timing | Time for the collection specified by the user At the software start-up At editing of the report (excluding the annual report) |
| | File storage | | Storage to the path specified for each subsystem |
| | | Daily Monthly | Data of up to 36 months (Variable from 1 to 36 months) Data of up to 5 years (Variable from 1 to 5 years) |
| Timing of file deletion | | Logging files are deleted in order when they exceed the number of storage days. | |
| Data entry function | Daily data entry | | Enters the hourly data of one day for the virtual measuring point for manual entry. (You can enter the data of up to 1 month ahead.) |
| | Monthly data entry | | Enters the daily data of one month for the virtual measuring point for manual entry. (You can enter the data of up to 1 year ahead.) |
| | Batch entry of monthly data | | Batch entry of the daily data for the specified date for the virtual measuring point for manual entry (You can enter the data of up to 1 year ahead.) |
| Report creation function | Daily report | | Creates a daily report of the specified date and saves it in Excel format. |
| | Monthly report | | Creates a monthly report of the specified month and saves it in Excel format. |
| | Annual report | | Creates an annual report of the specified year and saves it in Excel format. |
| Maintenance function | Back-up | | Makes backup of the setting value and data to a folder. |
| | Restore | | Restores the setting value and data backed up in the specified folder. |

1.5 Storage

Avoid storage of the hardware key and CD-ROM in the places as described below.

- Places where the ambient temperature exceeds the range of 5° to 45°C
- Places where the daily average temperature exceeds 35°C
- Places where the ambient humidity exceeds the range of 10 to 90% RH, or places where condensation exists
- Places exposed directly to rain, water droplets, or sunlight, or places close to heating appliances
- Places subject to frequent vibration or impacts
- Places where a large amount of dust, corrosive gases, salinity, or soot exists
- Places where pieces of metal or similar substances are scattered
- Places where there is a strong magnetic field or a high exogenous noise

1.6 After-sales service

If a defect in quality is found within one year from the purchase of the product, or within 18 months of its manufacture, whichever is earlier, and the responsibility for the cause of such defect lies with Mitsubishi Electric Corporation, we will provide a replacement with no charge.

However, a charge will be made for the replacement in the cases as listed below even within one year after the purchase.

- When the defect arises from an incorrect operation
- When the defect arises from a misuse

In addition, a charge will be made for the service maintained for the product purchased before more than one year.

1.7 Disposal

Dispose of the product in compliance with the laws and regulations determined by the local government.

CHAPTER 2 PREPARATIONS FOR USE

To operate this software, **Microsoft Excel is separately required** on the computer to which the software is installed.

For the usable versions of Microsoft Excel, see the operating environment listed below.

2.1 Operating environment

The system environment necessary for this software to operate correctly is as shown below.

| Item | Details |
|------------------------|---|
| OS (basic software) | English version of Microsoft Windows 8.1 Pro(32bits/64bits) English version of Microsoft Windows 10 Pro(32bits/64bits) |
| Required software*1 | English version of Microsoft Excel 2013 SP1 (32bits,64bits) / 2016(32bits,64bits) / 2019(32bits,64bits) |
| CPU | For Windows 8.1 or Windows 10: As recommended for the operating system |
| Memory*2 | As recommended for the operating system |
| Hard disk*2 | Software: Approx. 100 MB or more, Data: 8 GB or more*3 |
| CD-ROM drive | 1 drive (for installing the software) |
| LAN | 10/100/1000BASE-T ×1 |
| USB connector (Type A) | 1 connector (for connecting the hardware key) |
| Display resolution | 800×600 pixels or more |
| Display color | 256 colors or more |

*1 Excel purchased and downloaded at Microsoft Store can not be used. Please use packaged version.

*2 Note that the required memory and available hard disk space may vary depending on the system environment.

*3 Shows the capacity required when the product is used with 8 subsystems connected at the maximum.

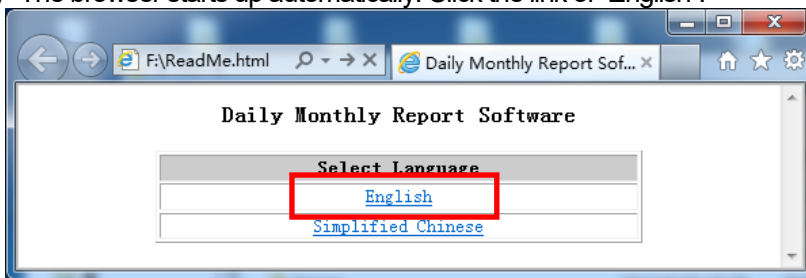
2.2 Installing the software

You can install this software easily using the special installer. When setting up this software for the first time, make sure to read this chapter before executing the set-up.

- * To install the software, it is necessary to log in the computer as a user having an administrator authority.
- * This software can be installed on one client computer.
- * The hardware key is not used during installation. It is used at the startup (during startup).


2.2.1 Preparing for the installation

- (1) Insert the CD-ROM storing this software into the CD drive of the computer.
- (2) The browser starts up automatically. Click the link of "English".



*If the software does not start up automatically, open the CD drive using the Explorer and execute "ReadMe.html."

- (3) The installation screen shown below will be displayed.





Daily Monthly Report Software

EcoMeasureIII Model name: MES3-SW1-DR-FR(English Version)

Software Installation and Instruction Manual CD

- Please read the instruction manual carefully, and use the product properly.
- After reading the manual, keep it at hand for future reference.
- Be sure to deliver this instruction manual to the end user.

| | Item | Contents |
|--------------------|--|---|
| Installation | Step 1  Install Hardware Key Driver | Install EcoMeasureIII hardware key driver. |
| | Step 2  Install Daily Monthly Report Software | Install EcoMeasureIII Daily Monthly Report Software. |
| Instruction Manual | Instruction Manual(Detailed version) | This instruction describes how to install, set up the subsystem settings and report settings, show graph and etc... Detailed instructions for EcoMeasureIII operating. |
| | Instruction Manual(Installation version) | Installation and wiring are explained in this instruction. This instruction is also attached in the packing case. |

The indication of Instruction Manual requires **Adobe Reader®**
If there is not applicable software, please obtain it from the site of Adobe Systems Incorporated.
[Download Adobe Reader](#)

About a trademark

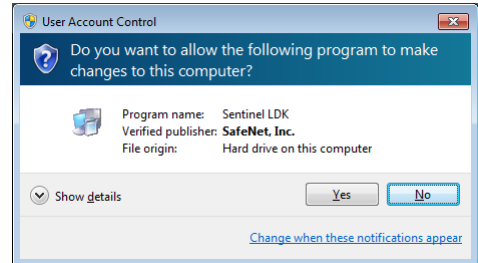
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- Adobe, Adobe Reader and the logo are trademarks of Adobe Systems Incorporated.
- Microsoft, Windows, Internet Explorer and the logo are trademarks of Microsoft Corporation.

MITSUBISHI ELECTRIC CORPORATION

2.2.2 Installing the device driver for the hardware key

- (1) Click on [Install Hardware key Driver] in the installation screen.
Click on the [Run] button to start up the installer.

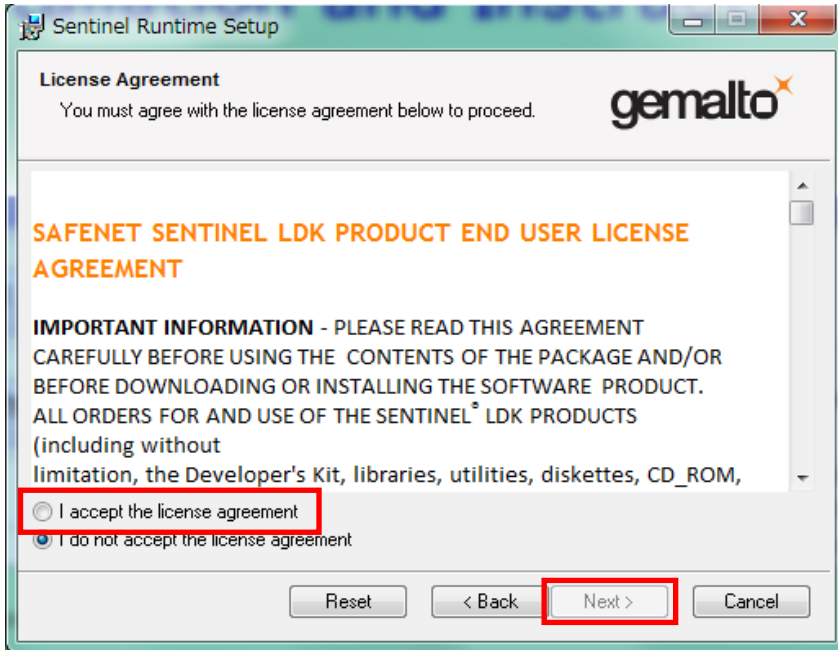
If the user account control screen as shown on the right appears, click on the [Yes] button to continue the installation.



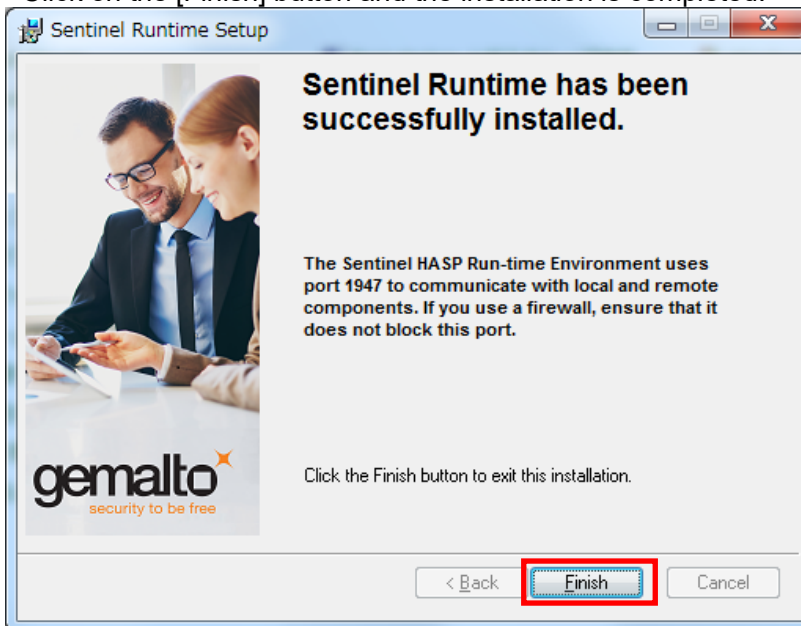
- (2) Click on the [Next] button.



- (3) The screen shown below is displayed.
 The License Agreement is displayed. Select [I accept the license agreement] and click on the [Next] button. The installation is started.



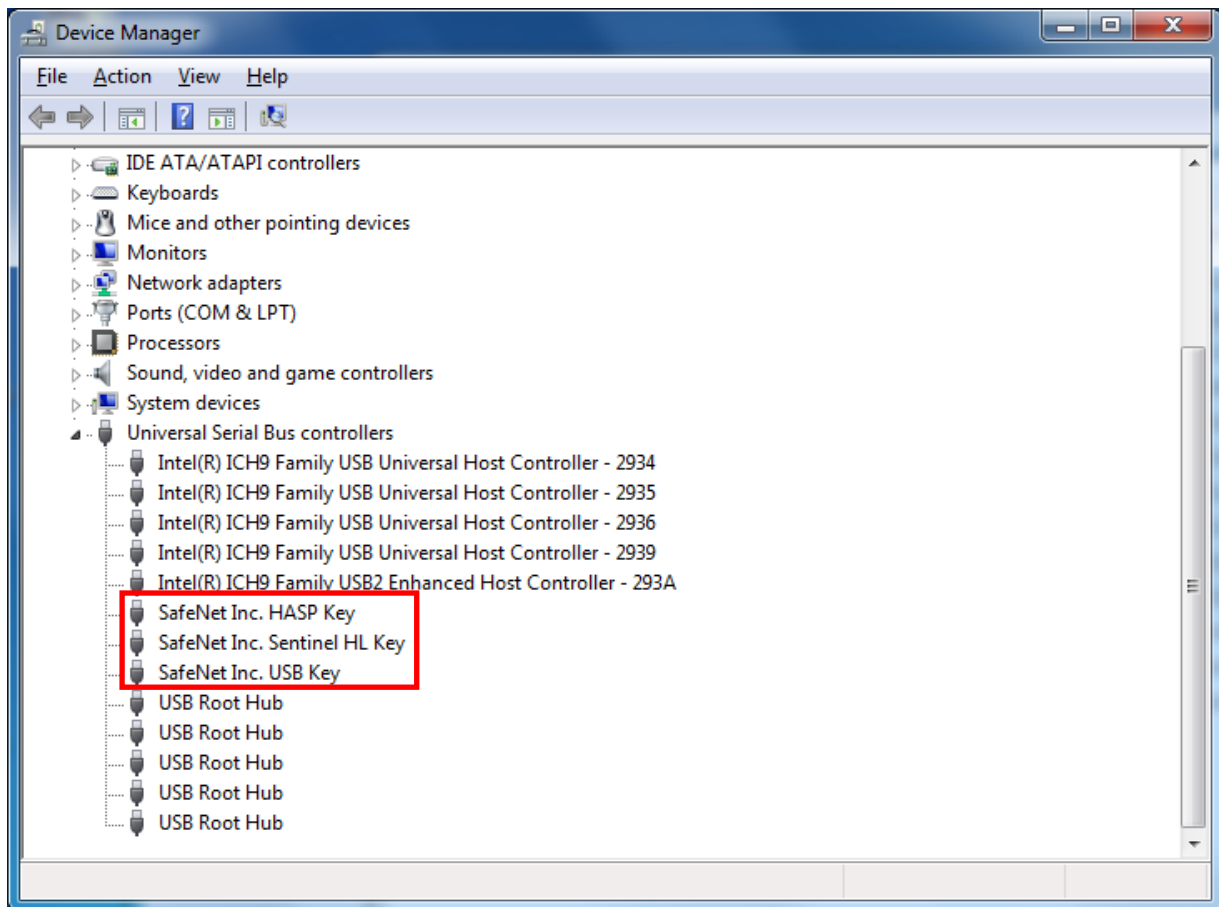
- (4) The completion screen of the installation is displayed.
 Click on the [Finish] button and the installation is completed.



(5) Connecting the hardware key

Connect the hardware key to the USB port on the computer.

Use the Device Manager to check that the hardware key has been recognized.

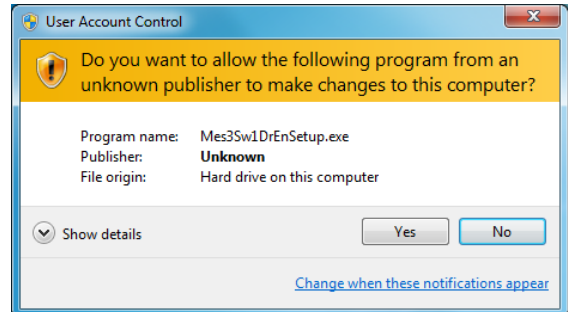


* Refer to the online help or other manuals provided with the used operating system for the procedure to display the Device Manager.

2.2.3 Installing EcoMeasure III

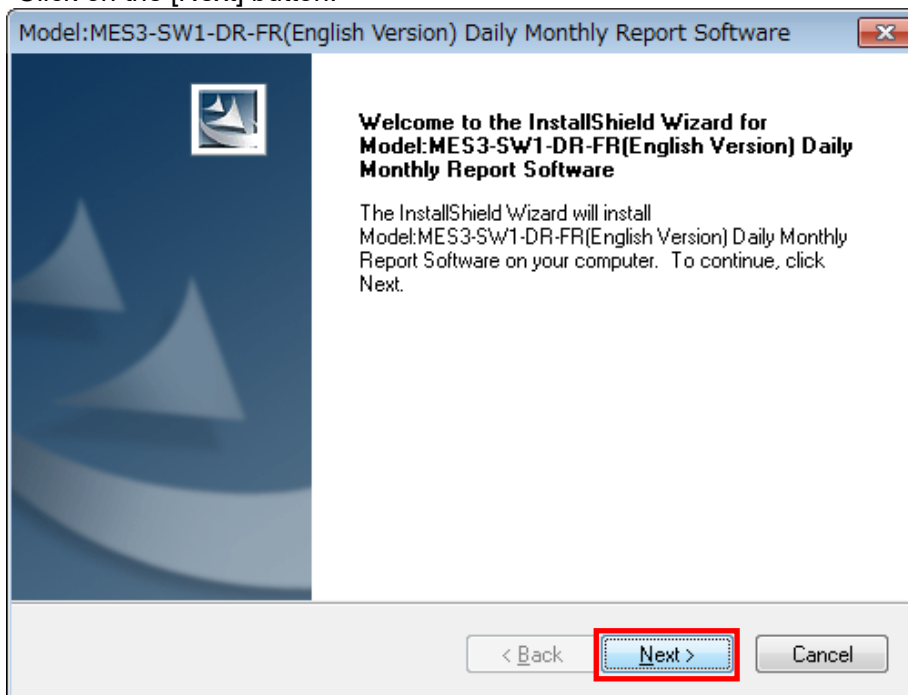
- (1) Click on [Install Daily Monthly Report Software] in the installation screen.
Click on the [Run] button.

* If the screen as shown on the right is displayed, click on the [Yes] button to continue the installation.

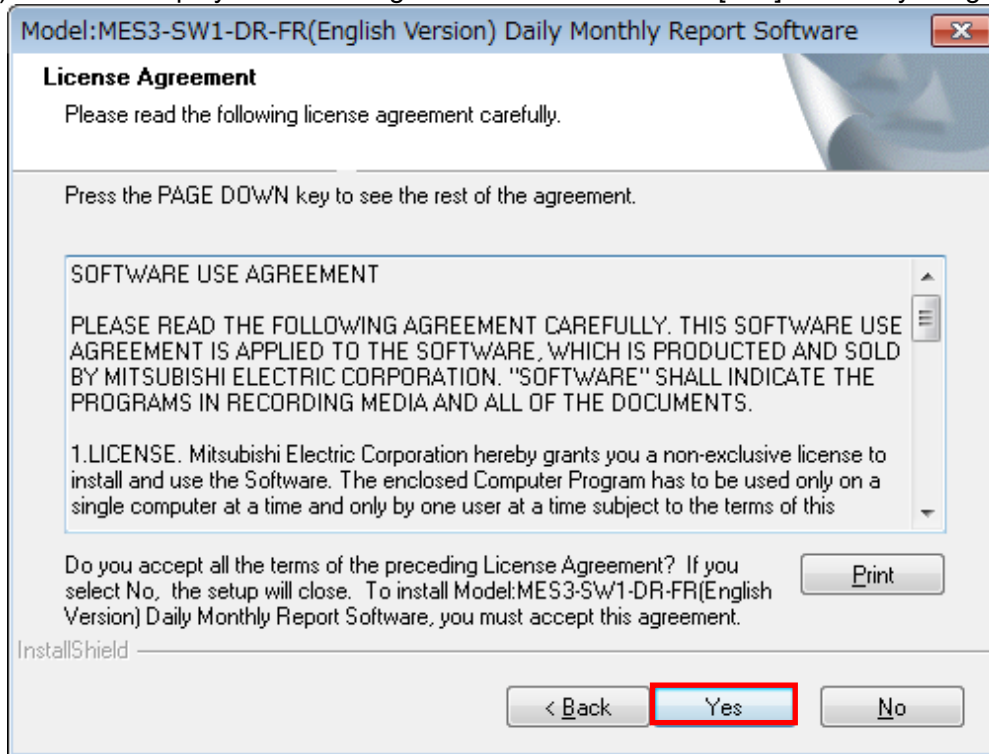


* Please launch [Mes3Sw1DrEnSetup.exe] in [MES3-SW1-DR-EN] folder from explorer when EXE file is not allowed to launch by a HTML.

- (2) The InstallShield Wizard screen for the Daily/Monthly Report Software is displayed.
Click on the [Next] button.

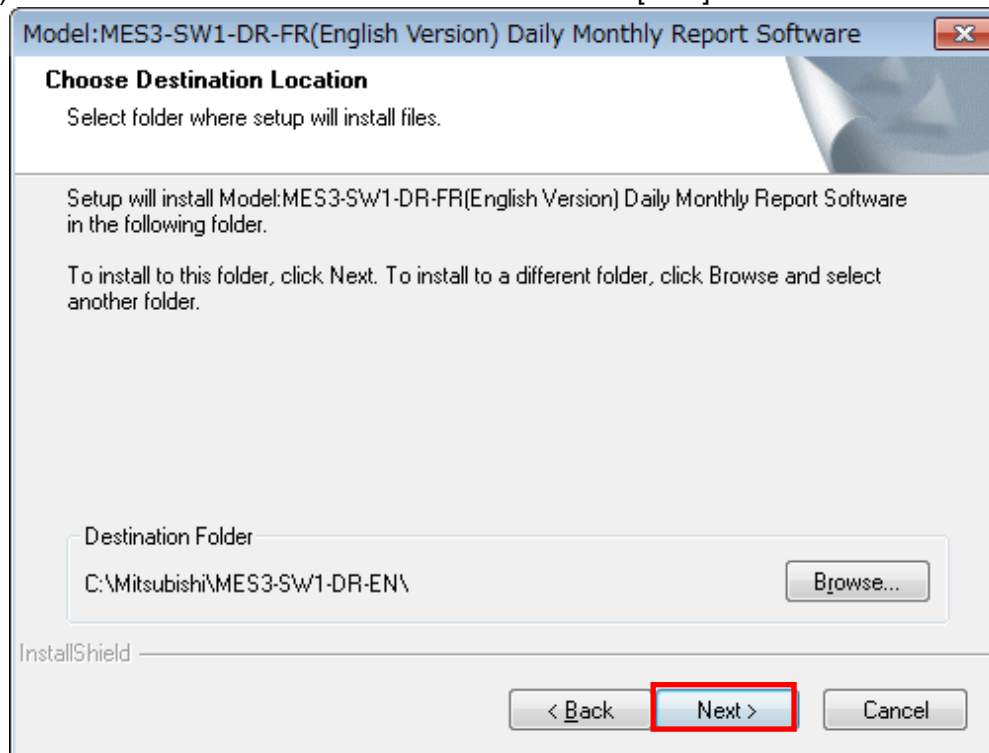


- (3) Read the displayed License Agreement and click on the [Yes] button if you agree with its terms.



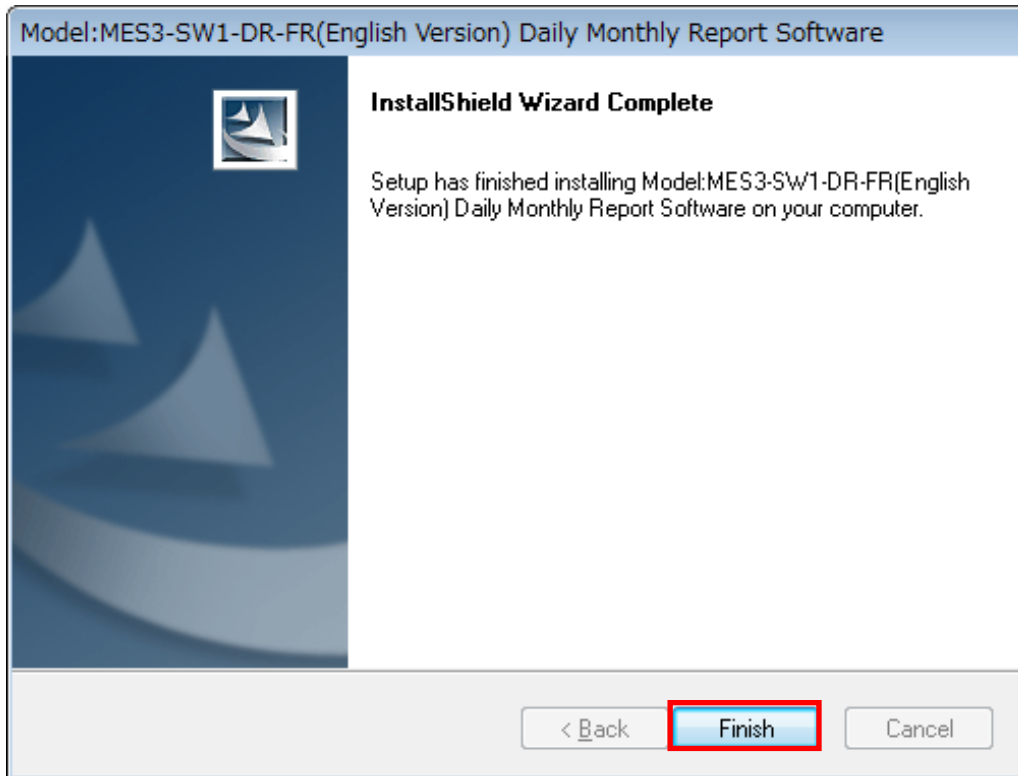
If the [No] button is selected (if you do not agree with the terms of the License Agreement), the installation is terminated.

- (4) Select the installation destination and click on the [Next] button to start the installation.



* By default, the software is installed in "C:\Mitsubishi\MES3-SW1-DR-EN."

- (5) When the screen shown below is displayed, click on the [Finish] button. The installation is completed.



- * Depending on the environment being used, the restart of the computer may be required after the completion of the installation.
In such a case, follow the displayed message and restart the computer.

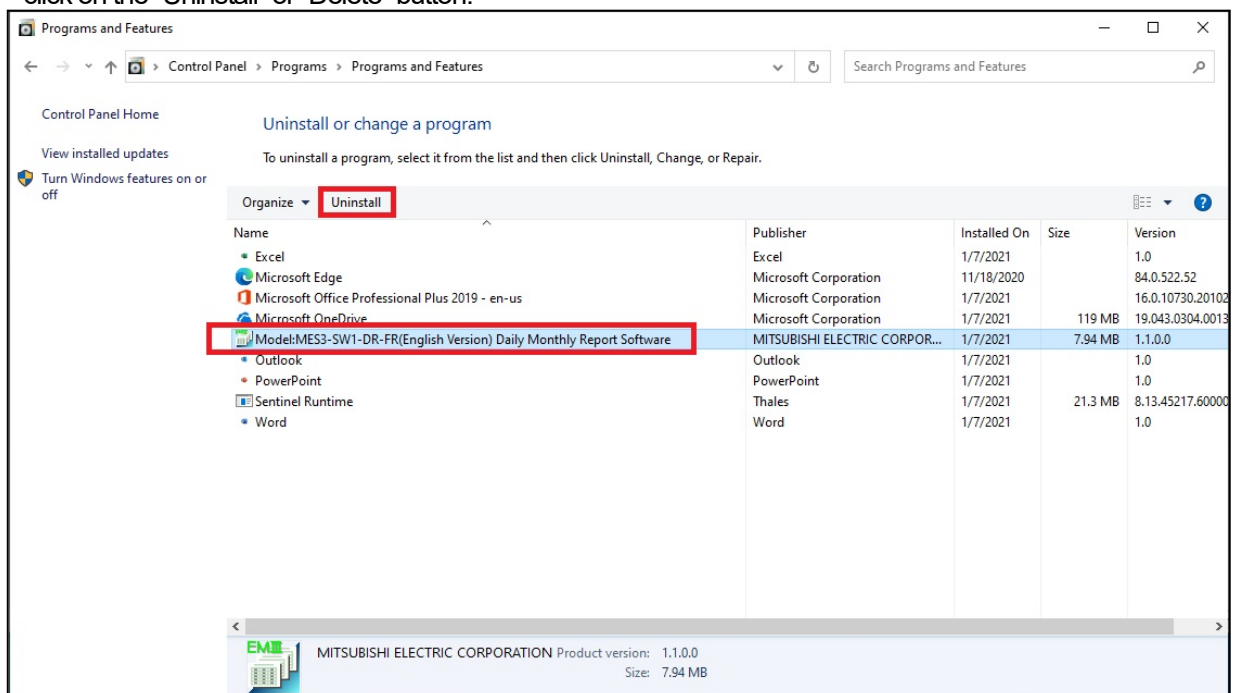
2.3 Uninstalling the software

When this software is no longer necessary, it can be easily deleted from the computer using the installer.

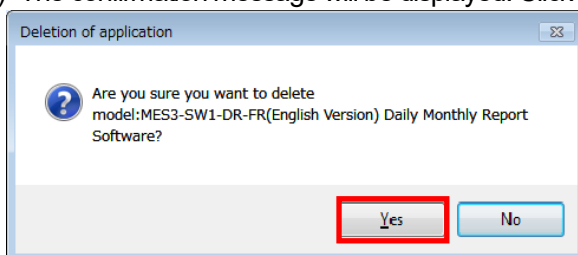
* To uninstall the software, it is necessary to log in the computer as a user having an administrator authority.

2.3.1 Uninstalling EcoMeasure III

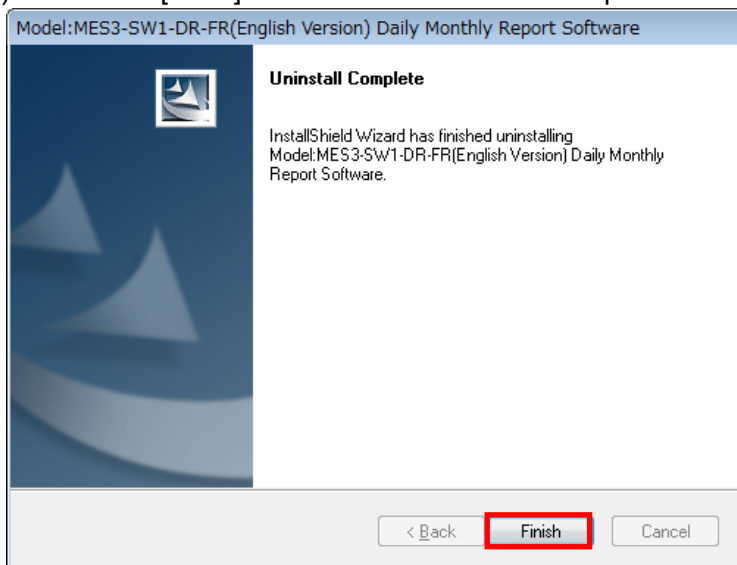
- (1) Open the Control Panel and uninstall the program.
On Windows 8.1 / Windows 10 : Select “Programs” – “Uninstall a program”
- (2) Select “Model: MES3-SW1-DR-FR(English Version) Daily Monthly Report Software” from the list and then click on the “Uninstall” or “Delete” button.



- (3) The confirmation message will be displayed. Click on the [Yes] button. The uninstallation is started.



(4) Click on the [Finish] button. The uninstallation is completed.



* The specific consumption CSV folders and report folders which have been created during use will not be deleted.

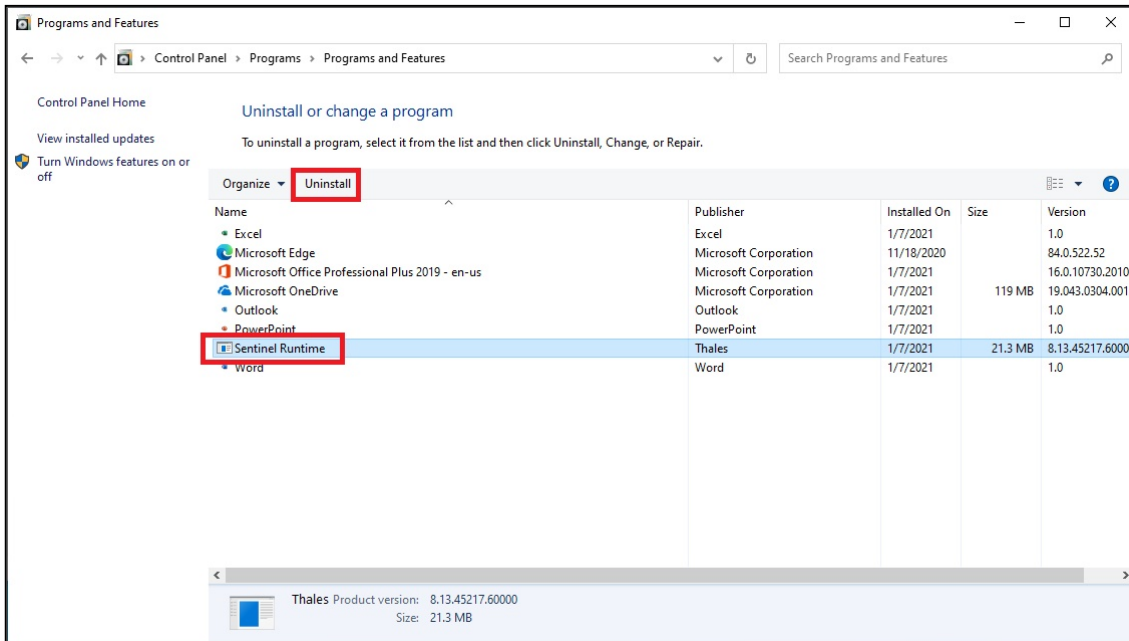
Note that the setting data will be deleted.

2.3.2 Uninstalling the device driver for the hardware key

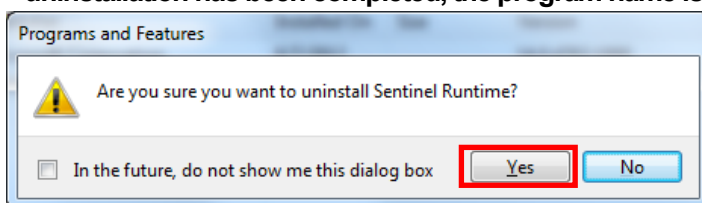
(1) In the Control Panel, select the device driver for the hardware (*) using “Programs” – “Uninstall a program”, and click on the “Uninstall” or “Delete” button.

* The name of the device driver for the hardware differs as shown below depending on the version being used.

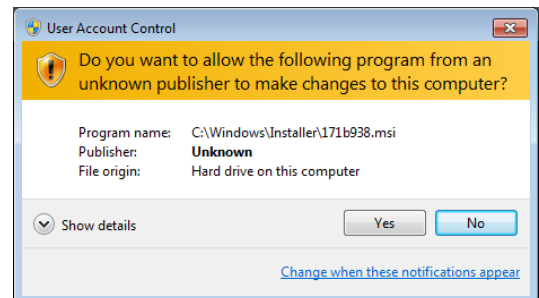
- “Sentinel Runtime”
- “HASP SRM Run-time”
- “HASP HL Drive Driver”
- “HASP Device Driver”



(2) When the confirmation message is displayed, click on the [Yes] button. The uninstallation is executed. **(There is no message displayed to indicate that the uninstallation has finished. When the uninstallation has been completed, the program name is deleted from the list.)**



* If a screen as shown on the right is displayed, click on the [Yes] button to continue the uninstallation.



2.4 Cautions for use

Please be aware of the following when using this software.

- (1) While this software is running, do not open the daily or monthly report file (Excel file) or file collected from the subsystem (CSV file) to be saved.
- (2) Set the same date and time on the subsystems and the computer.
* See "5.1.1 Data collection timing" for details.
- (3) The storage period of the data of the subsystem is limited.
Collect the data periodically because the report of the data saved in the past may not be created due to the expiration.
* When the data is collected and the report is created for the first time, the report of the data of the subsystem which has exceeded the storage period cannot be created.
- (4) To use this software, log in the computer as a user having an administrator authority. Otherwise, the software may not be operated correctly depending on the used environment.

CHAPTER 3 BASIC OPERATIONS

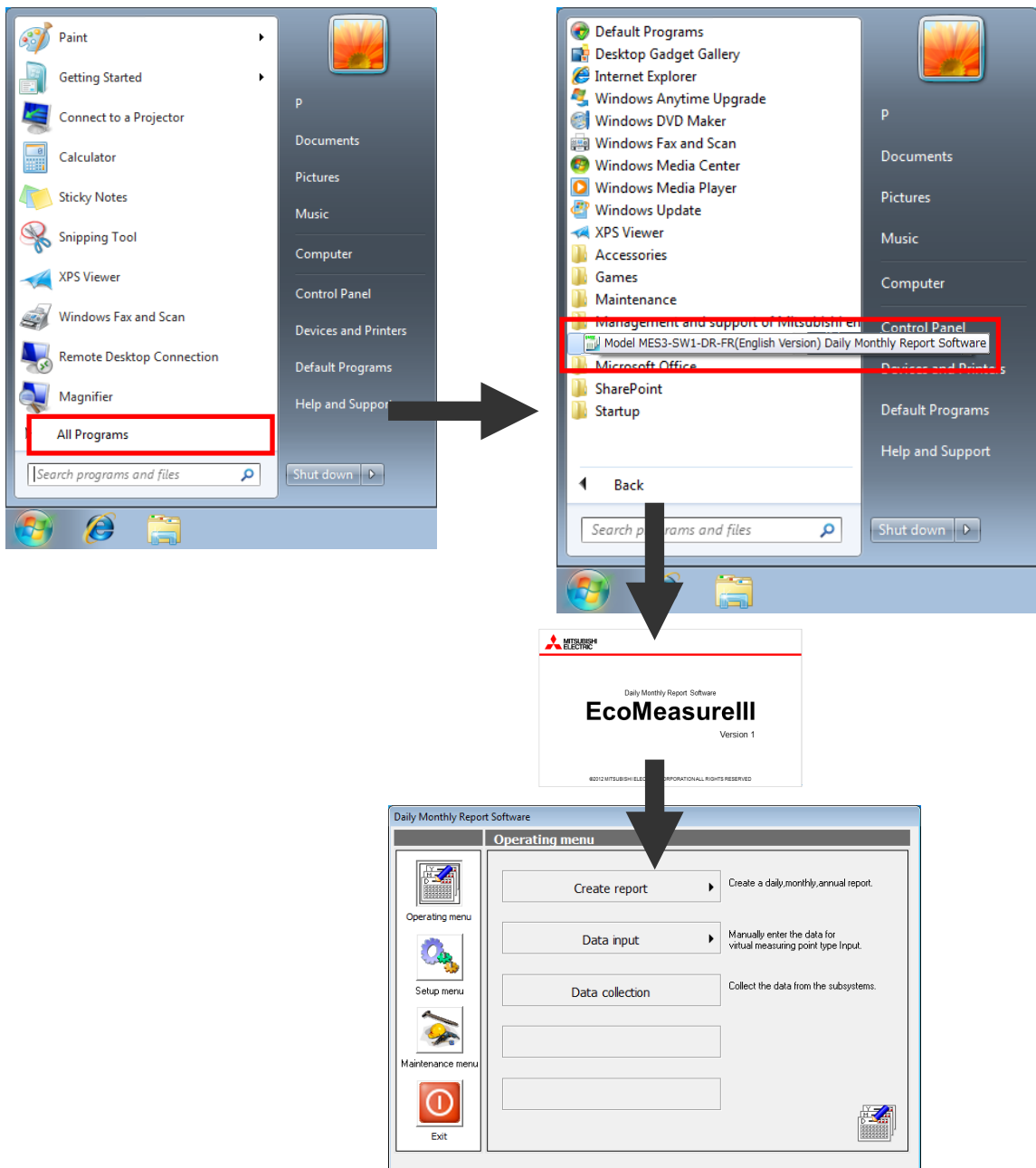
This chapter explains the basic operation of this software.

3.1 Starting up and exiting the software

(1) Starting up the Daily Monthly Report Software

(a) Starting up from the Start Menu

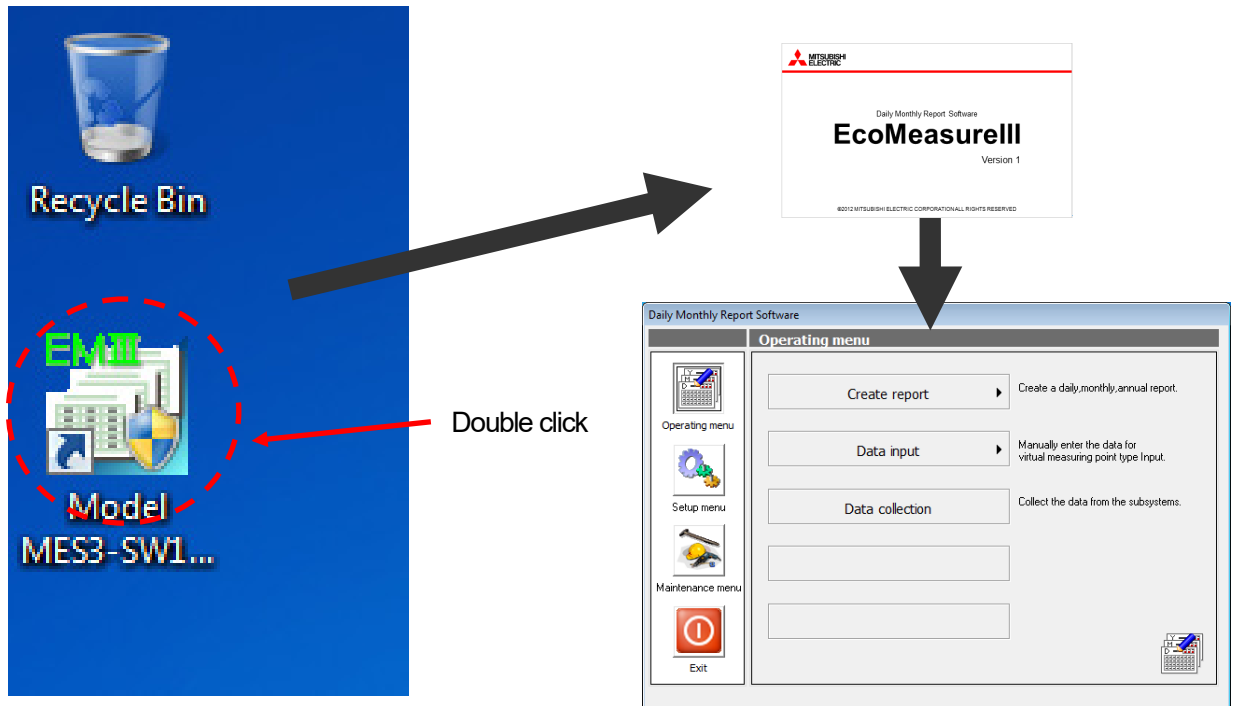
Click on the [Start] menu - [All Programs] - [Management and support of Mitsubishi energy conservation] - [Model MES3-SW1-DR-FR(English Version) Daily Monthly Report Software] to start up the software.



* The actual display of the screen illustrated above varies depending on the operating system being used or the applications being installed.

(b) Starting up from the shortcut on the desktop

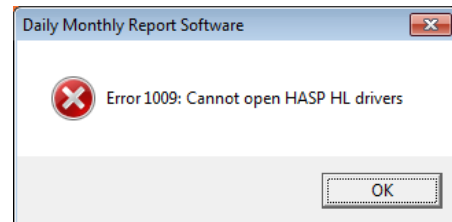
Double click on the “Model MES3-SW1-DR- FR(English Version) Daily Monthly Report Software” shortcut shown on the desktop to start up the software.



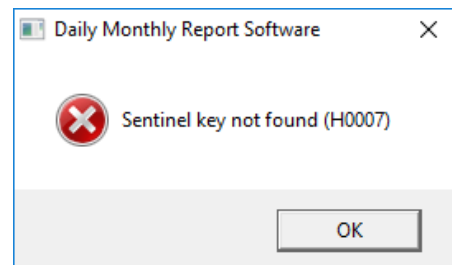
* The actual display of the screen illustrated above varies depending on the operating system being used or the applications being installed.

* When the software cannot be started up

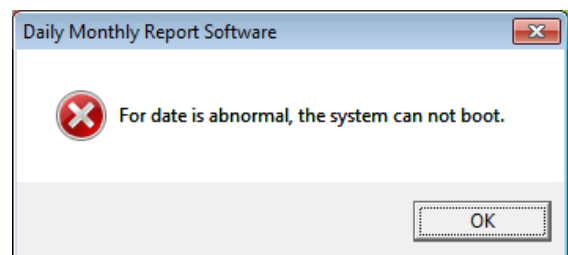
The message shown on the right is displayed if the driver for the hardware key has not been installed. Install the device driver for the hardware key.



The message shown on the right is displayed if the hardware key is not connected. Connect the hardware key to the USB port.

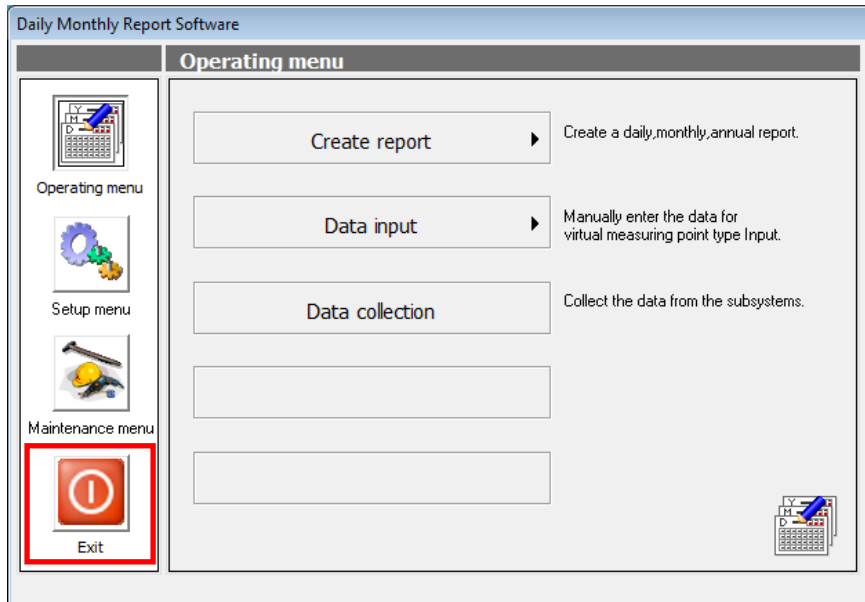


The message shown on the right is displayed if the system clock on the computer is set to the date before April 1, 2004. Change the system clock on the computer to a date after April 1, 2004.

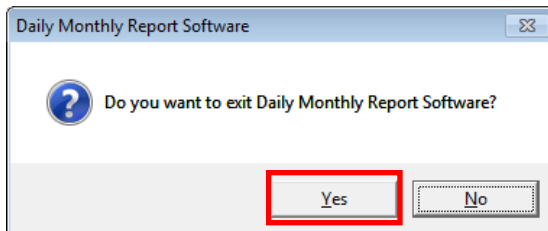


(2) Exiting the Daily Monthly Report Software

[1] Click on the [Exit] button in the main menu screen.



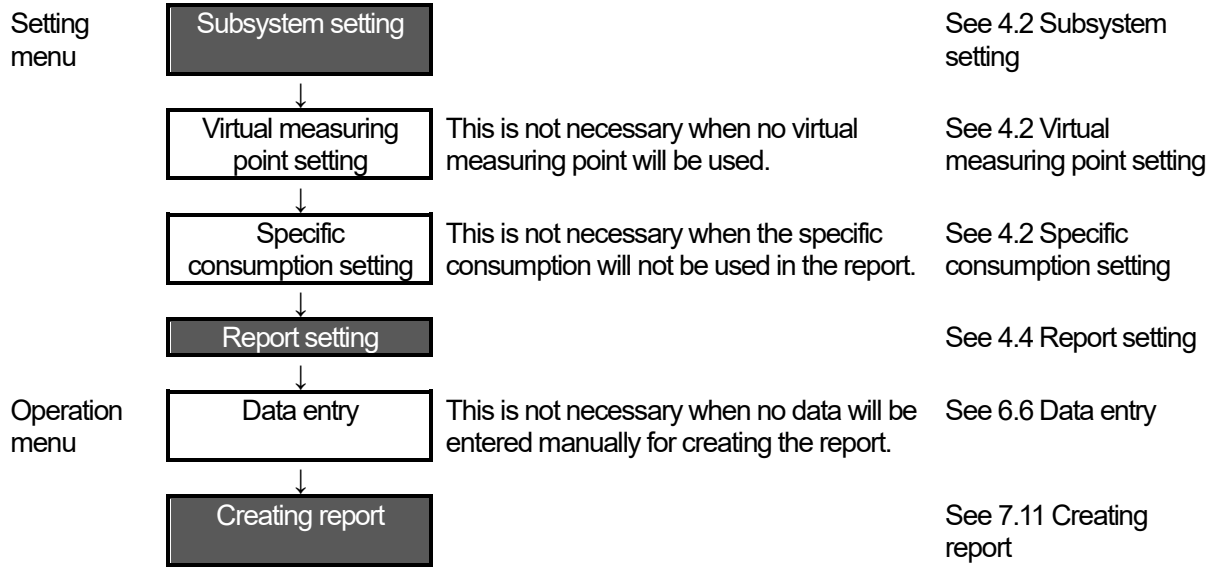
[2] The confirmation message will be displayed. Click on the [Yes] button to exit the software.



3.2 The procedure from the setting to use

(1) Creating the report

To create the report, follow the procedure shown below.



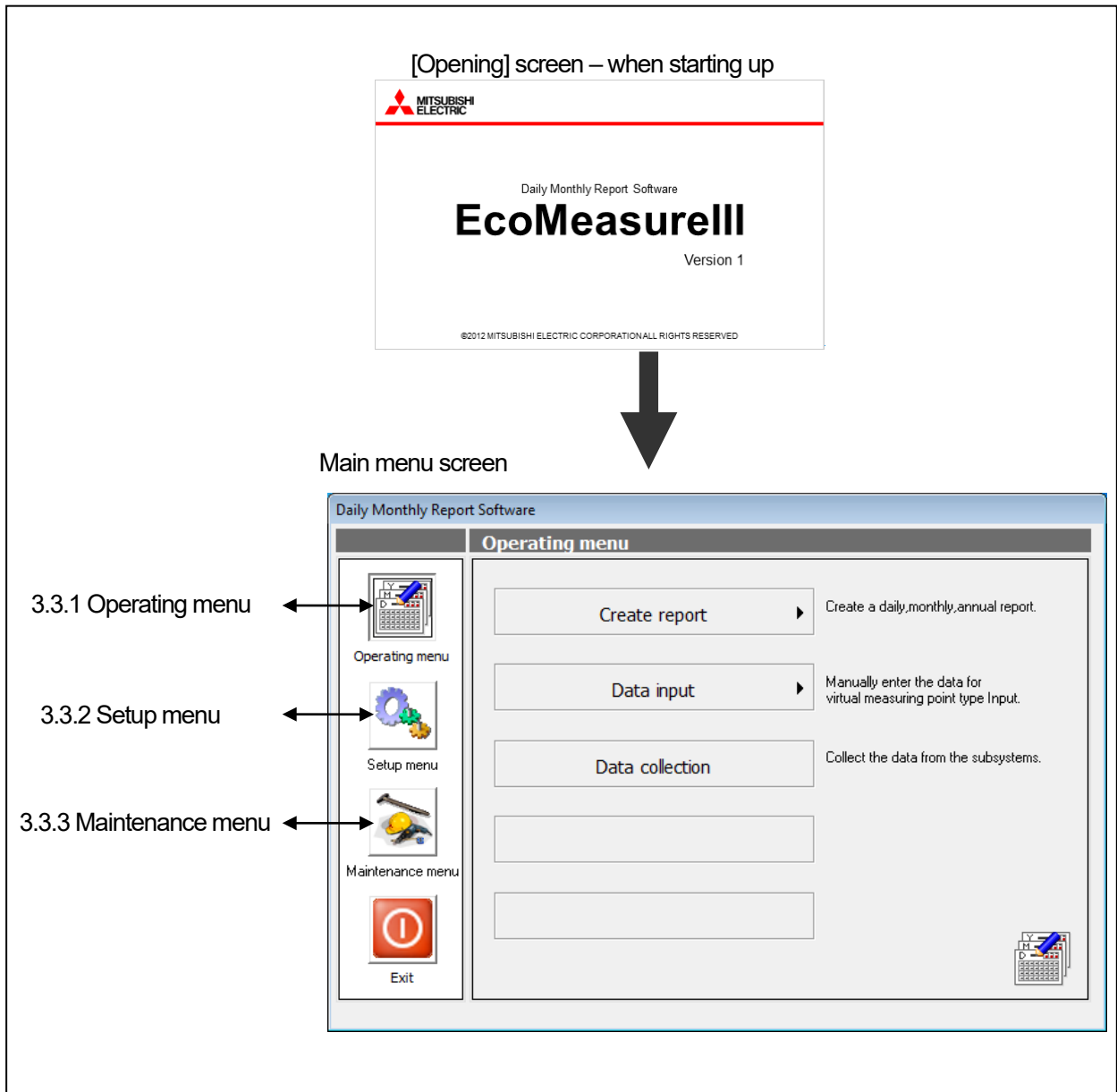
(2) Collecting the data from the subsystem

To collect the data of the subsystem into the computer, follow the procedure shown below.

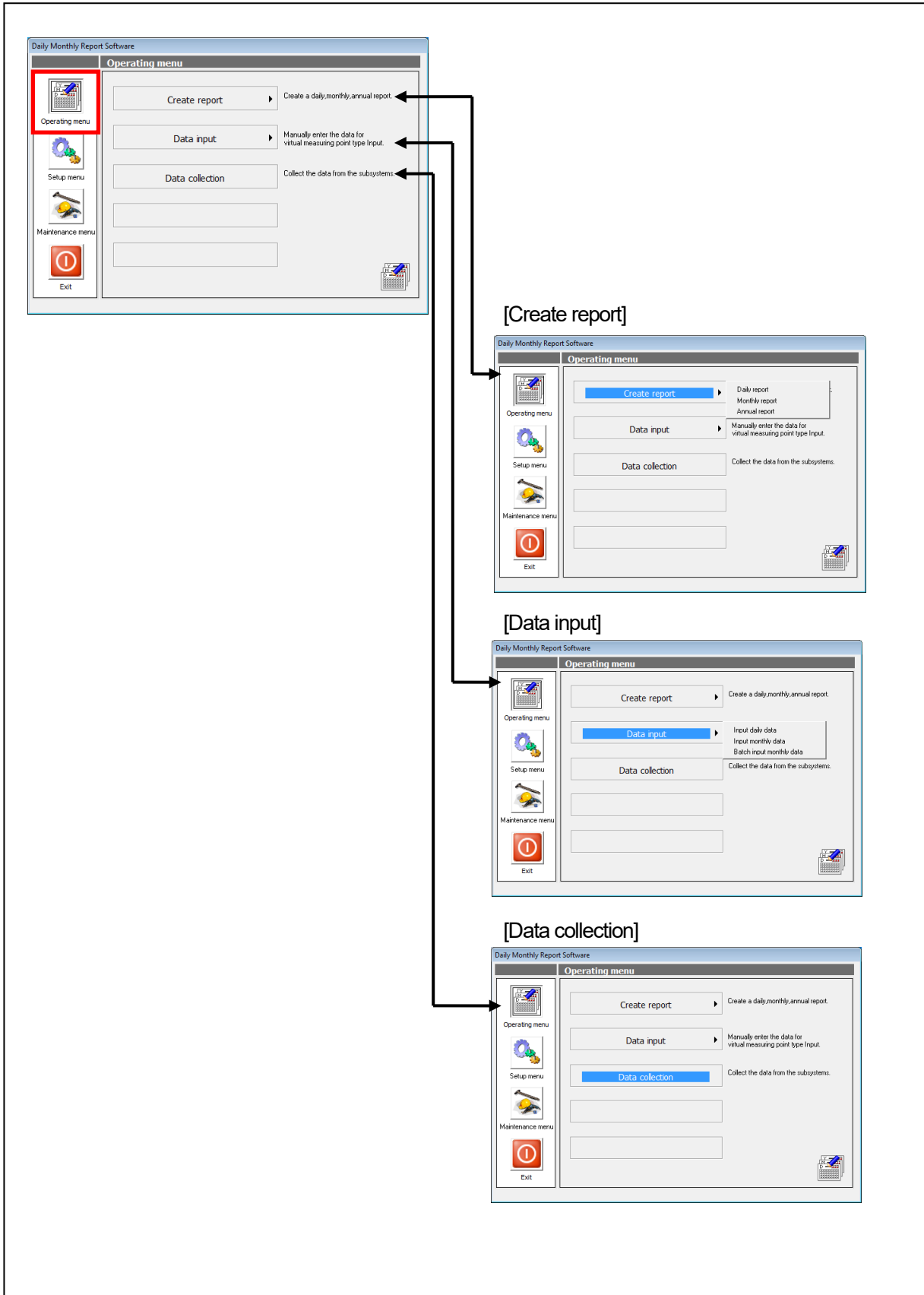


3.3 Screen configurations

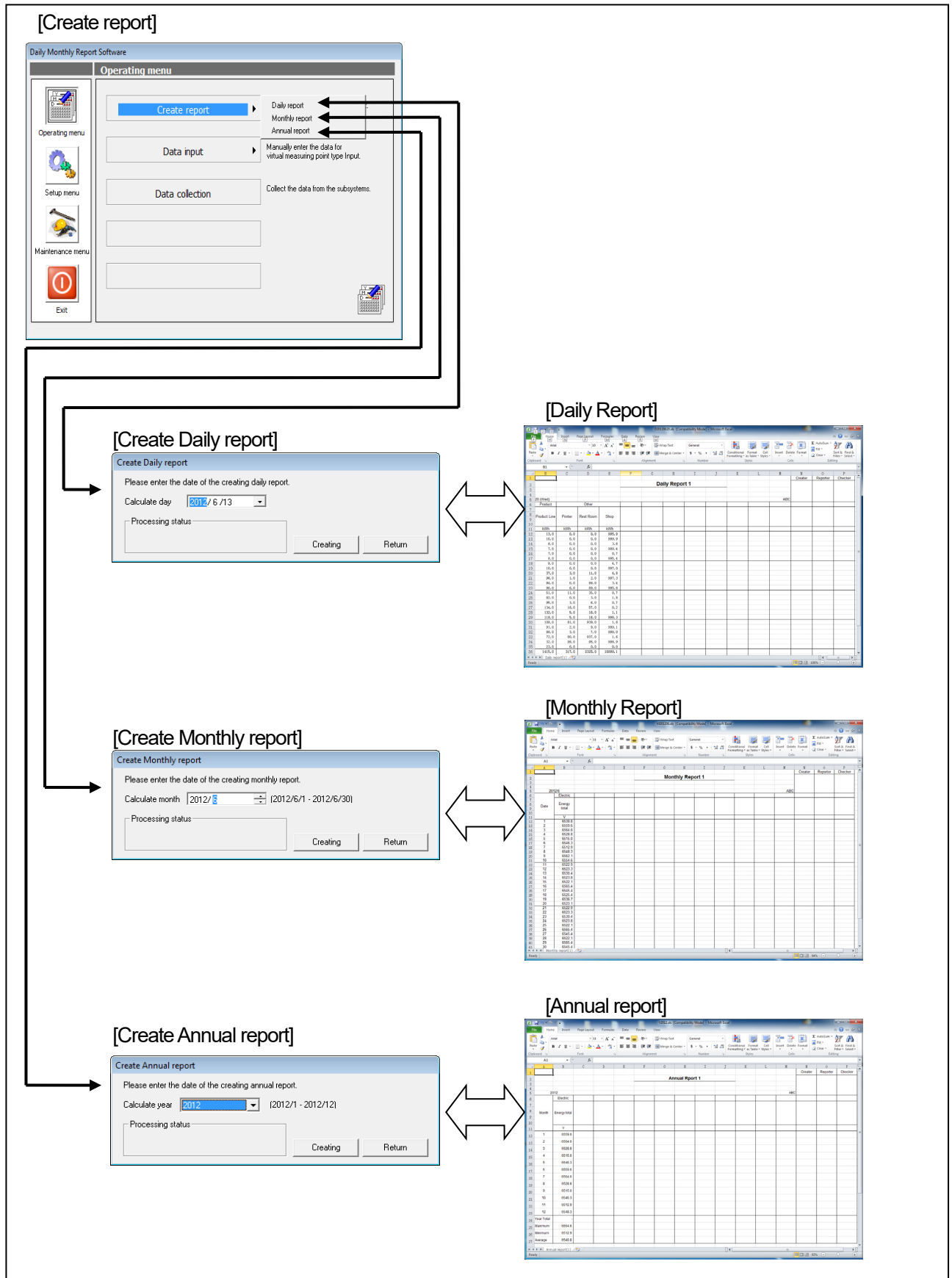
The screen of this software is configured as shown below.



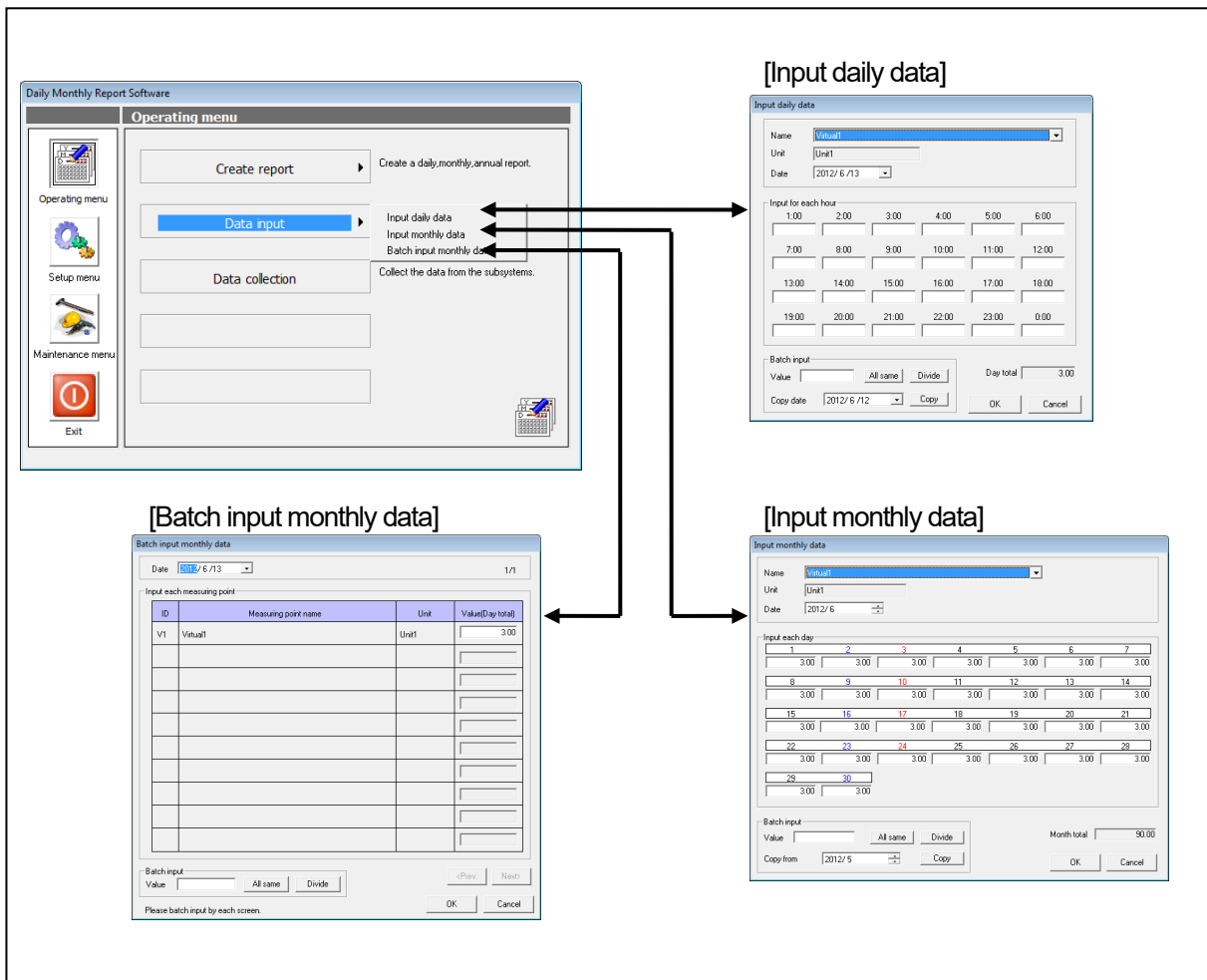
3.3.1 Operating menu



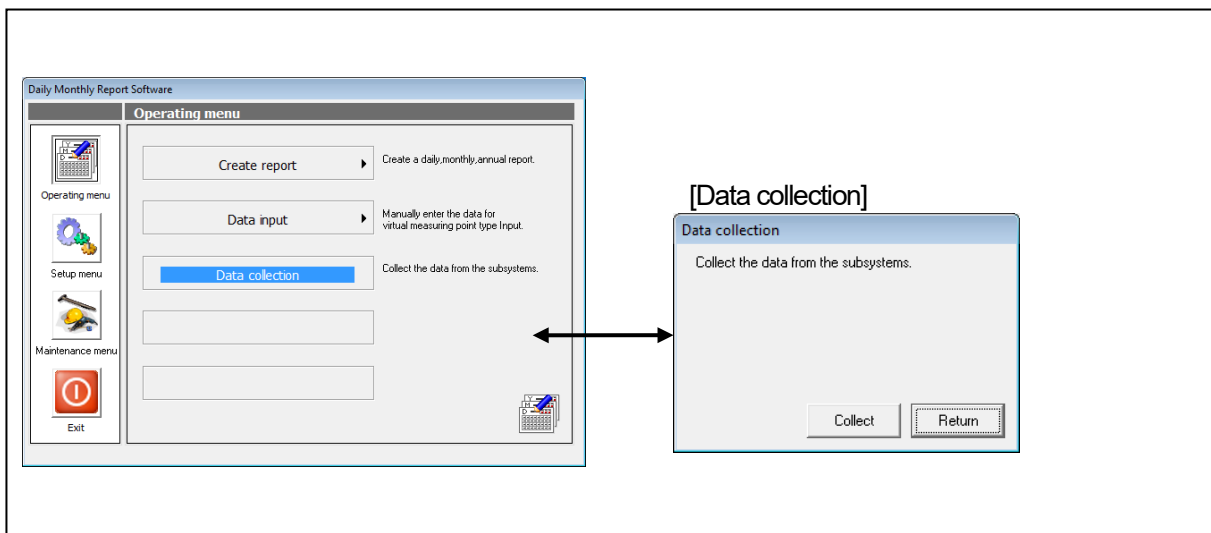
(1) Create report



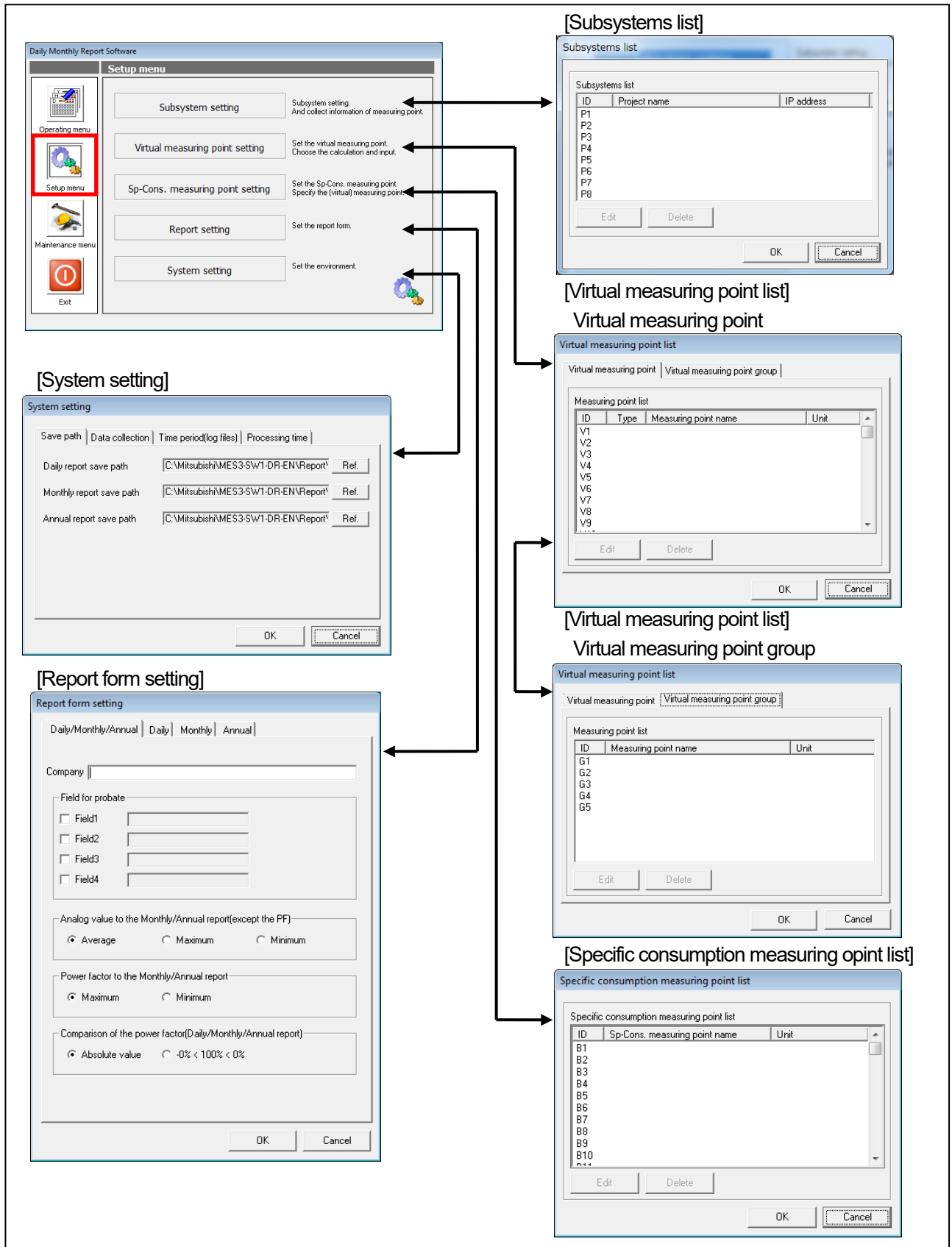
(2) Data input



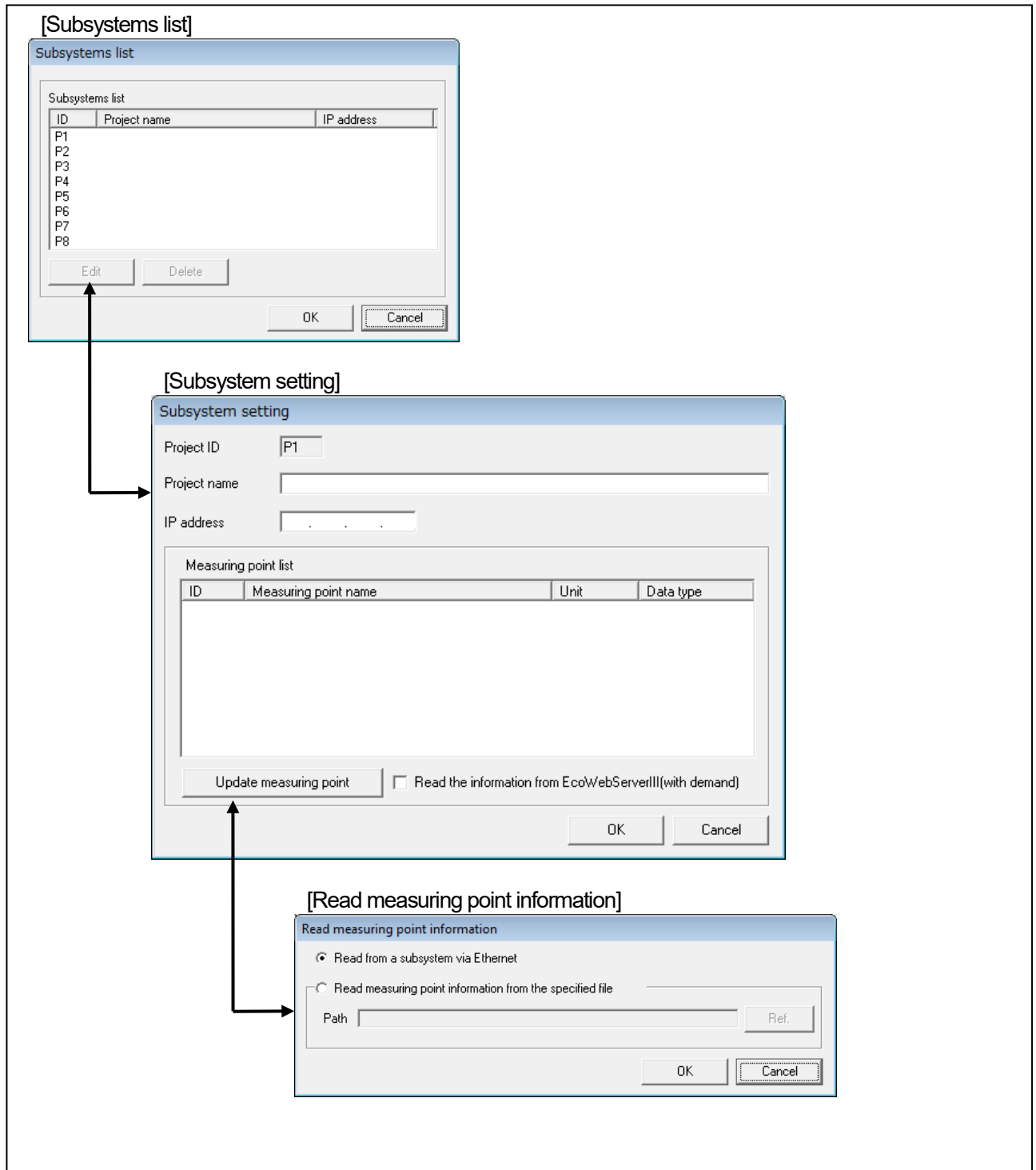
(3) Data collection



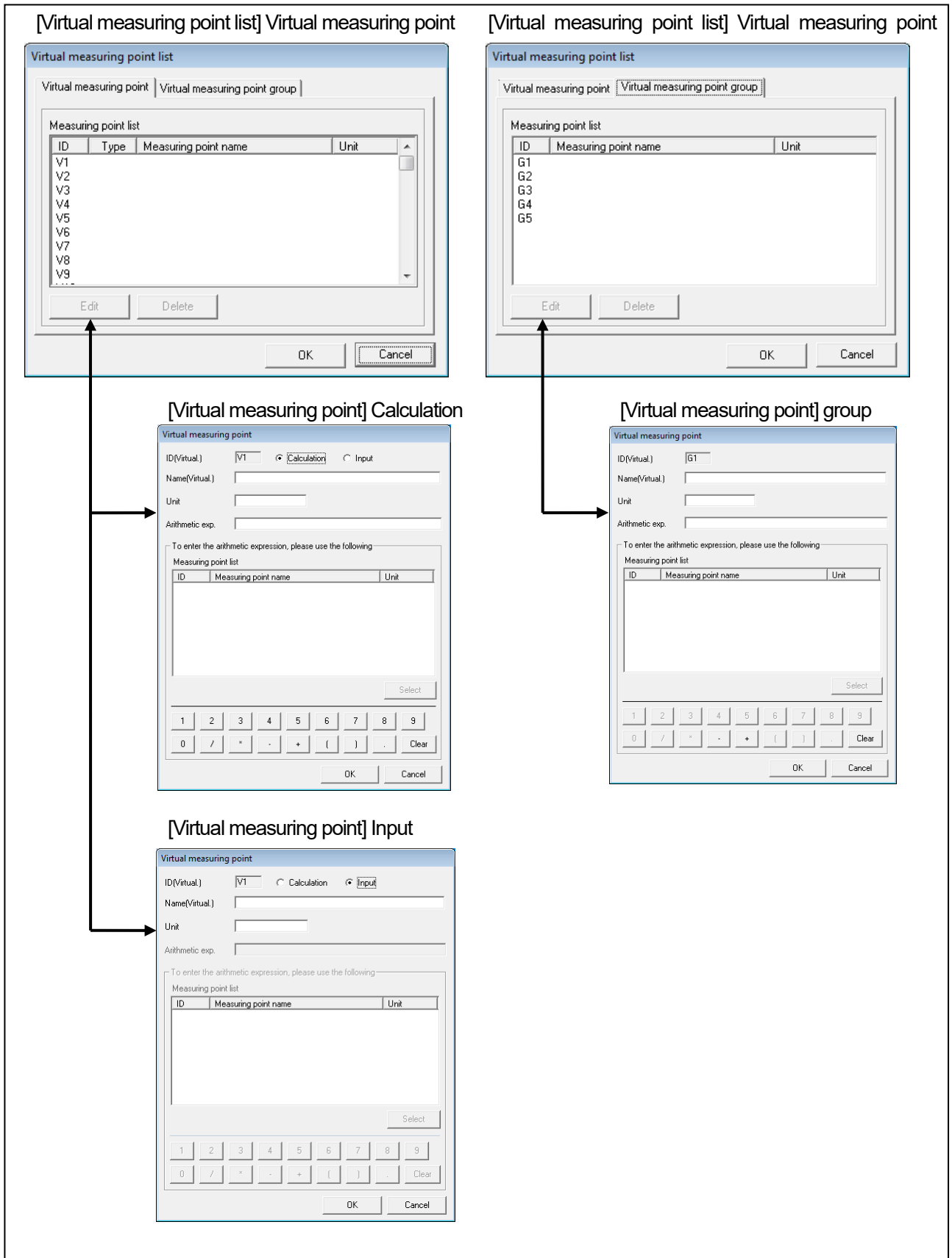
3.3.2 Setup menu



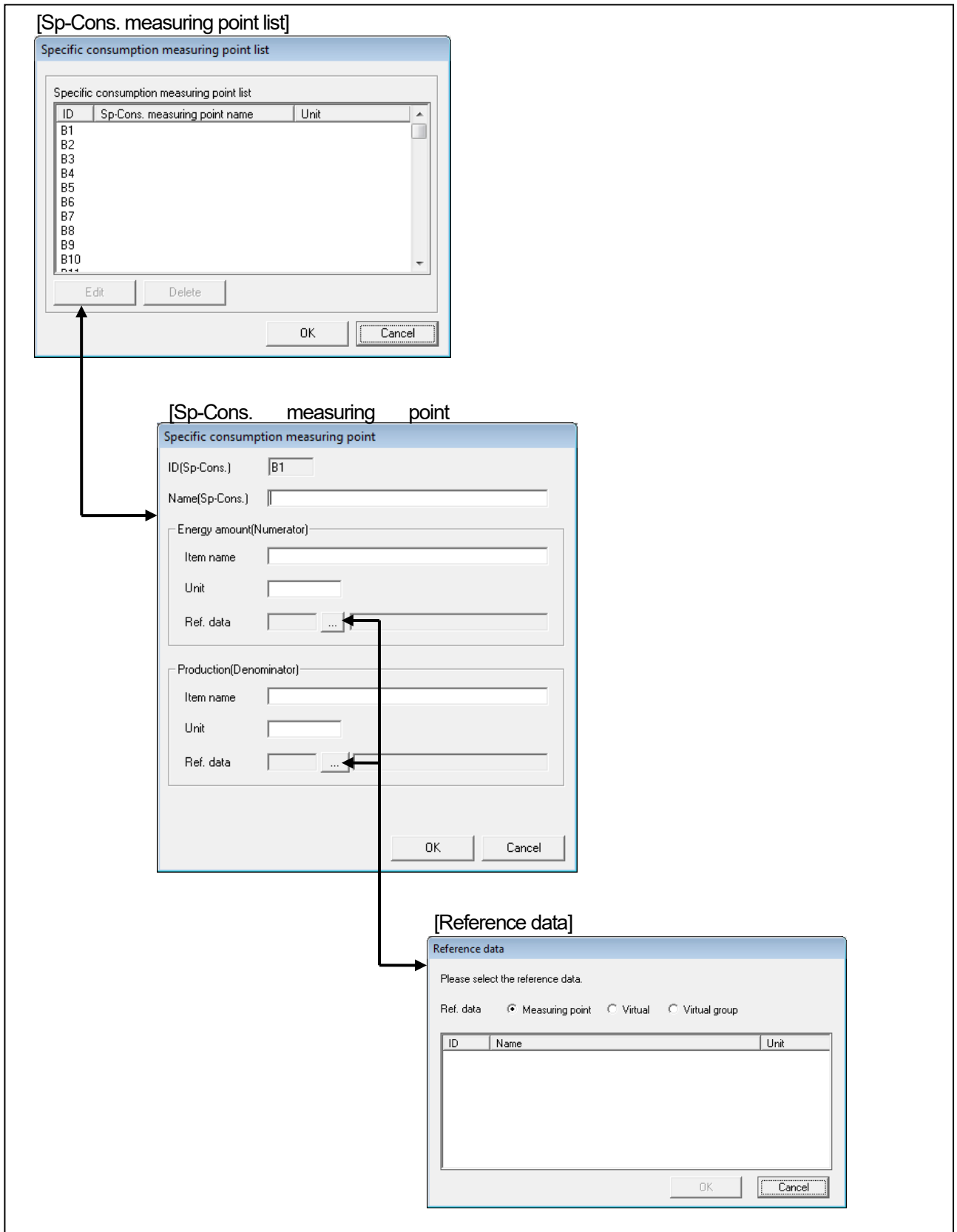
(1) Subsystem setting



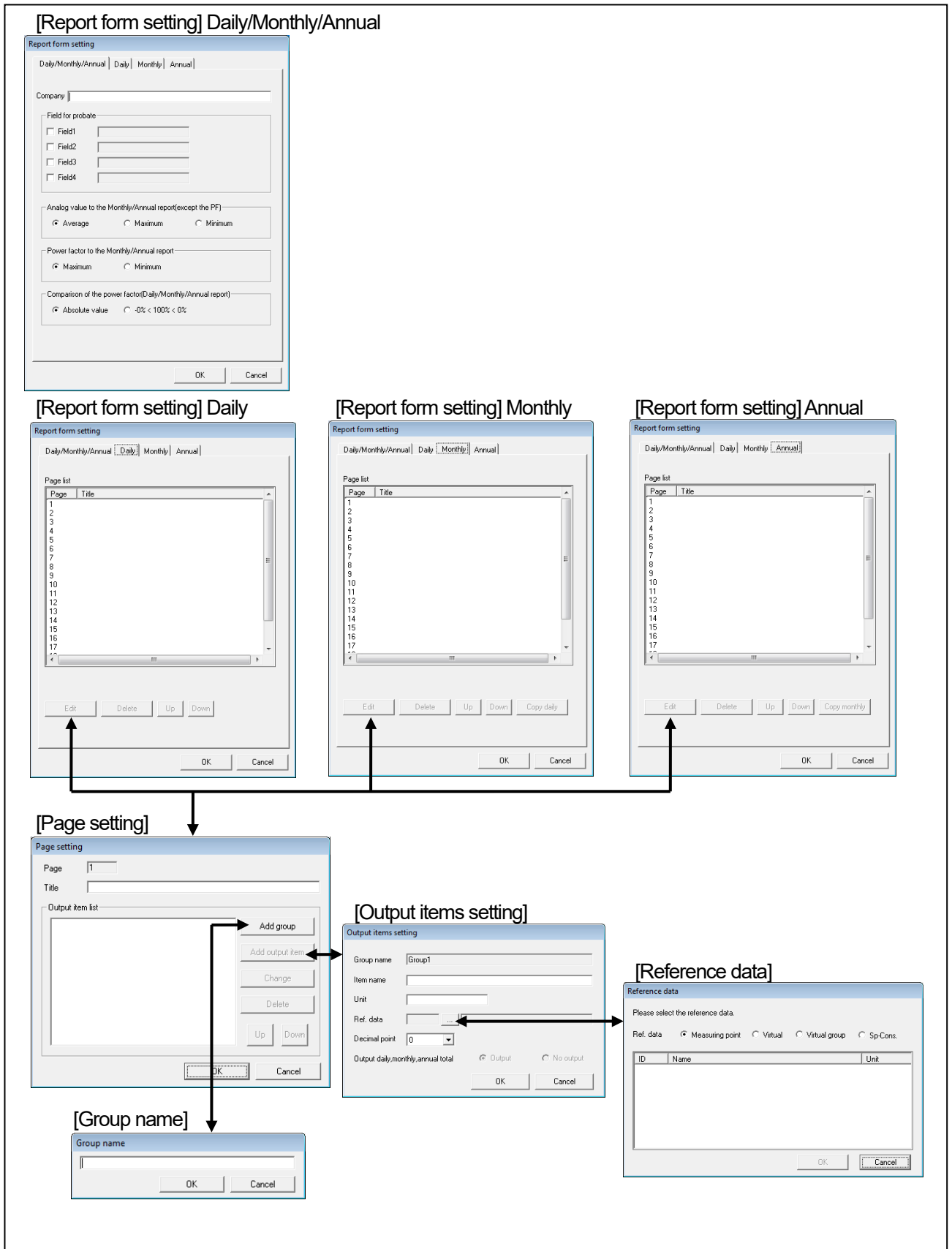
(2) Virtual measuring point setting



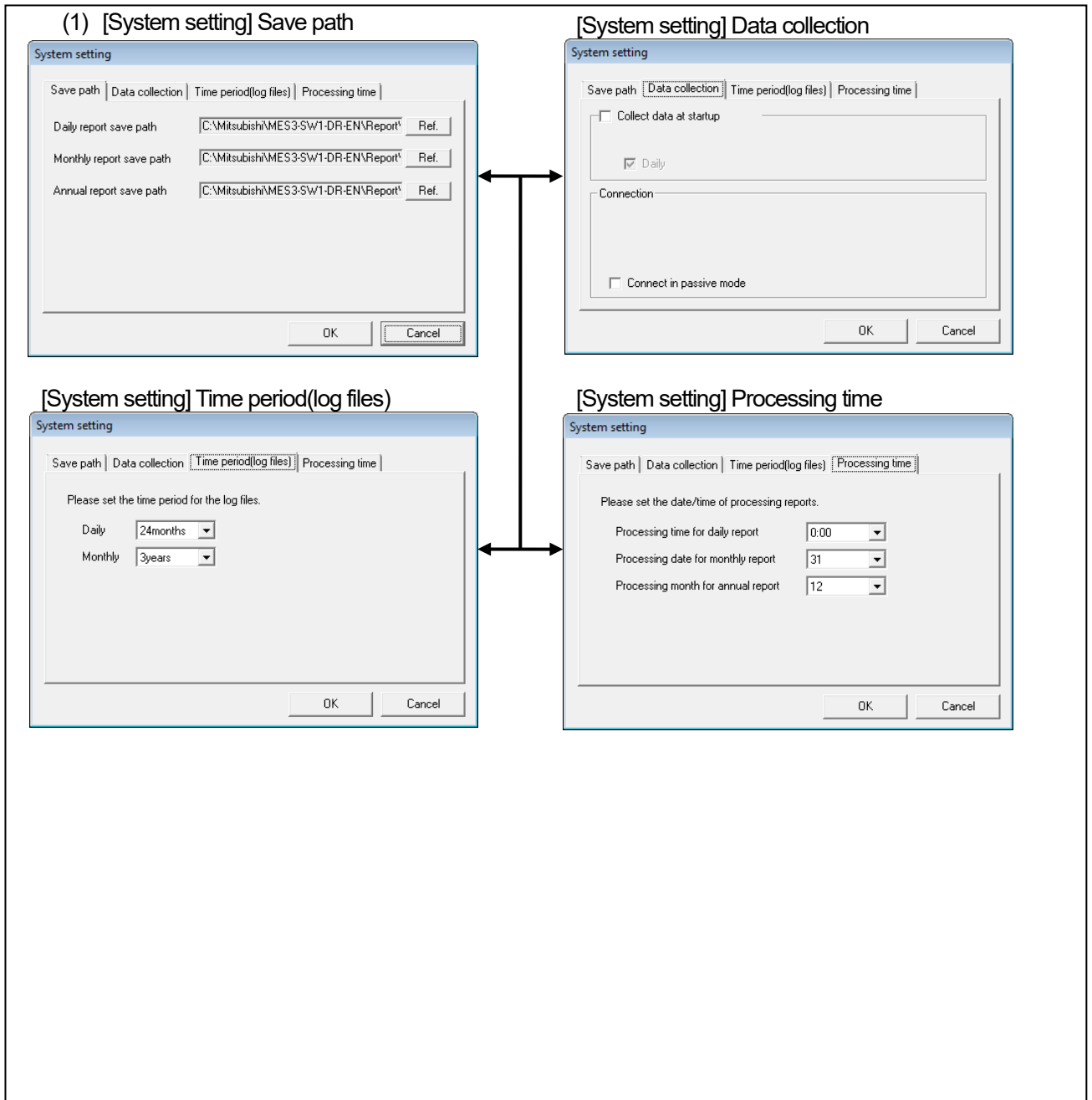
(3) Sp-Cons. measuring point setting



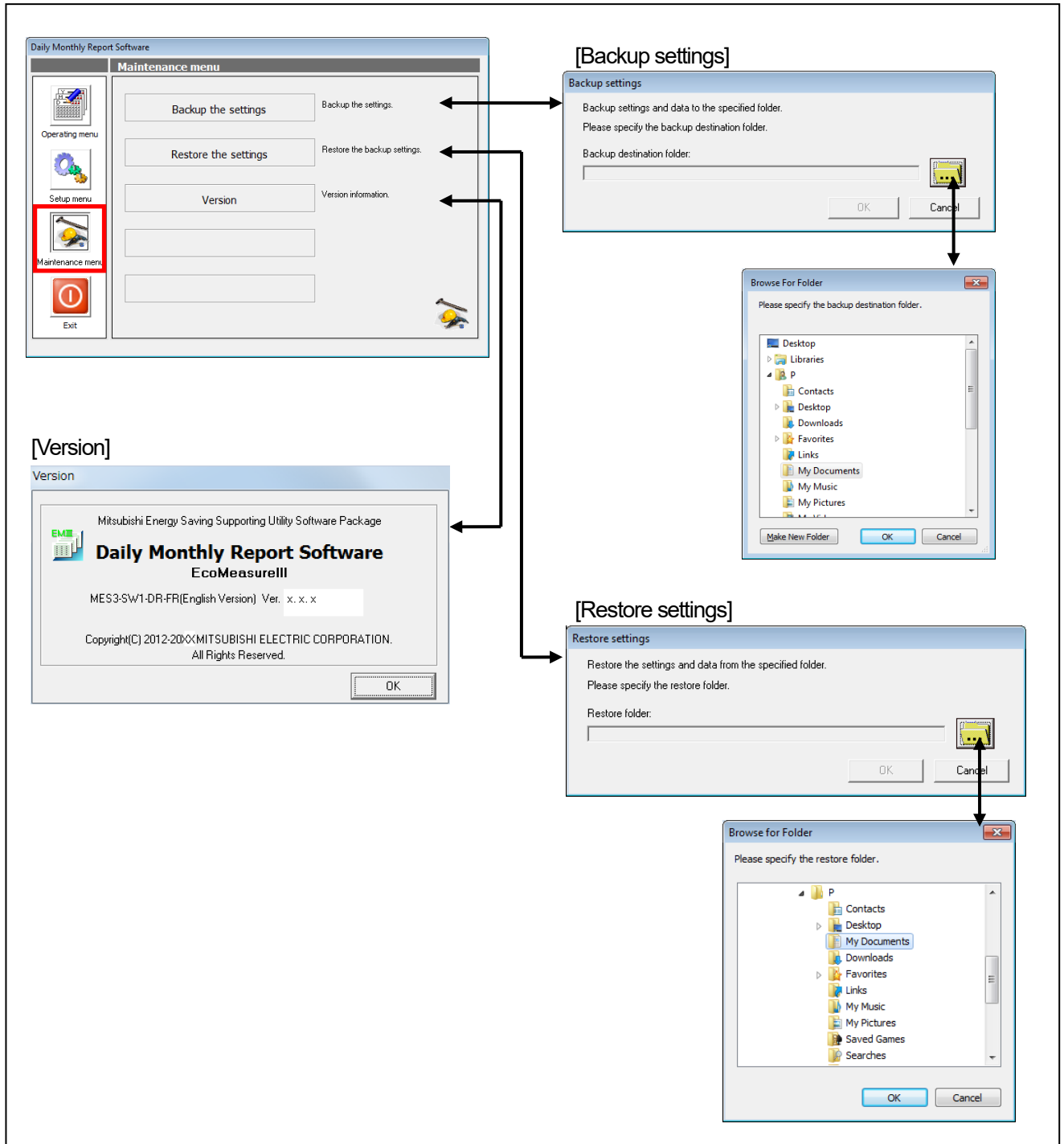
(4) Report setting



(5) System setting

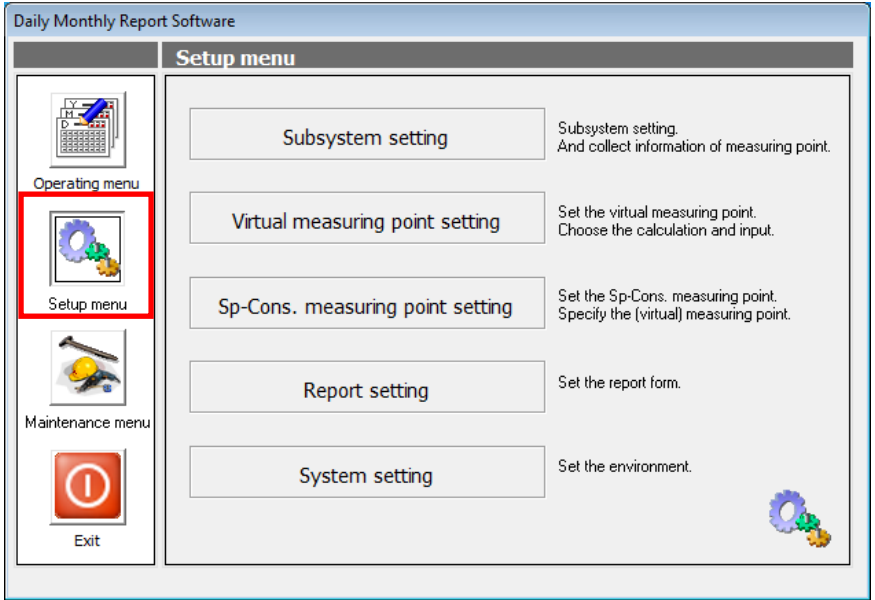


3.3.3 Maintenance menu



CHAPTER 4 SETUP FUNCTION

This function configures the settings necessary for this software to operate. Click on [Setup menu] in the main menu screen to display the setting menu.



4.1 Subsystem setting

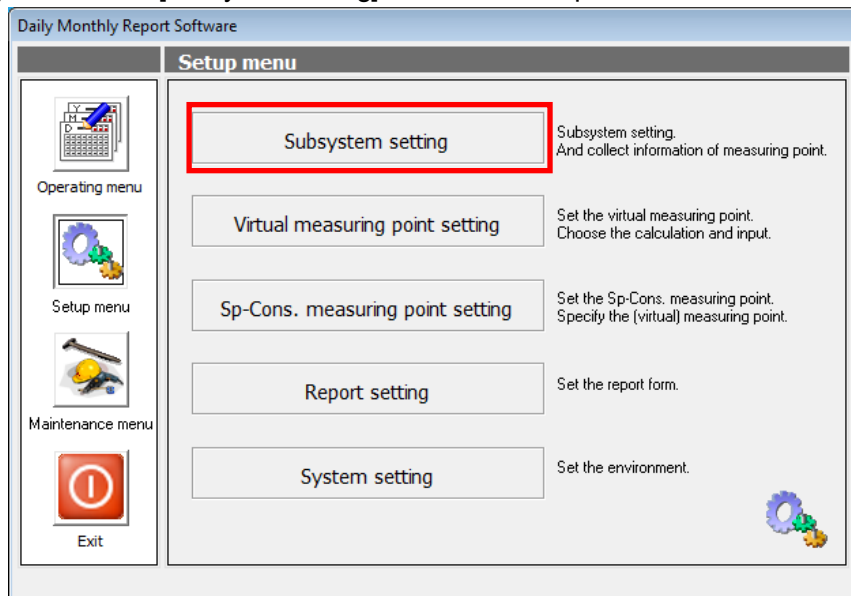
This item sets the project information (IP address, measuring point information, etc.) of the subsystem managed by this software.

- * Project means the subsystem which is set in this software.
- * Up to 2 projects can be set.

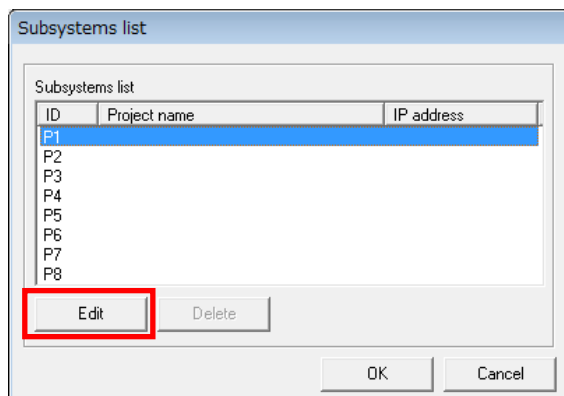
4.1.1 Registering the project

The following procedure registers the new project.

- (1) Click on the [Subsystem setting] menu in the Setup menu.



- (2) The [Subsystems list] screen is displayed. Select the ID of the project to be set and click on the [Edit] button.



- (3) The [Subsystem setting] screen is displayed.
Set the project name and IP address.

| Item | Details |
|---|---|
| Project ID | Enter the desired project name. Up to 32 characters can be entered. |
| IP address | Enter the IP address of the subsystem. *** ***.*** ***.*** *** : 0 to 255 (0.0.0.0 or ***.***.***.255 cannot be set.) |
| Read the information from EcoWebServerIII (with demand) | check : Read the demand measuring pont to read. uncheck: Read the measuring point to read. |

Caution

Only MES3-255-DM-EN can acquire a demand measuring point.

(4) Then, update the demand measuring point and measuring point information.

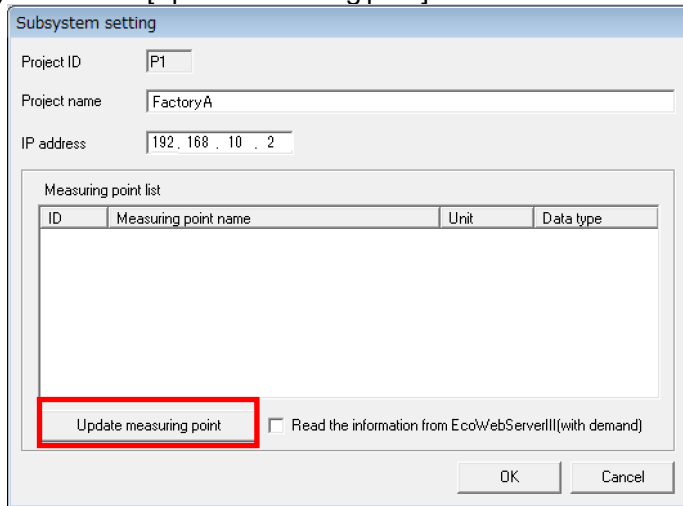
The following two methods can be used to update the demand measuring point and measuring point information.

- (a) Reading from the main body of the subsystem via the LAN
- (b) Reading from the setting file of the measuring point information acquired by the setting software of the subsystem

(a) When reading from the subsystem via the LAN

If reading a demand measuring point, please checked to [Read the information from EcoWebServerIII(with demand)].

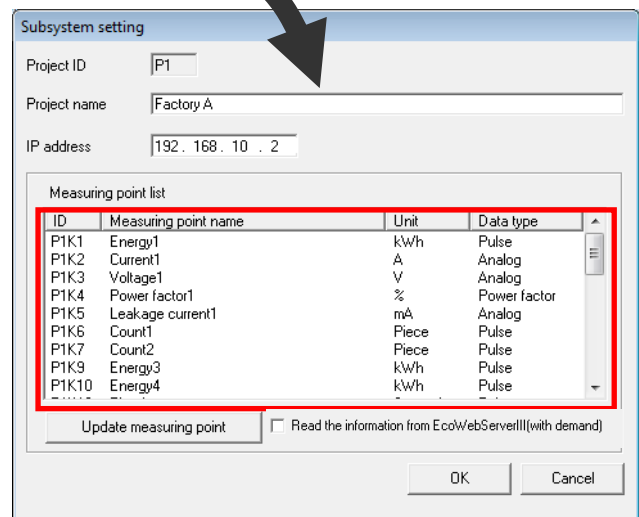
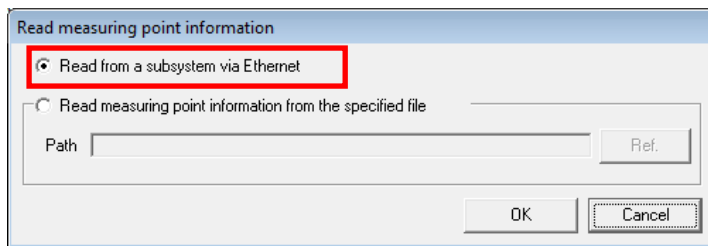
(i) Click on the [Update measuring point] button.



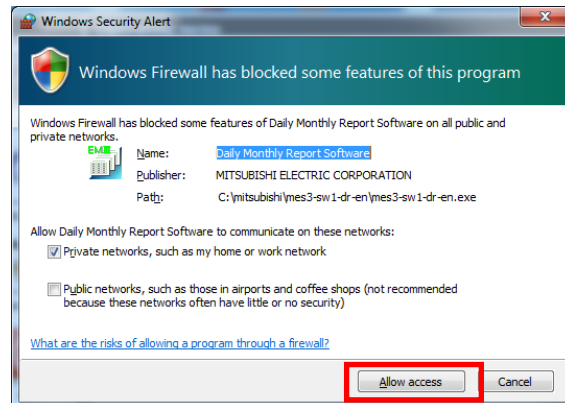
(ii) The [Read measuring point information] screen is displayed.

Select [Read from a subsystem via Ethernet] and click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.

The measuring point information read from the subsystem is displayed in the [Subsystem setting] screen.



- * When the software communicates with the subsystem for the first time, the screen as shown on the right may be displayed. Click [Allow access] to set the firewall to unblock the Daily Monthly Report Software. If you select cancel by mistake, use the Windows firewall setting in the operating system to allow communications of the “Daily Monthly Report Software.”



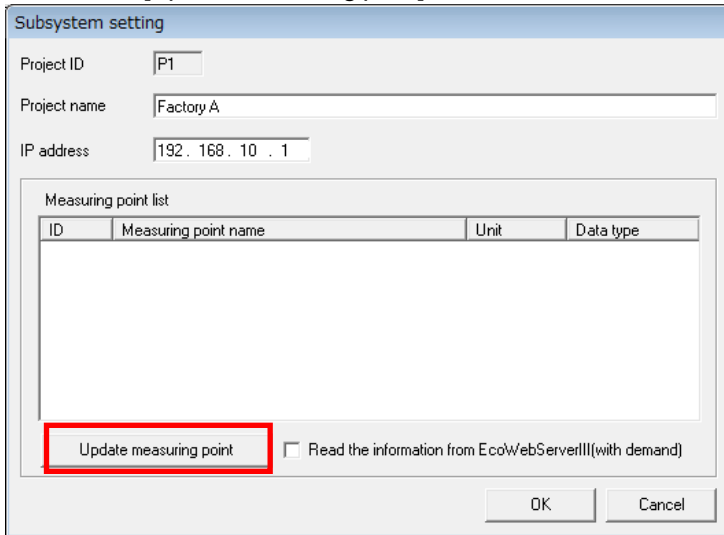
[Displayed contents of the measuring point list]

| Item | Details |
|----------------------|---|
| ID | The ID of the measuring point is displayed in “PnKm” format. Pn : Project ID (n = 1 to 8) Km : Measuring point ID for each subsystem (m = 1 to 1255) |
| Measuring point name | The name of the measuring point is displayed. |
| Unit | The unit of the measuring data is displayed. |
| Data style | The following are displayed: Analog : Analog data (including demand) Pulse : Pulse data Status : ON/OFF status Power factor : Power factor data |

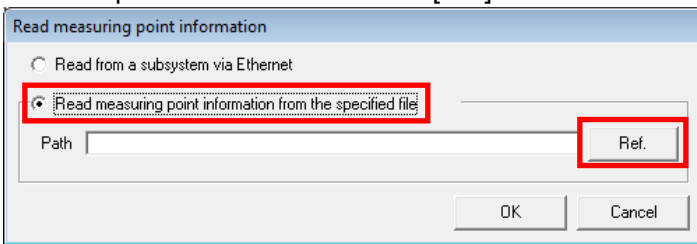
(b) When reading from the setting file of the measuring point information

You must acquire and save the setting file of the measuring point information from the subsystem in advance. For the procedure, refer to the user manual of the subsystem.

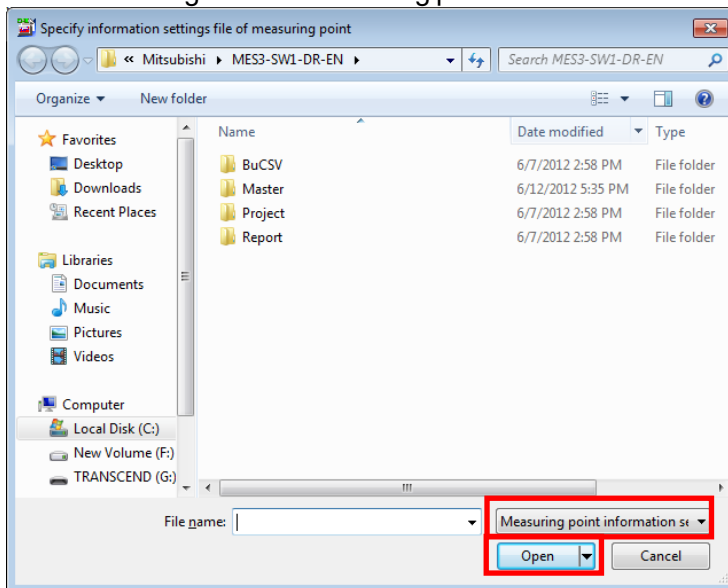
(i) Click on the [Update measuring point] button.



(ii) The [Read measuring point information] screen is displayed. Select “Read measuring point information from the specified file” and click on the [Ref.] button.



(iii) The dialog for specifying the file will be displayed. Select the setting file of the measuring point information and click on the [Open] button.

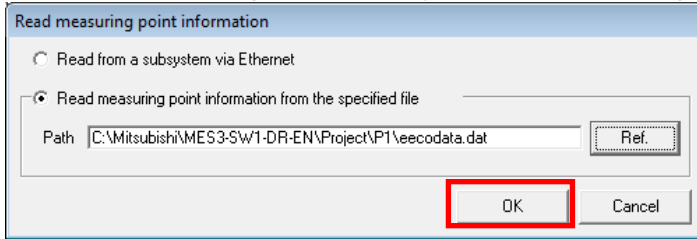


The name of the setting file of the measuring point information varies depending on the subsystem.

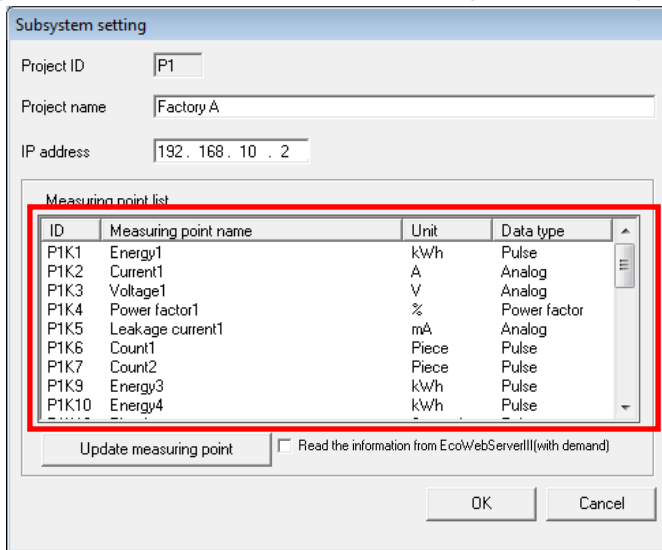
<EcoWebServer III>
Measuring point : eecodata.dat

(iv) The path to the selected file is shown in the [Read measuring point information] screen. Click on the [OK] button.

The confirmation message will be displayed. Follow the message instructions and continue the operation.



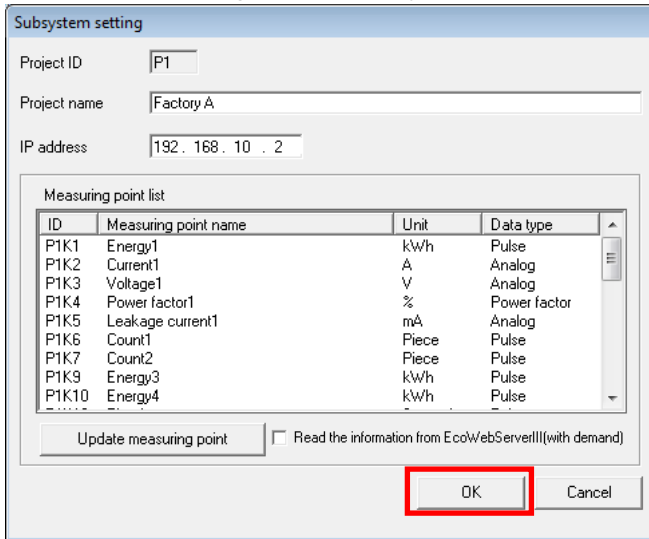
(v) The updated information of the measuring point is displayed in the [Subsystem setting] screen.



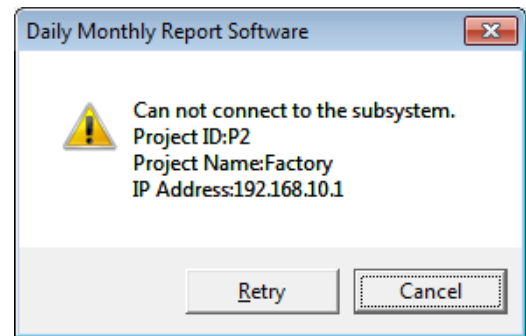
[Displayed contents of the measuring point list]

| Item | Details |
|----------------------|---|
| ID | The ID of the measuring is displayed in “PnKm” format. Pn : Project ID (n = 1 to 8) Km : Measuring point ID for each subsystem (m = 1 to 1255) |
| Measuring point name | The name of the measuring point is displayed. |
| Unit | The unit of the measuring data is displayed. |
| Data style | The following are displayed: Analog : Analog data (including demand) Pulse : Pulse data Status : ON/OFF status Power factor : Power factor data |

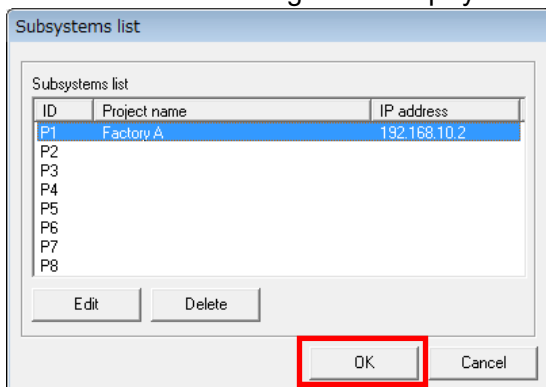
- (5) When the updating of the measuring point information is completed, click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.



- * You can register the project by clicking on the [OK] button even when no measuring point list has been registered. However, the message shown on the right will be displayed when the data is acquired from the subsystem. In such a case, update the measuring point information first and then acquire the data again.



- (6) The details of the specified project are displayed in the [Subsystems list] screen. Click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.



- (7) The configured settings are saved in the setting file and the main menu screen reappears.

Caution

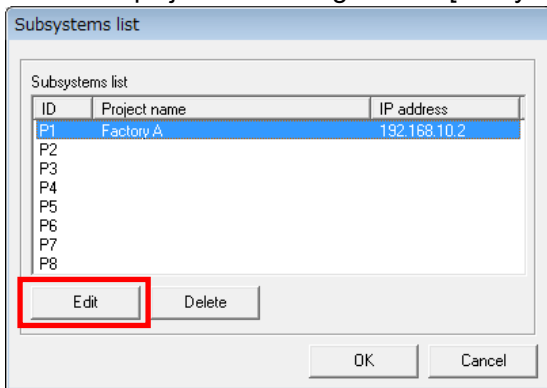
When you change the setting and click on the [Cancel] button in the [Subsystems list] screen before saving the change to the setting file, note that all the changed contents will be abandoned.

4.1.2 Changing the project

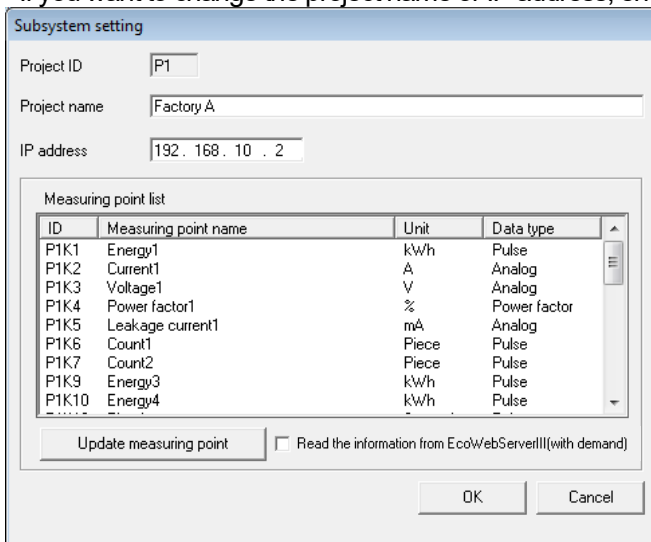
This item changes the IP address of the project already set or updates the measuring point information.

- * If the measuring point used in the virtual measuring point, specific consumption, or report has been deleted on the subsystem side, delete the corresponding measuring point from the virtual measuring point, specific consumption, or report before updating the measuring point information.

(1) Select the project to be changed in the [Subsystems list] screen and click on the [Edit] button.



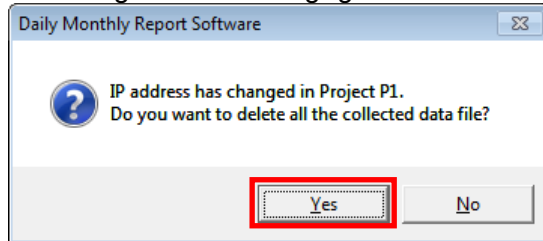
(2) The [Subsystem setting] screen is displayed.
If you want to change the project name or IP address, enter the new setting.



Caution

For updating the measuring point information read from the subsystem via the LAN, refer to the procedure for updating the measuring point information described in “4.1.1 Registering the project.”

- (3) The confirmation message shown below is displayed when the IP address of the project has been changed. If you want to delete all the logging files already collected, such as in the case that the connected device has been changed, click on the [Yes] button. If you do not want to delete the logging file already collected, such as in the case that only the IP address has been changed without changing the connected device, click on the [No] button.



- (4) The setting contents are saved in the setting file and the main menu screen reappears.

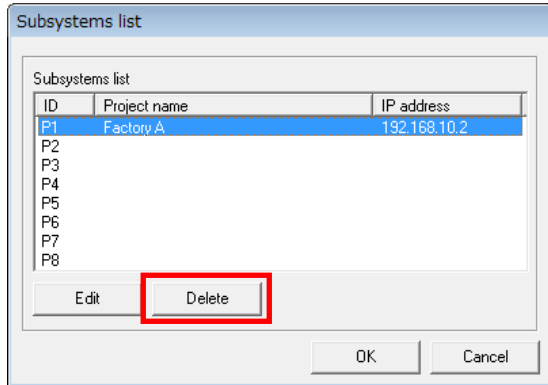
Caution

When you change the setting and click on the [Cancel] button in the [Subsystems list] screen before saving the change to the setting file, note that all the changed contents will be abandoned.

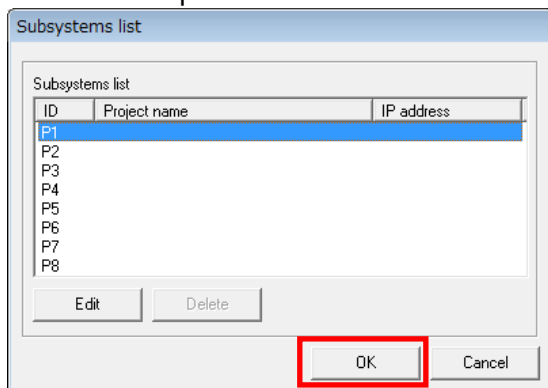
4.1.3 Deleting the project

This item deletes the project that is already set.

- (1) Select the project to be deleted in the [Subsystems list] screen and click on the [Delete] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.



- (2) The selected project is deleted from the [Subsystems list] screen. Click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.



- (3) The configured settings are saved in the setting file and the main menu screen reappears.

You cannot delete the project when its measuring point is used in the virtual measuring point, specific consumption, or report. Before deleting such project, delete the relevant measuring point from the virtual measuring point, specific consumption, or report.

4.2 Virtual measuring point setting

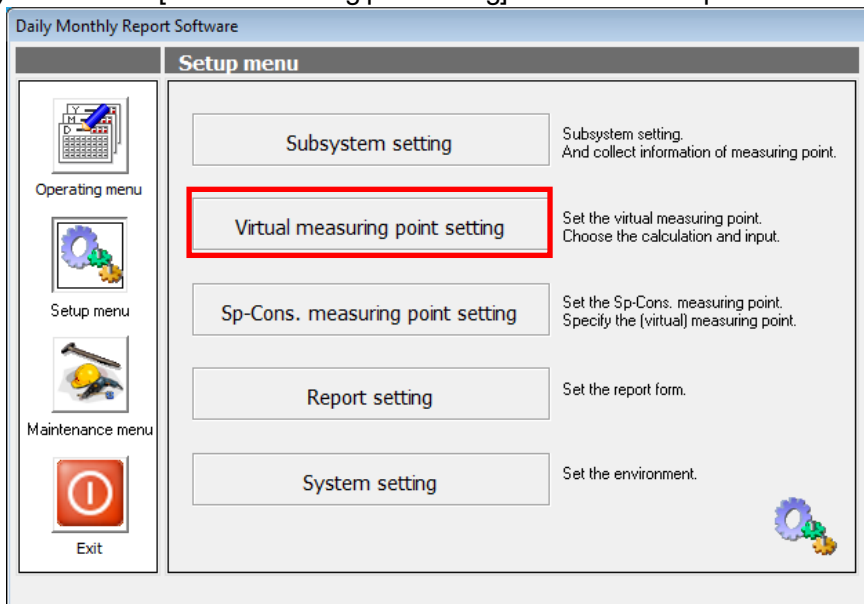
This item sets the virtual measuring point and virtual measuring point group to be used in the report.

| Name | | Details |
|---|---|--|
| Virtual measuring point* ¹ | | Measuring point which treats the calculation result of the measuring point or manually entered data as the virtual measuring data. |
| | Virtual measuring point for calculation | Used for the calculation of the measuring point |
| | Virtual measuring point for entry | Used for manually entering the production quantity of the specific consumption, etc. |
| Virtual measuring point group* ² | | Measuring point which treats the calculation result of the virtual measuring point as the virtual measuring data. |

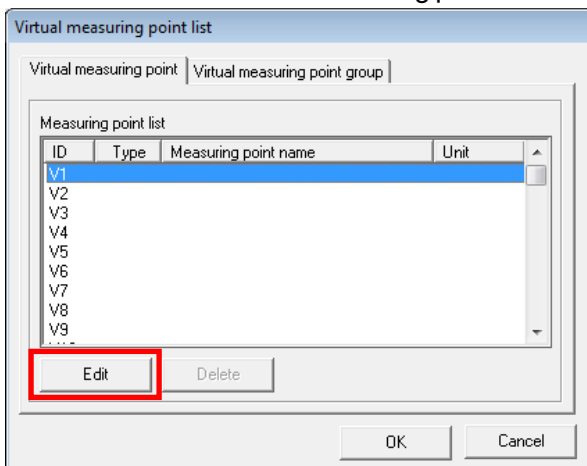
- * 1: Up to 95 virtual measuring points can be registered.
- * 2: Up to 5 virtual measuring point groups can be registered. Virtual measuring point for entry cannot be specified.

4.2.1 Virtual measuring point setting

(1) Click on the [Virtual measuring point setting] menu in the Setup menu.



(2) The [Virtual measuring point list] screen is displayed. Select the ID of the virtual measuring point to be set and click on the [Edit] button.



- (3) The [Virtual measuring point] screen is displayed.
Set each item.

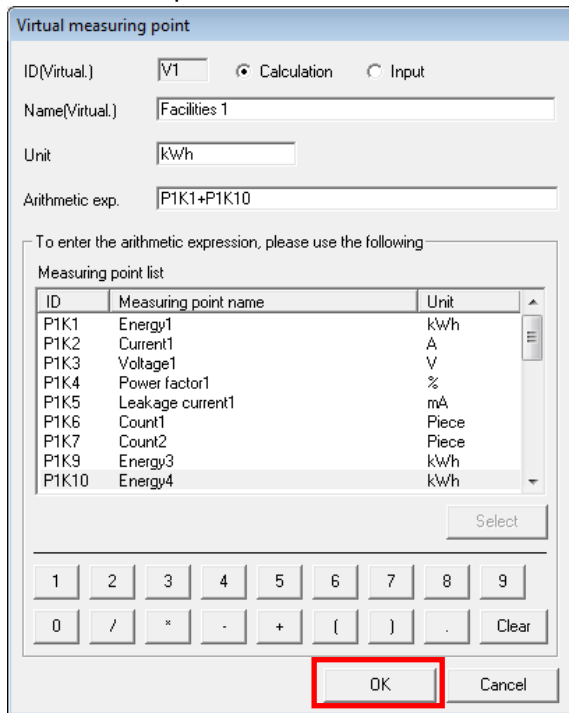
| Item | Details |
|-----------------------|---|
| Type | Select “Calculation” or “Input.” |
| Measuring point name | Enter the name of the measuring point. Up to 32 characters can be entered. |
| Unit | Enter the unit. Up to 8 characters can be entered. |
| Arithmetic expression | Enter the arithmetic expression. Up to 1024 characters can be entered. Numerical values, parentheses, and operators can be entered also using the buttons in the screen. Select the measuring point in the measuring point list and click on the [Select] button to add the measuring point ID to the arithmetic expression. You cannot use this item when the type is set to “Input” |

[The format of arithmetic expression]

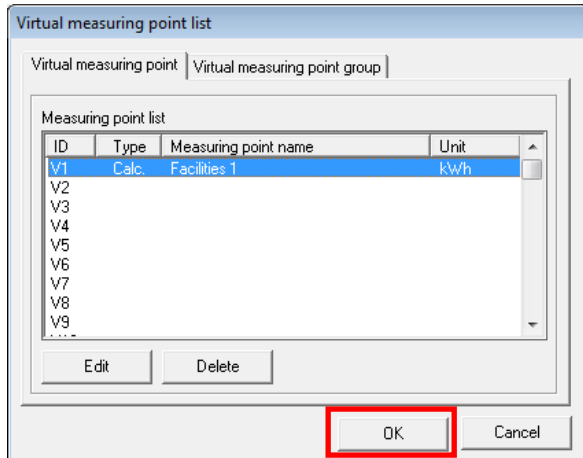
| Item | Details |
|--------------------|---|
| Items can be set | Measuring point ID, numerical values, parentheses, and operators |
| Measuring point ID | Only the registered measuring points (P1K1 to P8K1255) |
| Numerical values | Up to 6 digits for the integer part and 5 digits for the decimal part (0 to 999999.99999) |
| Parentheses | Up to 16 layers of parentheses can be set. |
| Operators | Four arithmetic operations (+, -, *, /) |
| Number of operands | 1 to 64 |

The number of operands in “(P1K1 + P1K2 + P1K3)*0.473” is 4.
Do not perform multiplications or divisions between measuring points.
(Example: P1K1*P1K2, P1K1/P1K2, etc.)

- (4) Click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.



- (5) The details of the virtual measuring point set are displayed in the [Virtual measuring point list] screen. Click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.

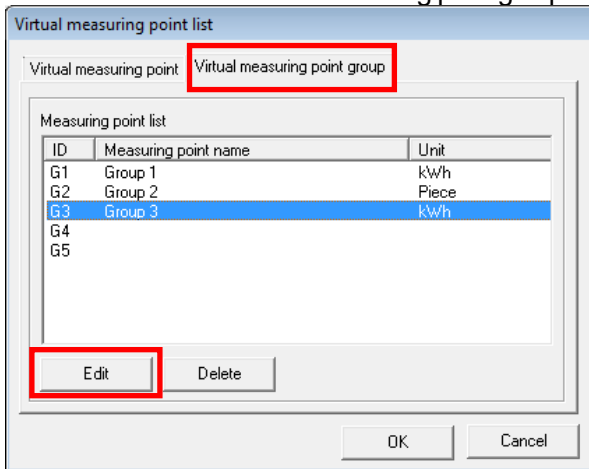


- (6) The configured settings are saved in the setting file and the main menu screen reappears.

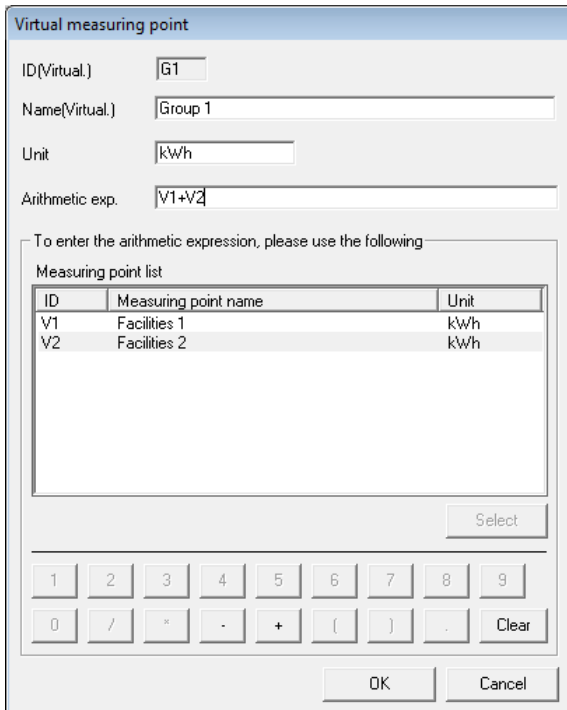
Note that all the changes you made will be cancelled if the [Cancel] button in the [Virtual measuring point list] screen is clicked before they are saved in the setting file.

4.2.2 Setting the virtual measuring point group

- (1) Display the “Virtual measuring point group” tab in the [Virtual measuring point list] screen. Select the ID of the virtual measuring point group to be set and click on the [Edit] button.



- (2) The [Virtual measuring point] screen is displayed. Set each item.



| Item | Details |
|------------------------------|--|
| Virtual measuring point name | Enter the name of the virtual measuring point group. Up to 32 characters can be entered. |
| Unit | Enter the unit. Up to 8 characters can be entered. |
| Arithmetic expression | Enter the arithmetic expression. Up to 1024 characters (single-byte only) can be entered. Operators (+, - only) can be entered also from the buttons on the screen. Select the measuring point in the measuring point list and click on the [Select] button to add the measuring point ID to the arithmetic expression. Virtual measuring point for entry cannot be set. |

[The format of arithmetic expressions]

| Item | Details |
|--------------------|--|
| Items can be set | Measuring point ID and operators |
| Measuring point ID | Registered virtual measuring point for calculation only (V1 - V95) |
| Numerical values | x: Cannot be set |
| Parentheses | x: Cannot be set |
| Operators | Only addition and subtraction (+, -) |
| Number of operands | 1 to 32 |

- (3) Click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.

Virtual measuring point

ID(Virtual.)

Name(Virtual.)

Unit

Arithmetic exp.

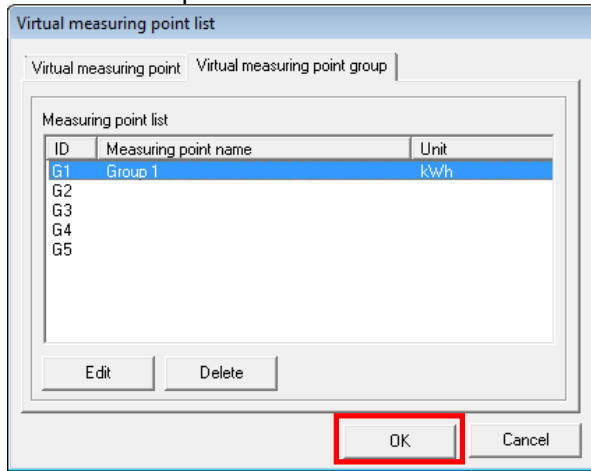
To enter the arithmetic expression, please use the following

| ID | Measuring point name | Unit |
|----|----------------------|------|
| V1 | Facilities 1 | kWh |
| V2 | Facilities 2 | kWh |

1 2 3 4 5 6 7 8 9

0 / * - + () . Clear

- (4) The details of the virtual measuring point groups set are displayed on the [Virtual measuring point list] screen. Click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.

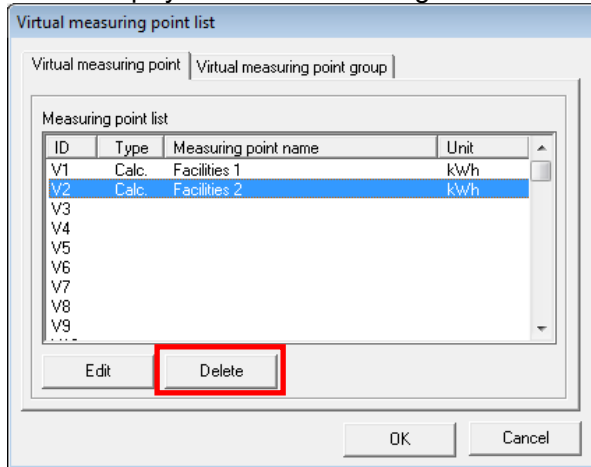


- (5) The configured settings are saved in the setting file and the main menu screen reappears.

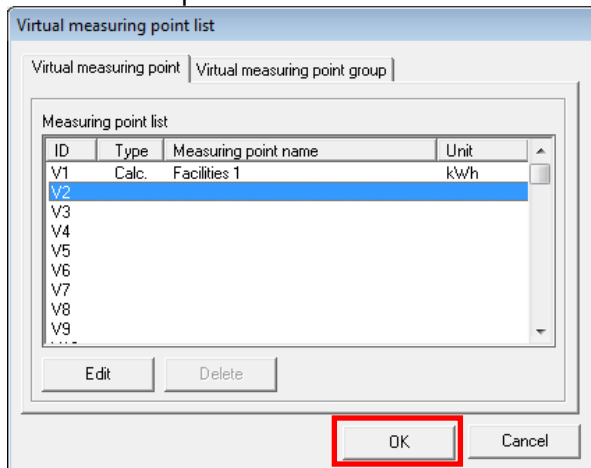
Note that all the changes you made will be cancelled if the [Cancel] button in the [Virtual measuring point list] screen is clicked before they are saved in the setting file.

4.2.3 Deleting the virtual measuring point

- (1) Display the “Virtual measuring point” tab in the [Virtual measuring point list] screen.
Select the virtual measuring point to be deleted and click on the [Delete] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.



- (2) The selected virtual measuring point is deleted from the [Virtual measuring point list] screen.
Click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.

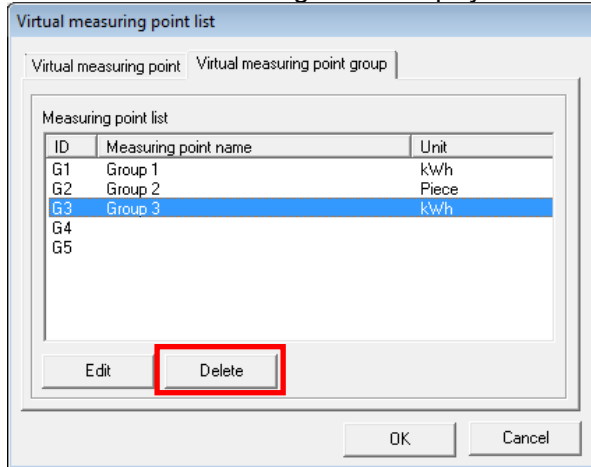


- (3) The configured settings are saved in the setting file and the main menu screen reappears.

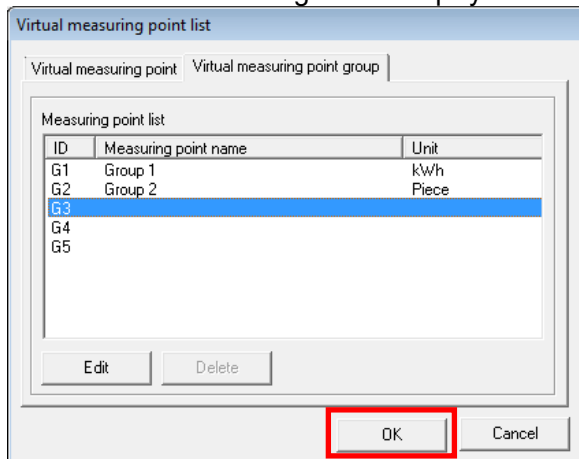
- * You cannot delete the virtual measuring point that is used in the virtual measuring point group, specific consumption, or report. Before deleting such point, delete the relevant virtual measuring point from the virtual measuring point group, specific consumption, or report.

4.2.4 Deleting the virtual measuring point group

- (1) Display the “Virtual measuring point group” tab in the [Virtual measuring point list] screen.
 Select the virtual measuring point group to be deleted and click on the [Delete] button.
 The confirmation message will be displayed. Follow the message instructions and continue the operation.



- (2) The selected virtual measuring point group is deleted from the [Virtual measuring point list] screen.
 Click on the [OK] button.
 The confirmation message will be displayed. Follow the message instructions and continue the operation.



- (3) The configured settings are saved in the setting file and the main menu screen reappears.

* You cannot delete the virtual measuring group that is used in the specific consumption or report. Before deleting such group, delete the relevant virtual measuring point from the specific consumption or report.

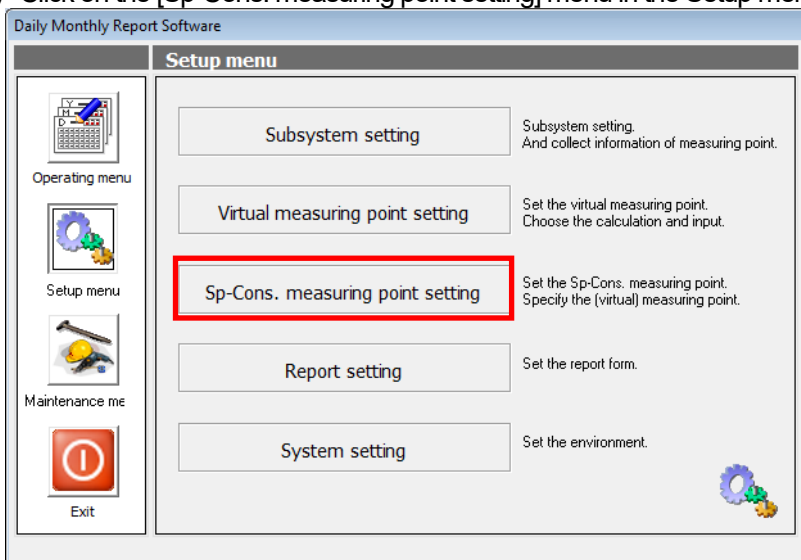
4.3 Specific consumption setting

This item sets the specific consumption to be used in the report.

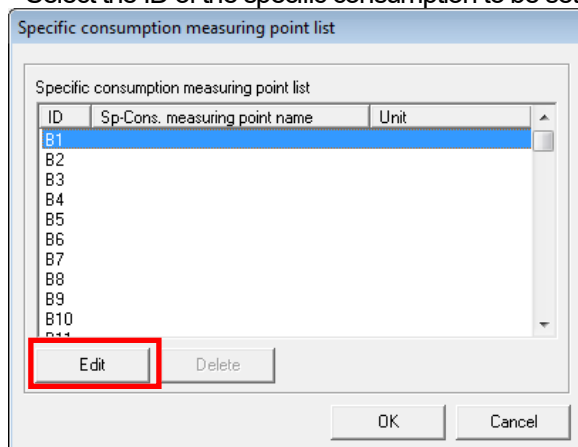
- * Up to 100 points can be set for the specific consumption.

4.3.1 Setting the specific consumption

- (1) Click on the [Sp-Cons. measuring point setting] menu in the Setup menu.



- (2) The [Specific consumption measuring point list] screen is displayed. Select the ID of the specific consumption to be set and click on the [Edit] button.

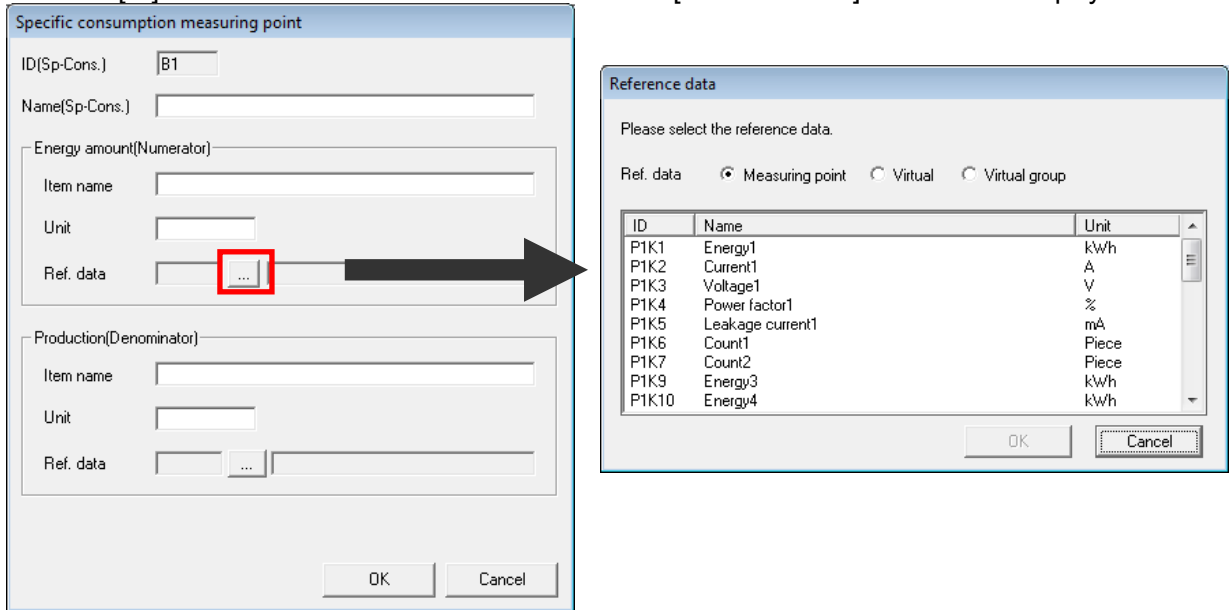


- (3) The [Specific consumption measuring point] screen is displayed.
Set each item.

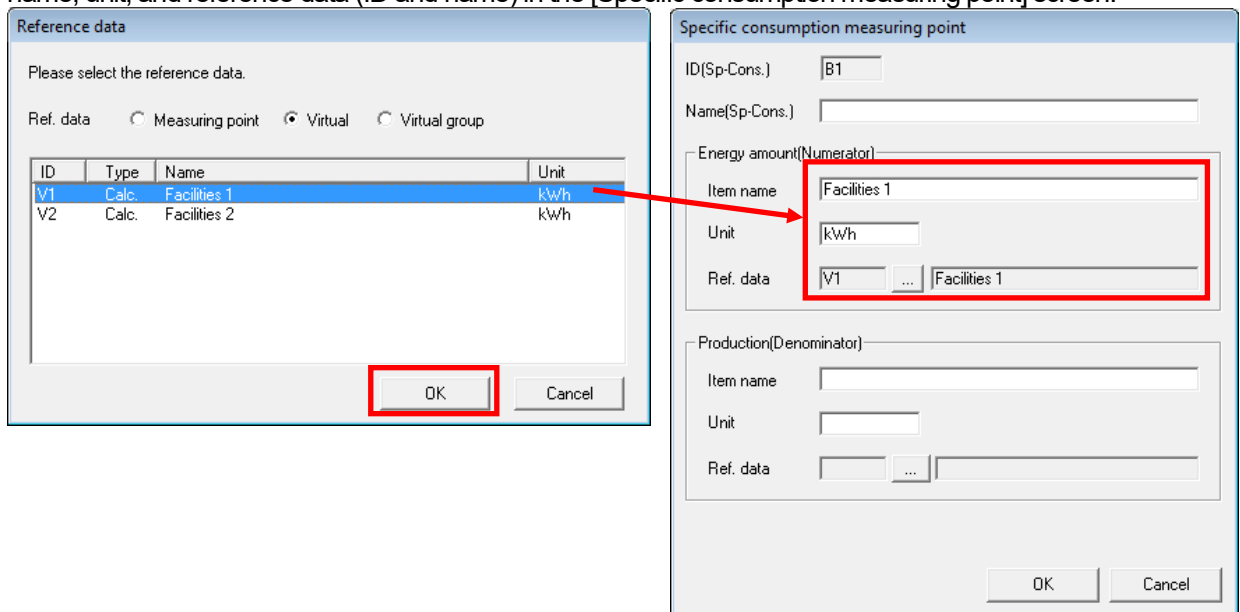
| Item | Details |
|---|--|
| Specific consumption measuring point name | Enter the name of the specific consumption. Up to 32 characters can be entered. |
| Item name | Enter the name of the item of the amount of energy and the production quantity. Up to 32 characters can be entered. |
| Unit | Enter the units of the amount of energy and the production quantity. Up to 8 characters can be entered. |
| Reference data | Select the data to be used as the amount of energy and the production quantity. |

[Selection of the reference data]

Click on the [...] button next to the reference data field and the [Reference data] screen will be displayed.



Select the measuring point from the list and click on the [OK] button. The selected point will be set for the item name, unit, and reference data (ID and name) in the [Specific consumption measuring point] screen.



To change the item name or unit, select the reference data first and then make the changes.

If the reference data is selected again after changing the item name or unit, the changes you made will be overwritten with the item name and unit of the reference data.

- (4) Click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.

- (5) The setting details of the specific consumption are displayed in the [Specific consumption measuring point list] screen. Click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.

| ID | Sp-Cons. measuring point name | Unit |
|-----|-------------------------------|-----------|
| B1 | Facilities 1 unit consumption | kWh/Piece |
| B2 | | |
| B3 | | |
| B4 | | |
| B5 | | |
| B6 | | |
| B7 | | |
| B8 | | |
| B9 | | |
| B10 | | |

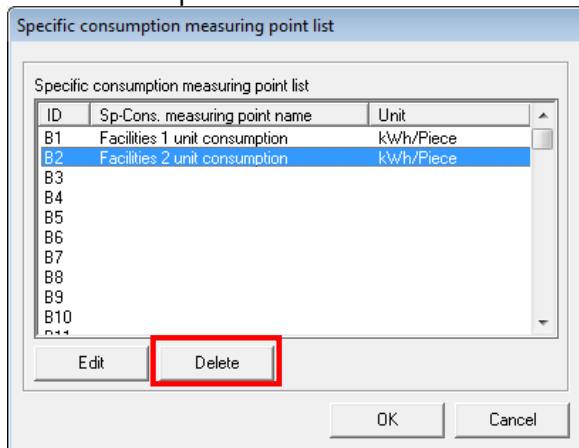
- (6) The configured settings are saved in the setting file and the main menu screen reappears.

Caution

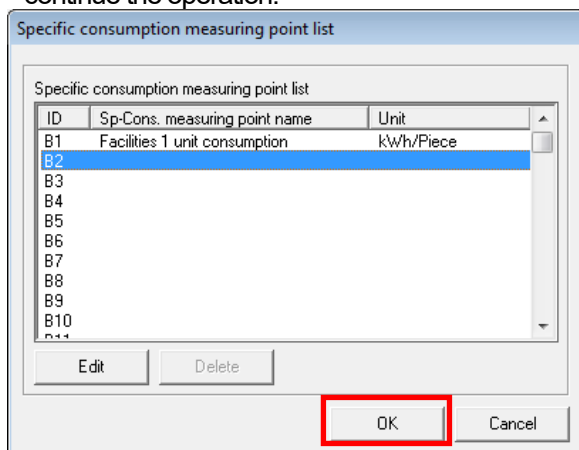
All the changes you made will be cancelled if the [Cancel] button in the [Specific consumption measuring point list] screen is clicked before they are saved in the setting file.

4.3.2 Deleting the specific consumption

- (1) Select the specific consumption to be deleted in the [Specific consumption measuring point list] screen and click on the [Delete] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.



- (2) The selected specific consumption is deleted from the [Specific consumption measuring point list] screen. Click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.



- (3) The configured settings are saved in the setting file and the main menu screen reappears.

You cannot delete the specific consumption when it is used in the report.

Before deleting such specific consumption, delete the relevant specific consumption from the report.

4.4 Report setting

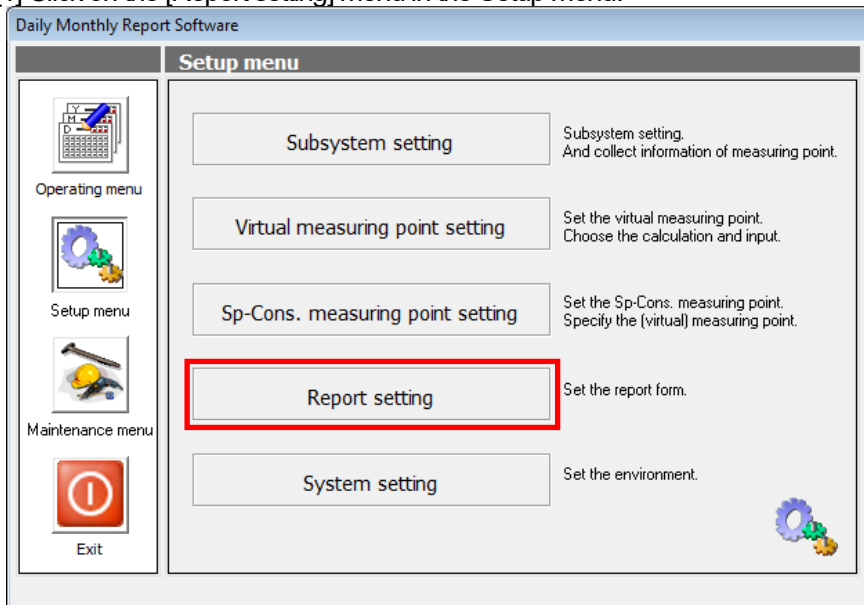
This item configures the settings for creating daily, monthly, or annual report.

4.4.1 Daily, monthly, and annual report settings

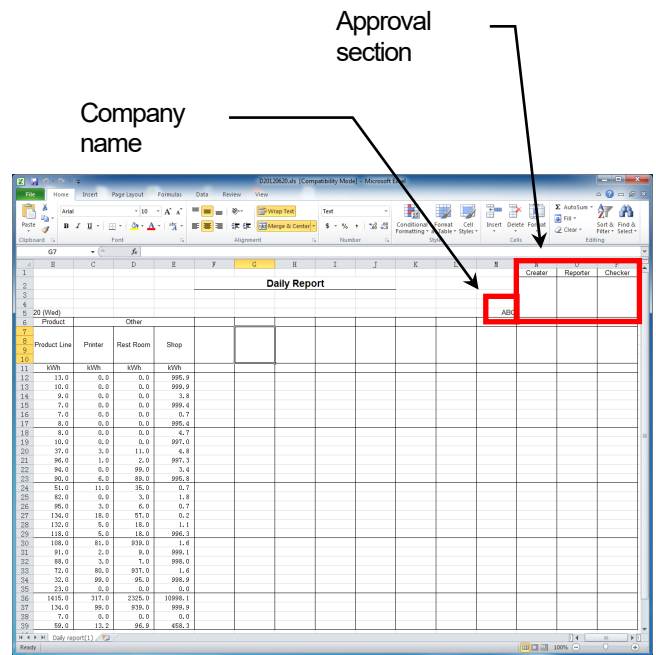
(1) Settings common to daily, monthly, and annual reports

This item configures the settings common to daily, monthly, and annual reports.

[1] Click on the [Report setting] menu in the Setup menu.



[2] The [Report form setting] screen is displayed.
Set each item.



| Item | Details | |
|--|--|--|
| Company | Enter the company name to be output in the daily, monthly, or annual report. Up to 32 64 characters can be entered. | |
| Field1 to 4 | Only the approval sections with a check mark are output. | |
| | Enter the headings to be output in the approval section. Up to 8 characters can be entered. You can enter the headings only for the approval sections with a check mark. | |
| Analog value to the Monthly/Annual report (Except the PF) | Average value Maximum value Minimum value | Select from 3 options shown on the left. |
| | * The demand value is treated as an analog value. | |
| Power factor to the Monthly/Annual report | Maximum value Minimum value | Select from 2 options shown on the left. |
| Comparison of the power factor (Daily/Monthly/Annual report) | Absolute value -0% < 100% < 0% | Select from 2 options shown on the left. |

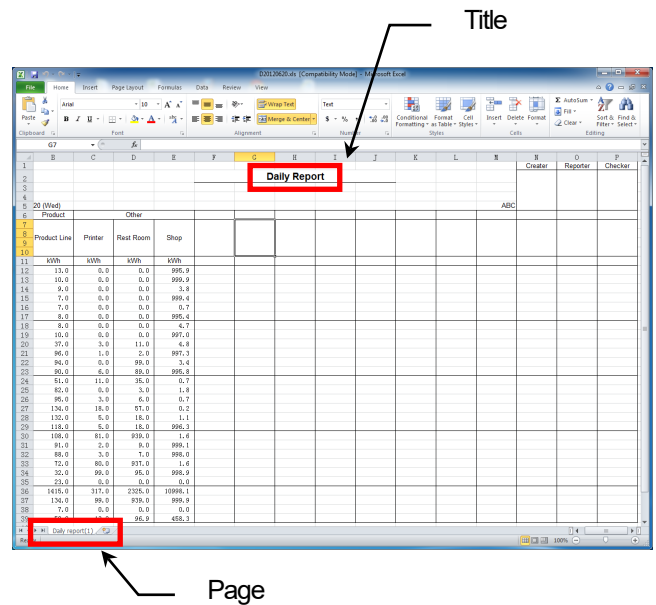
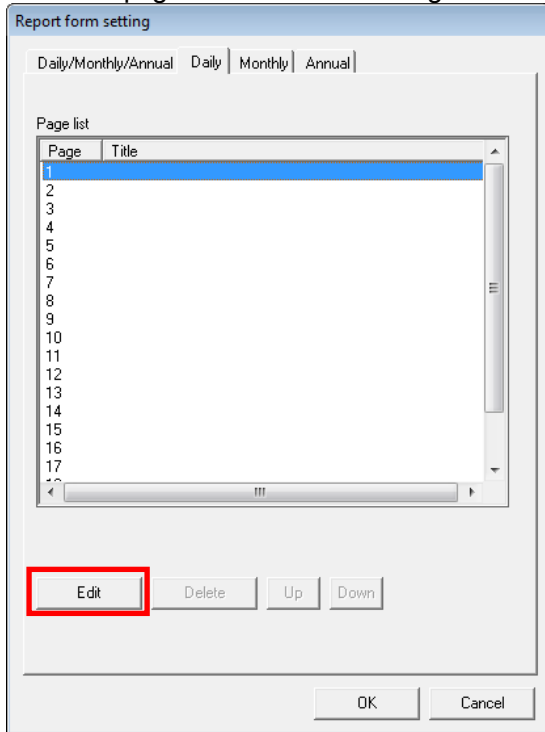
When the method for comparing the power factor is set to the absolute value and there is any power factor value having the same absolute value (e.g. -99.5 % and 99.5 %), the value that is measured first is treated as the maximum or minimum value.

(2) Daily report settings

This item sets the pages of the daily report.

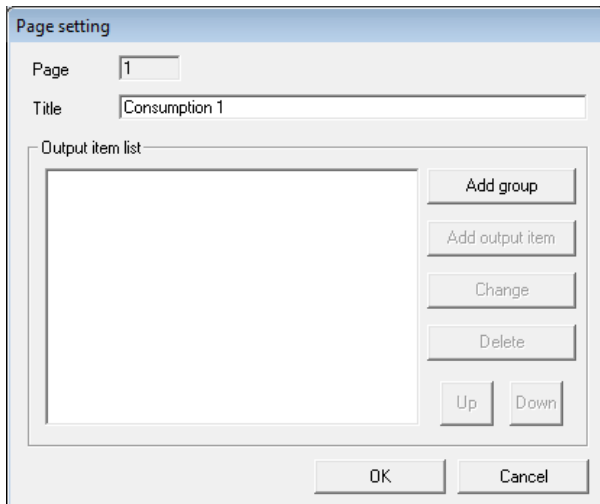
[1] Display the "Daily" tab in the [Report form setting] screen.

Select the page to be set from the "Page list" and click on the [Edit] button.



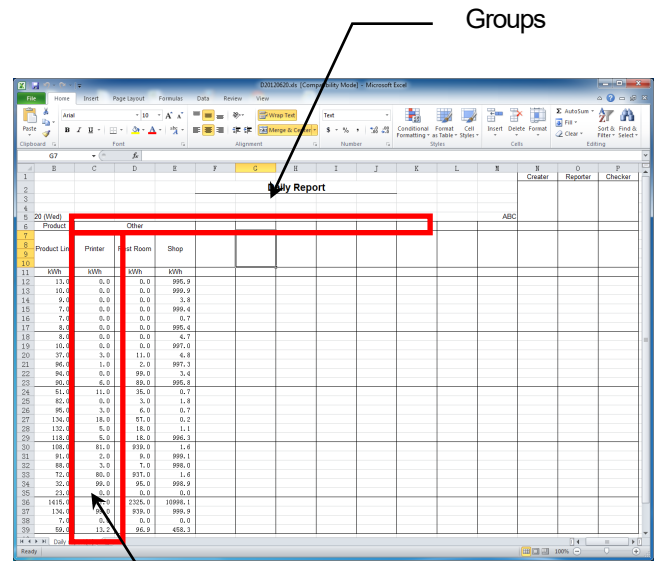
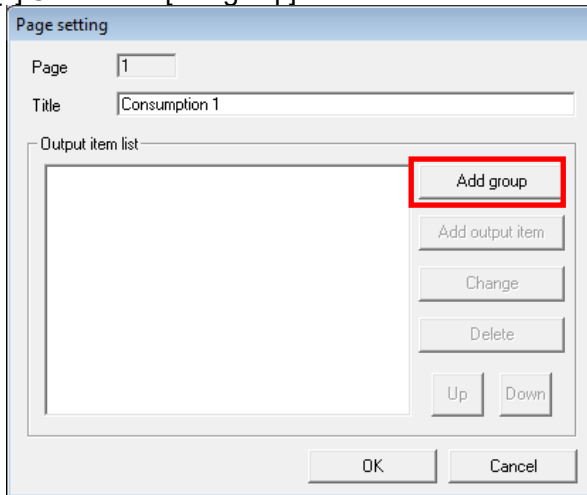
[2] The [Page setting] screen is displayed.

Enter the title.

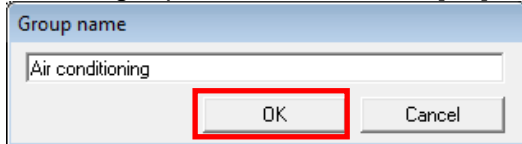


| Item | Details |
|-------|---|
| Title | Enter the title of the page. Up to 32 characters can be entered. |

[1] Click on the [Add group] button.

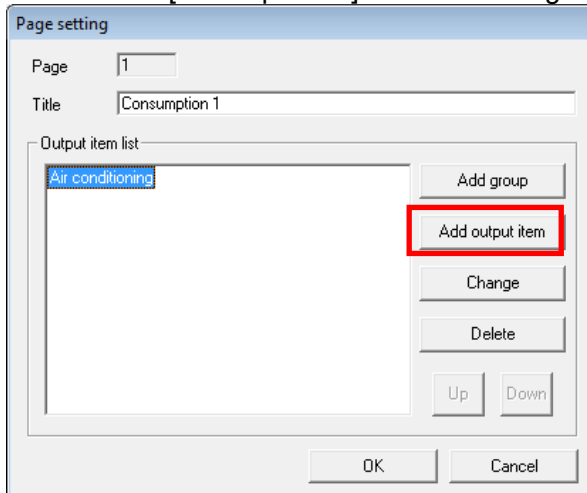


[2] The [Group name] screen is displayed. Enter the group name and click on the [OK] button.



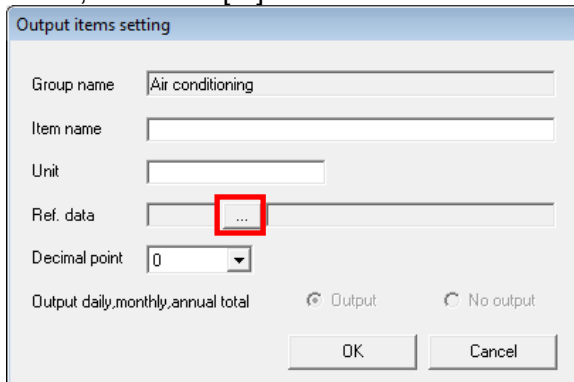
| Item | Details |
|------------|--|
| Group name | Enter the group name. Up to 32 characters can be entered. |

[3] The specified group is displayed in the output item list in the [Page setting] screen. Click on the [Add output item] button while the group is selected.



[4] The [Output items setting] screen is displayed.

First, click on the [...] button next to the reference data field.



Output items setting

Group name: Air conditioning

Item name:

Unit:

Ref. data: [...] (highlighted with a red box)

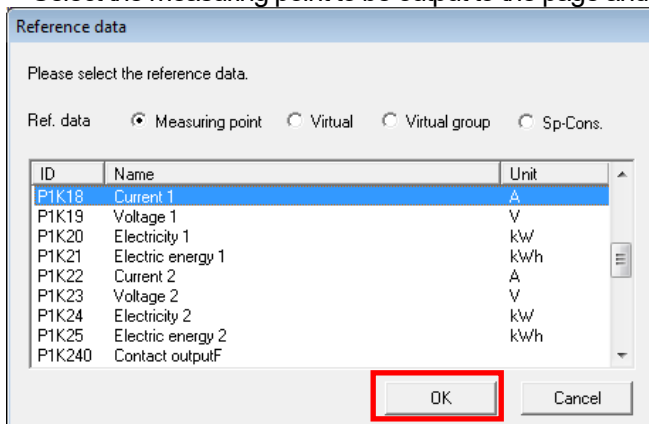
Decimal point: 0

Output daily,monthly,annual total: Output No output

OK Cancel

[5] The [Reference data] screen is displayed.

Select the measuring point to be output to the page and click on the [OK] button.



Reference data

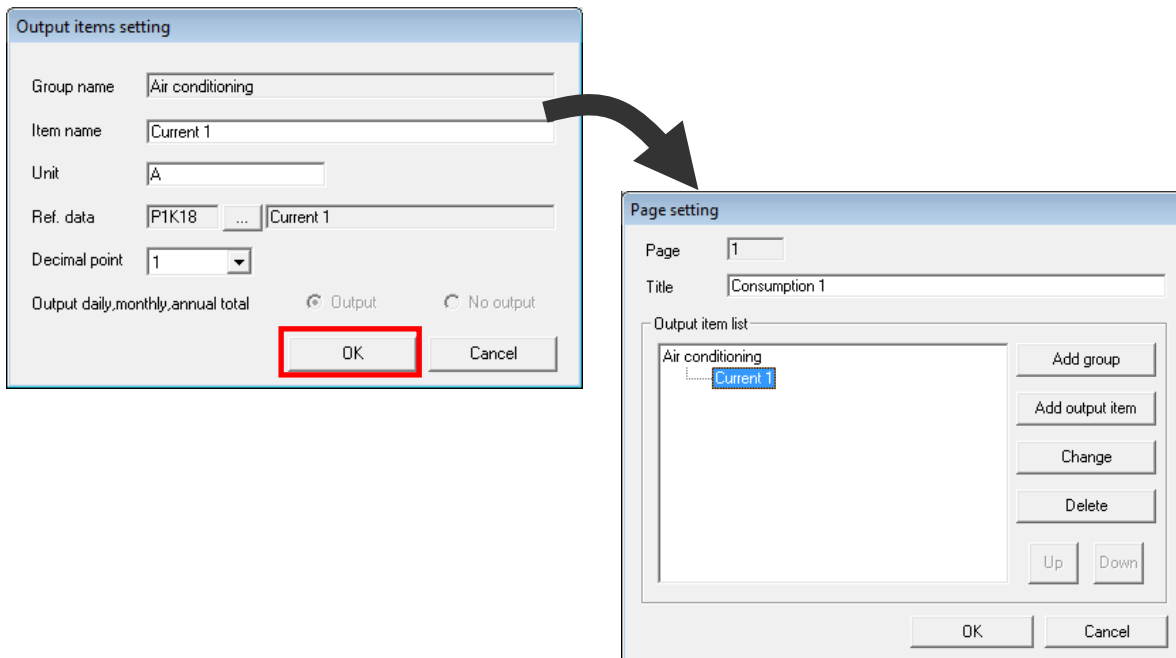
Please select the reference data.

Ref. data: Measuring point Virtual Virtual group Sp-Cons.

| ID | Name | Unit |
|--------|-------------------|------|
| P1K18 | Current 1 | A |
| P1K19 | Voltage 1 | V |
| P1K20 | Electricity 1 | kW |
| P1K21 | Electric energy 1 | kWh |
| P1K22 | Current 2 | A |
| P1K23 | Voltage 2 | V |
| P1K24 | Electricity 2 | kW |
| P1K25 | Electric energy 2 | kWh |
| P1K240 | Contact outputF | |

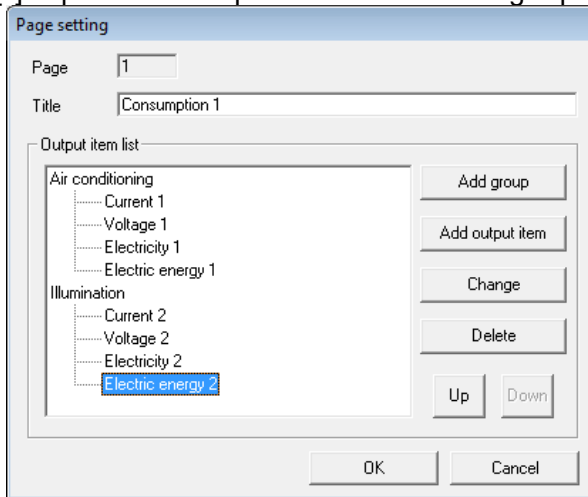
OK (highlighted with a red box) Cancel

[6] The selected measuring point is displayed in the [Output items setting] screen.
 Change each item as necessary and then click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation. The specified output item is displayed in the output item list in the [Page setting] screen.



| Item | Details |
|-----------------------------------|--|
| Item name | Enter the name of the item to be output to the report. Up to 32 characters can be entered. |
| Unit | Enter the unit to be output to the report. Up to 20 characters can be entered. |
| Decimal point | Select the number of digits after the decimal point used for the data output to the report. 0 to 5 digits |
| Output daily,monthly,annual total | Select whether or not to output the total value (daily total/monthly total/annual total) to the report when the reference data is set to the virtual measuring point or virtual measuring point group. |

[7] Repeat the above procedure to add further groups and output items.



[8] To change the group or output item that is already set, select the desired group or output item and click on the [Change] button.

[9] To delete the group or output item that is already set, select the desired group or output item and click on the [Delete] button. When the group is deleted, all the output items in the group are also deleted.

[10] To change the order of the groups or output items that are already set, select the group or output item and click on the [Up] button or the [Down] button.

(a) Moving the output item

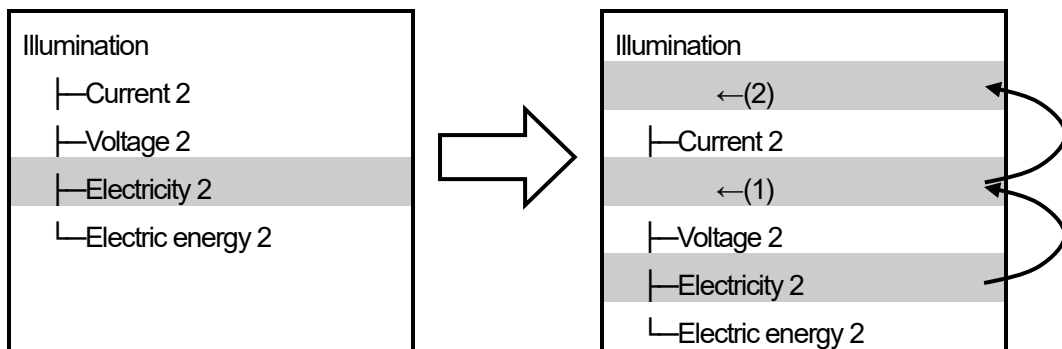
The order is changed in output item units.

You can move the output item across different groups.

[Example]

If "Electricity 2" is selected and the [Up] button clicked, it moves to the position (1).

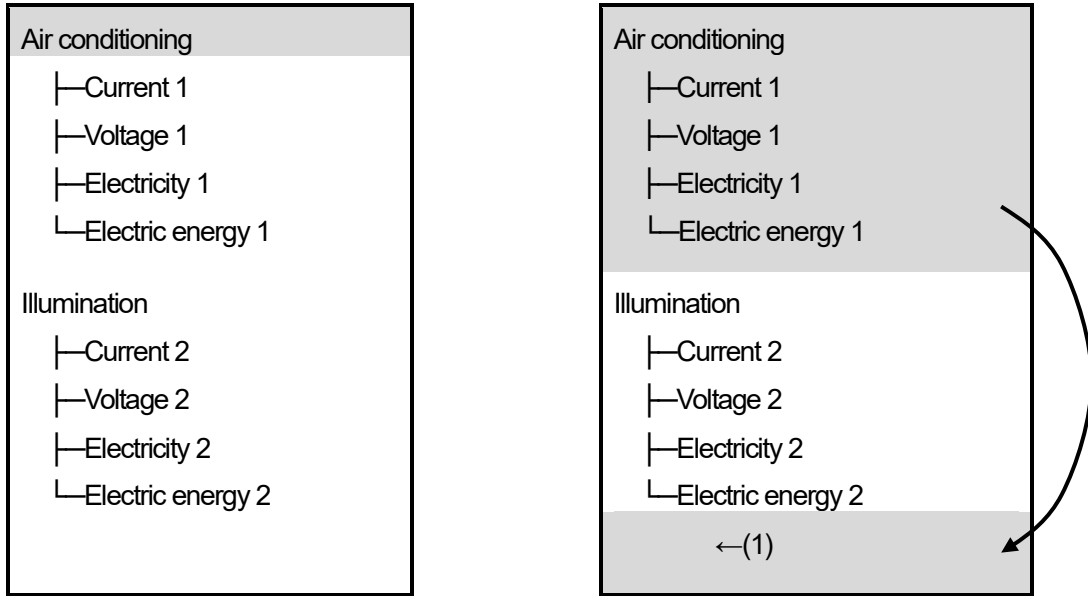
If the [Up] button is clicked again, it moves to the position (2).



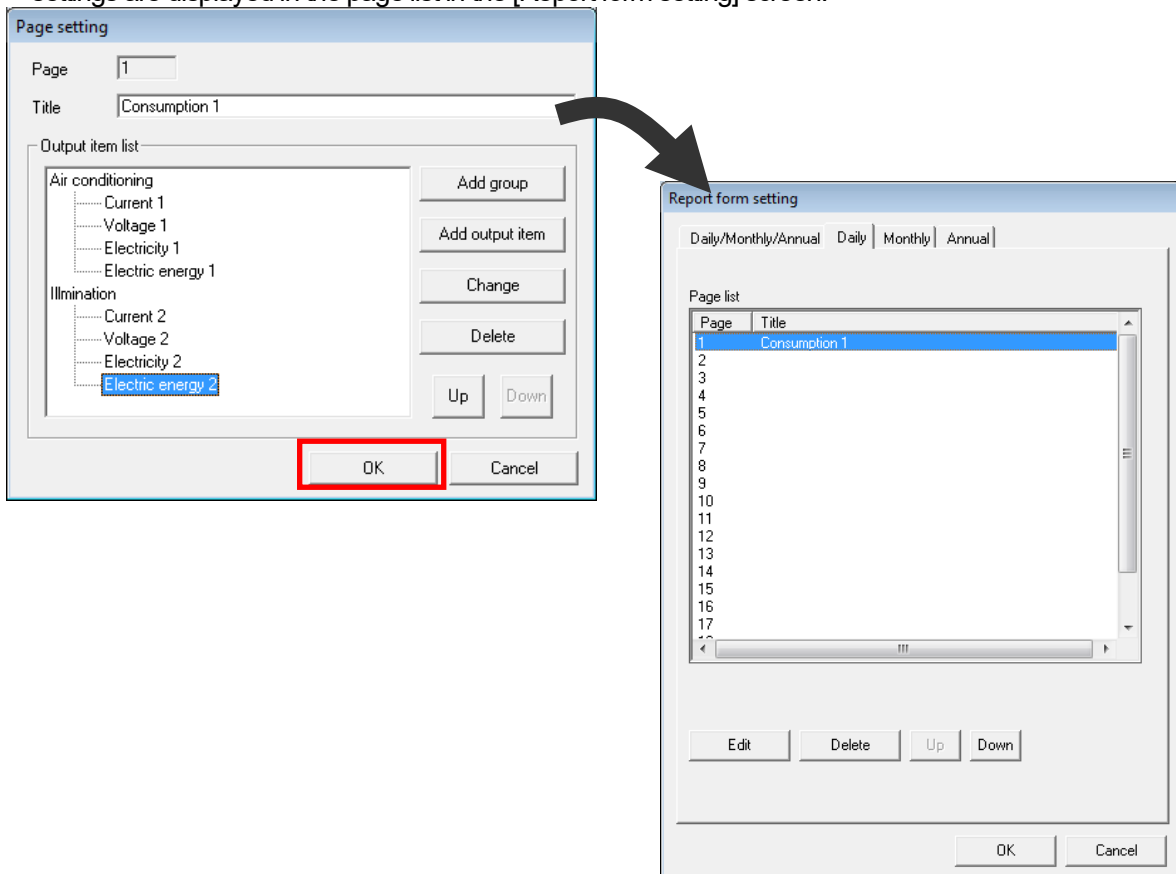
- (b) Moving the group
 The order is changed in group units.
 All the output items in the group are also moved.

[Example]

If "Air conditioning" is selected and the [Down] button clicked, the whole group moves to the position (1).



[11] When the settings of the group and output item are completed, click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation. The configured settings are displayed in the page list in the [Report form setting] screen.

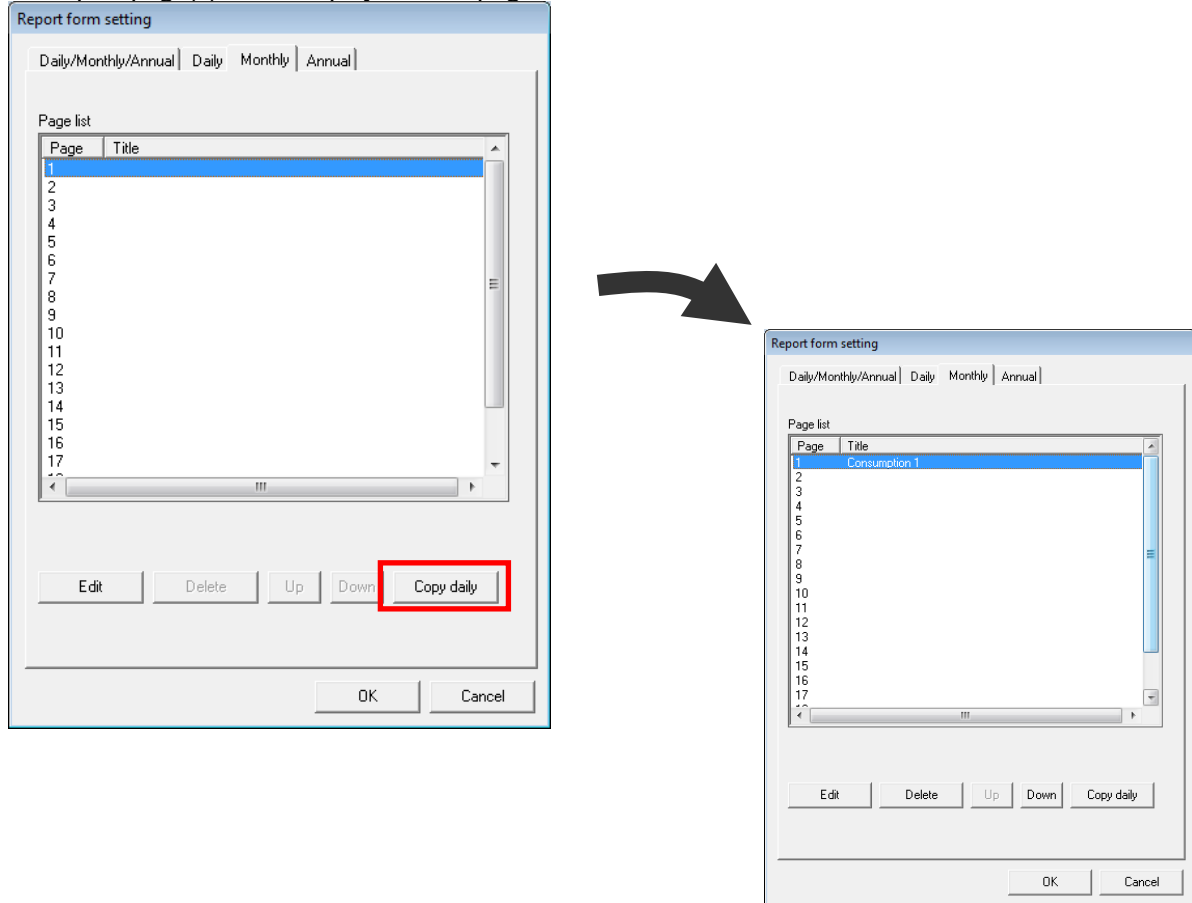


(3) Monthly report settings

This item sets the page for the monthly report.

Display the “Monthly” tab in the [Report form setting] screen.

To set the same page settings as those in the daily report, click on the [Copy daily] button and the details of the copied page(s) will be displayed in the page list..



- * To make the different settings from the daily report, refer to “(2) Daily report settings” and make the settings for each page.

Caution

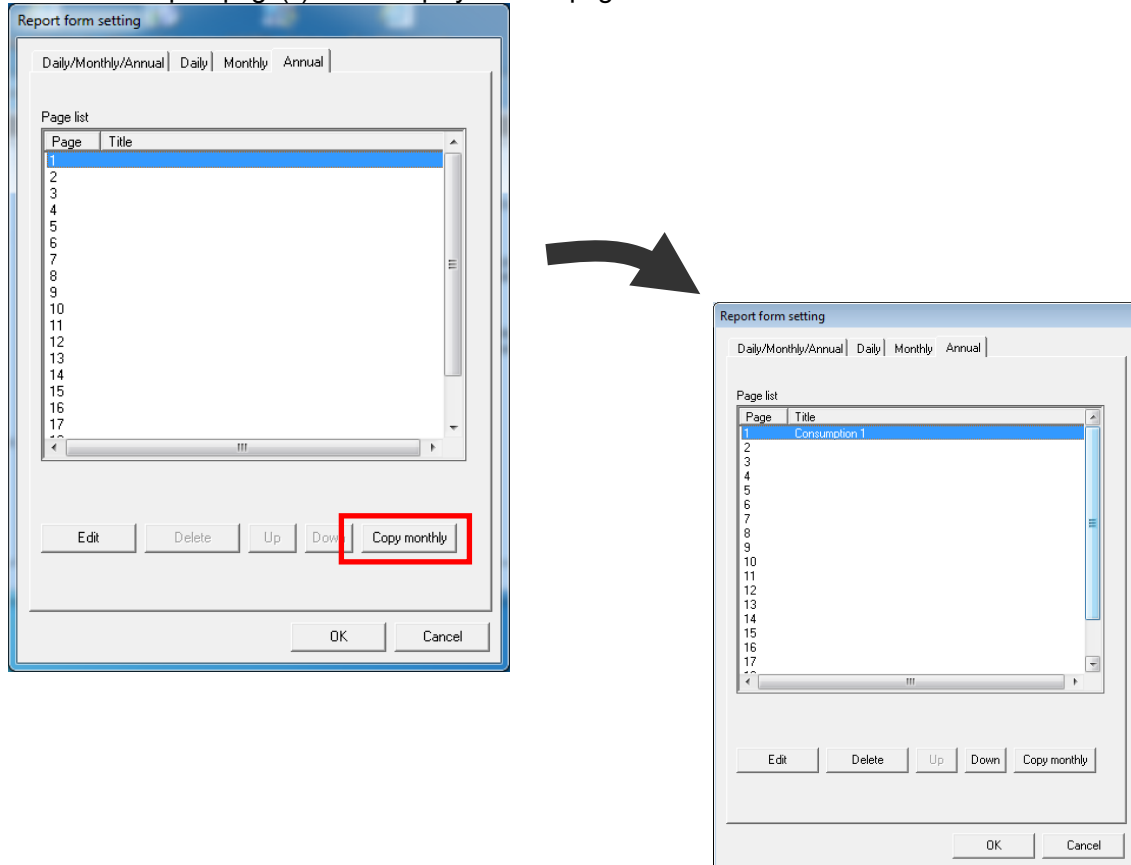
If you change the settings of the daily report after the copy has been made, these changes will not be reflected in the monthly report.
To reflect the changes made to the daily report in the monthly report, repeat the copy procedure again.

(4) Annual report settings

This item sets the page for the annual report.

Display the "" tab in the [Report form setting] screen.

To set the same page settings as those in the monthly report, click on the [Copy monthly] button and the details of the copied page(s) will be displayed in the page list..



- * To make the different settings from the monthly report, refer to "(2) Daily report settings" and make the settings for each page.

Caution

**If you change the settings of the monthly report after the copy has been made, these changes will not be reflected in the annual report.
To reflect the changes made to the monthly report in the annual report, repeat the copy procedure again.**

(5) Saving the setting data

This item saves the report settings to the setting file.

[1] Click on the [OK] button in the [Report form setting] screen. The confirmation message will be displayed. Follow the message instructions and continue the operation.

Report form setting

Daily/Monthly/Annual | Daily | Monthly | Annual

Company [ABC]

Field for probate

Field1 [Creator]

Field2 [Reporter]

Field3 [Checker]

Field4 []

Analog value to the Monthly/Annual report(except the PF)

Average Maximum Minimum

Power factor to the Monthly/Annual report

Maximum Minimum

Comparison of the power factor(Daily/Monthly/Annual report)

Absolute value -0% < 100% < 0%

OK Cancel

Caution

All the changes you made will be cancelled if the [Cancel] button in the [Report form setting] screen is clicked before they are saved in the setting file.

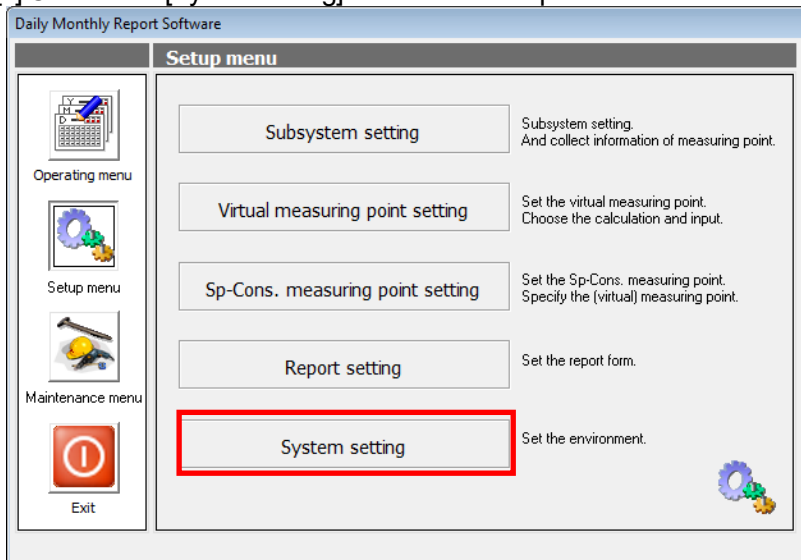
4.5 System setting

This item sets the usage environment of this software.

(1) Save path

This item sets the storage destination path for the report.

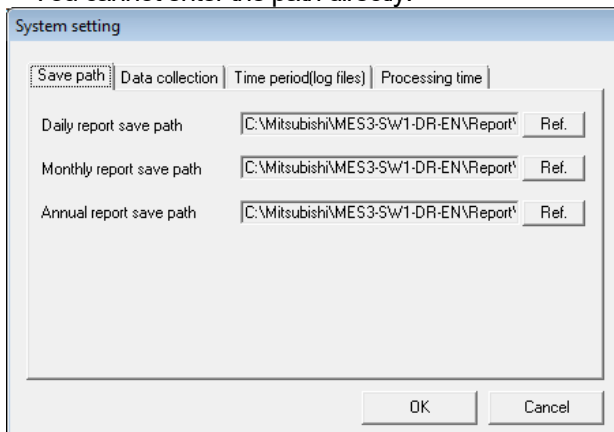
[1] Click on the [System setting] menu in the Setup menu.



[2] The [System setting] screen is displayed.

To change the storage destination path, click on the [Ref.] button and select a path.

You cannot enter the path directly.



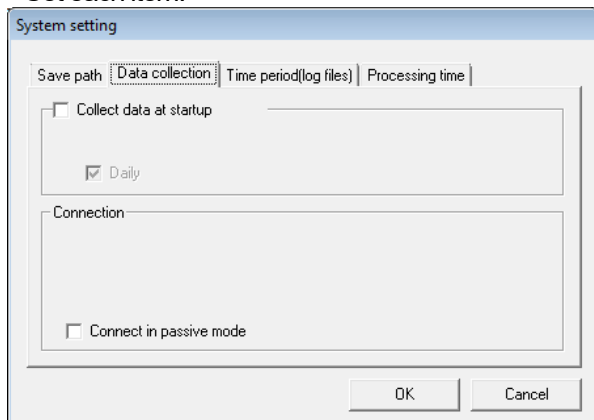
| Item | Details |
|--------------------------|---|
| Daily report save path | Set the storage destination path for the daily report file. Default: "C:\Mitsubishi\MES3-SW1-DR-EN\Report\DRReport" |
| Monthly report save path | Set the storage destination path for the monthly report file. Default: "C:\Mitsubishi\MES3-SW1-DR-EN\Report\MReport" |
| Annual report save path | Set the storage destination path for the annual report file. Default: "C:\Mitsubishi\MES3-SW1-DR-EN\Report\YReport" |

* The default storage destination paths shown above are the paths used when this software is installed at the default installation destination.

(2) Data collection

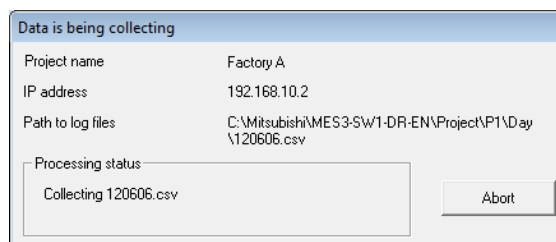
This item sets whether or not to automatically perform the data collection when this software is started up.

- [1] Display the “Data collection” tab in the [System setting] screen.
Set each item.



| Item | Details |
|---------------------------|--|
| Collect data at startup | Enter a check mark to perform the data collection when the software is started up. (*) |
| Connect in a passive mode | Enter a check mark when the software use FTP to connect in a passive mode. |

* **When a check mark is added to Collect data at startup, a “Collecting the data” message shown on the right is displayed when the software is started up and data is collected from the subsystem. This processing may take several minutes. Do not perform any operation other than cancel while this message is being displayed. Depending on the operating system being used, the application may end abnormally.**



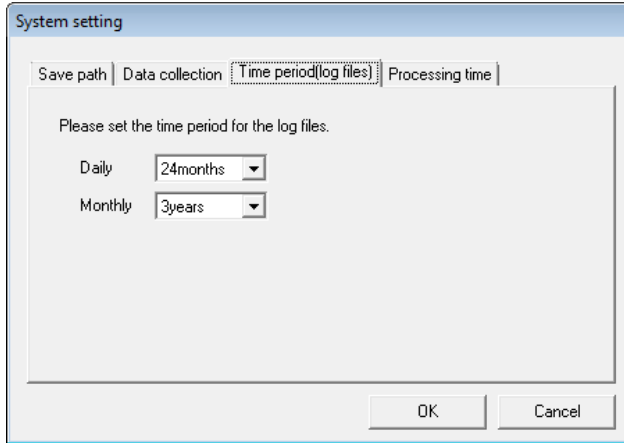
(3) Time period(log files)

This item sets the storage period of the collected logging files.

Files which have exceeded the storage period are deleted in order from the oldest file when the files are collected.

[1] Display the “Time period(log files)” tab in the [System setting] screen.

Set each item.



| Item | Details |
|---------|---|
| Daily | Set the storage period for the collected daily logging file. 1 to 36 months (Default: 24 months) |
| Monthly | Set the storage period for the collected monthly logging file. 1 to 5 years (Default: 3 years) * This storage period also applies to that of the monthly report CSV file. |

(4) Processing time

This item sets the processing schedule (closing date and time) of the report.

Refer to the user manuals for each subsystem for checking the monthly logging time.

[1] Display the "Processing time" tab in the [System setting] screen.

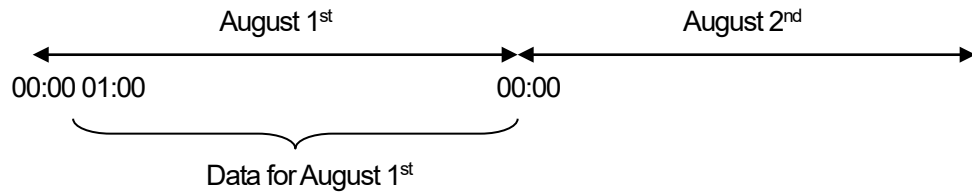
Set each item.

| Item | Details |
|------------------------------------|---|
| Processing time for daily report | Select the time to collect the daily data. 00:00 to 23:00 (Default: 00:00) |
| Processing time for monthly report | Select the date to collect the monthly data. 1 to 31 (Default: 31) |
| Processing month for annual report | Select the month to collect the annual data. January to December (Default: December) |

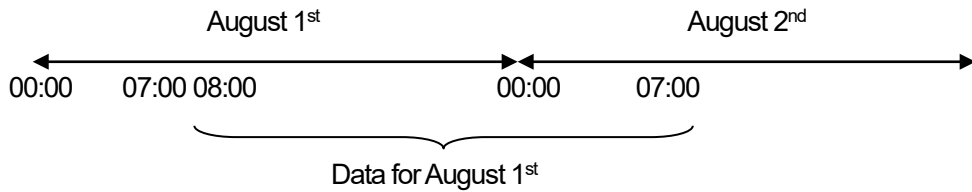
- * If the 31st is specified for the date to collect the monthly data, the processing is automatically performed on the last day (February 28, etc.) in the month having no 31st day.
- * If Processing time for monthly report / Processing month for annual report is changed, create the monthly/annual report again.

[Processing time for daily report]

Example) If 00:00 is set, the data from 01:00 on August 1st to 00:00 on the next day is output to the daily report as the data for August 1st.

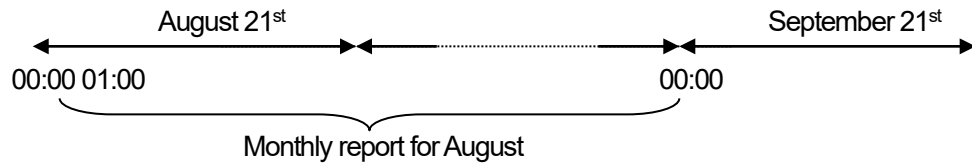


Example) If 07:00 is set, the data from 08:00 on August 1st to 07:00 on the next day is output to the daily report as the data for August 1st.



[Processing time for monthly report]

Example) If 20th is set (and the daily collection time is 00:00) and August is specified for the monthly report, the data from 01:00 on August 21st to 00:00 on September 21st is output to the monthly report.



[Processing month for annual report]

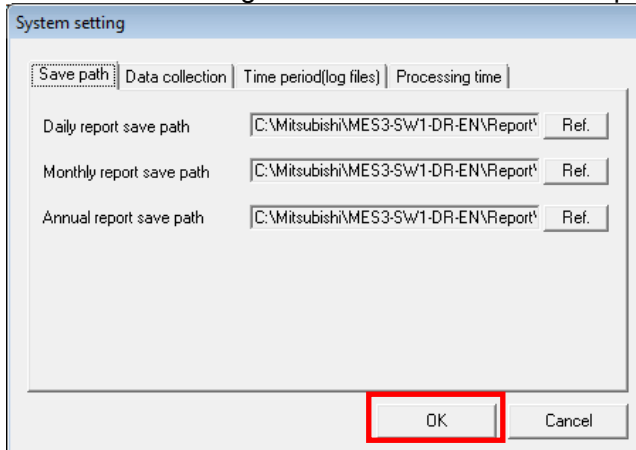
Example) If March is set (and the monthly processing is on 20th and daily processing is at 00:00) and 2008 is set for the compiling year for the annual report, the data from 01:00 on April 21, 2008 to 00:00 on April 21, 2009 is output to the annual report.



(5) Saving the setting data

This item saves the details of the system setting to the setting file.

- [1] Click on the [OK] button in the [System setting] screen. The confirmation message will be displayed. Follow the message instructions and continue the operation.

**Caution**

All the changes you made will be cancelled if the [Cancel] button in the [System setting] screen is clicked before they are saved in the setting file.

CHAPTER 5 COLLECTING FUNCTION

This chapter explains the function for collecting the data from the subsystem.

5.1 Data collection

The logging files are collected from the subsystems via the LAN.

The collected logging files are stored at the logging file storage destination paths specified for each subsystem.

When the files are collected, the files which have exceeded their storage periods are deleted from the storage destination paths.

The data from the subsystem is collected based on the current time of the computer.

If the time of the subsystem is different to that of the computer, the collection of the latest logging file may fail.

Synchronize the time of the subsystem periodically with that of the computer.

(As a target, an error of the times should be 3 minutes or less.)

5.1.1 Data collection timing

The following shows the timing and target of the collection.

(1) When collecting the data manually

Manual collection is performed from the [Data Collection] menu in the operations menu.

The following are the target of the collection:

| | |
|-----------|-------------------------------|
| Subsystem | All the registered subsystems |
| File type | Daily |

(2) When the software is started up

If you set the system setting of this software to collect the data at the start up, the data is collected automatically when this software is started up.

The following are the target of the collection:

| | |
|-----------|-------------------------------|
| Subsystem | All the registered subsystems |
| File type | Daily |

(3) At the creation of the daily or monthly report (not of the annual report)

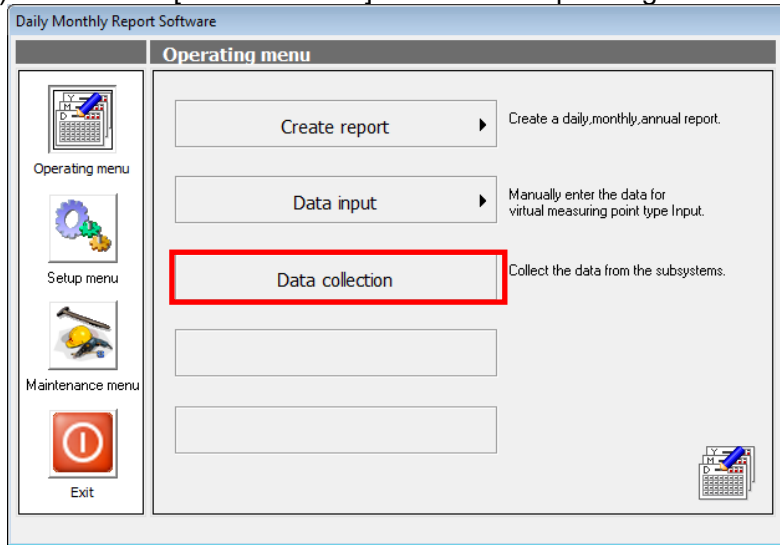
The necessary data is collected automatically when the daily or monthly report is created.

The following are the target of the collection:

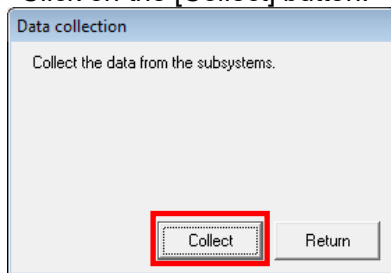
| | |
|-----------|--|
| Subsystem | When creating the daily report: Only the subsystem necessary for the creation of the daily report When creating the monthly report: All the registered subsystems |
| File type | Daily |

5.1.2 Manual data collection

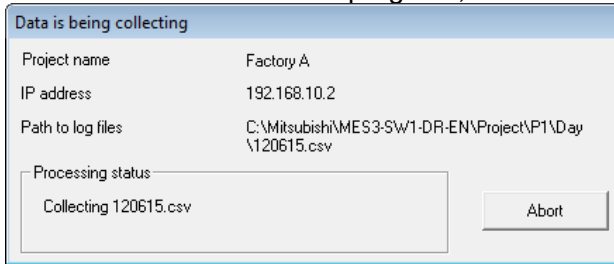
(1) Click on the [Data collection] menu in the Operating menu.



(2) The [Data collection] screen is displayed.
Click on the [Collect] button.



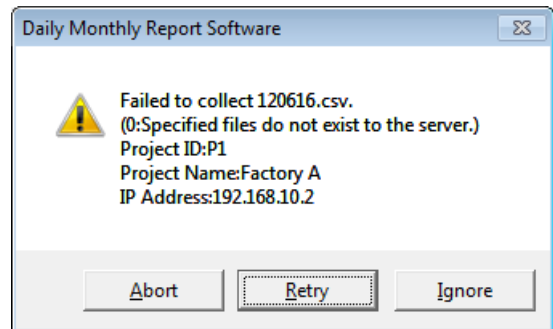
- (3) The [Data is being collecting] screen is displayed and the selected logging files are collected. To cancel the collection in progress, click on the [Abort] button.



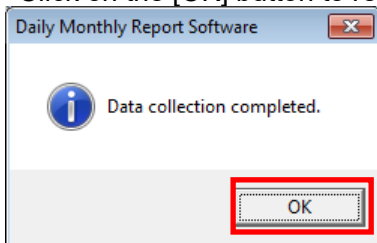
Caution

This processing may take several minutes. Do not perform any operation other than cancel while the message is being displayed. Depending on the operating system being used, the application may end abnormally.

- * If there is no file of the specified date in the subsystem, the message as shown on the right will be displayed for each file. If you know that the data does not exist in the subsystem, for example, because the power was cut off, click on the [Ignore] button and continue the data collection.



- (4) The message shown below will be displayed when the data collection is completed. Click on the [OK] button to return to the [Data collection] screen.



When the data is collected for the first time, all the selected logging files which exist in the sub system will be collected.

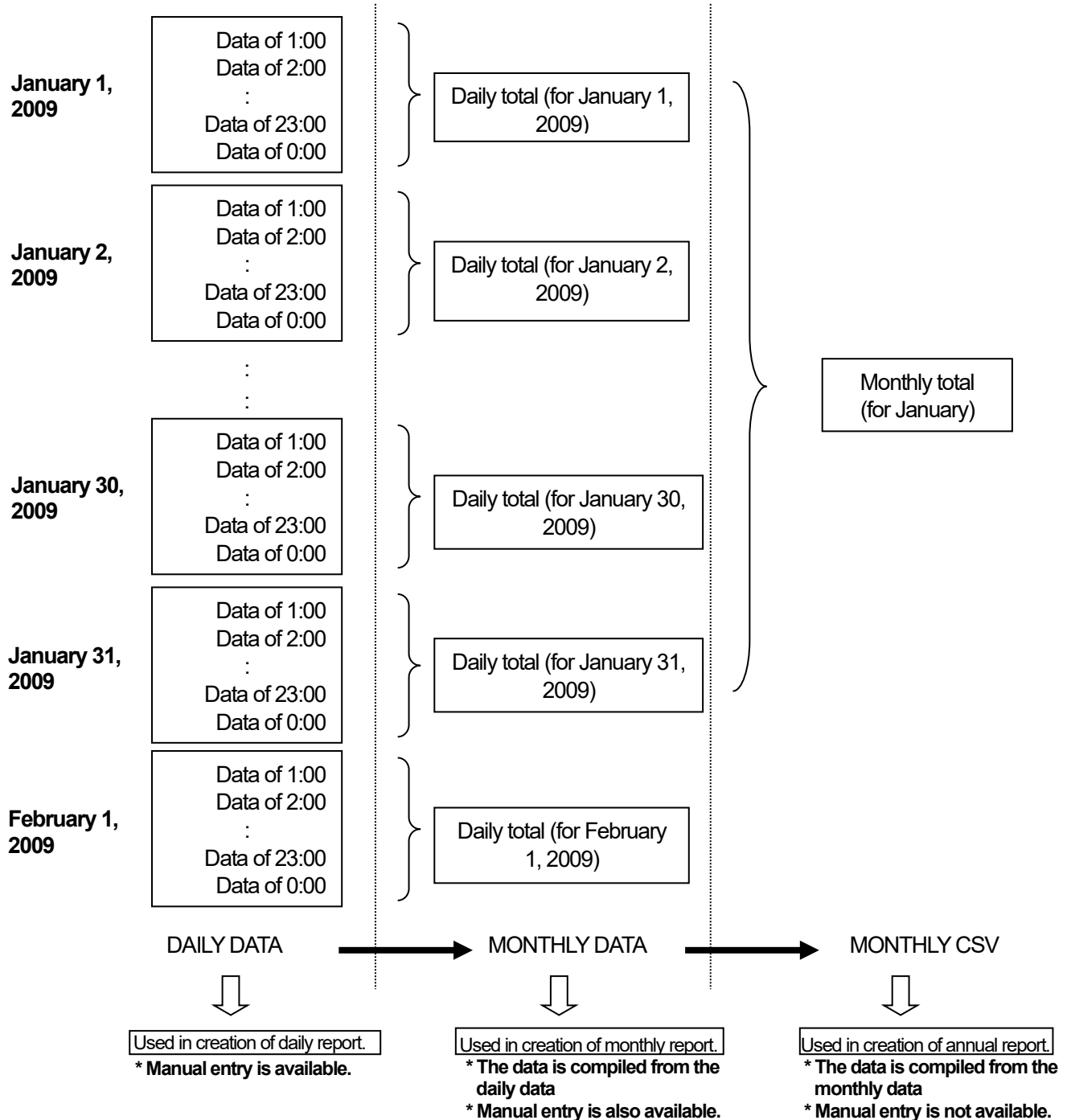
CHAPTER 6 ENTRY FUNCTION

6.1 Data entry

This item enters the daily or monthly data for the virtual measuring point for entry.

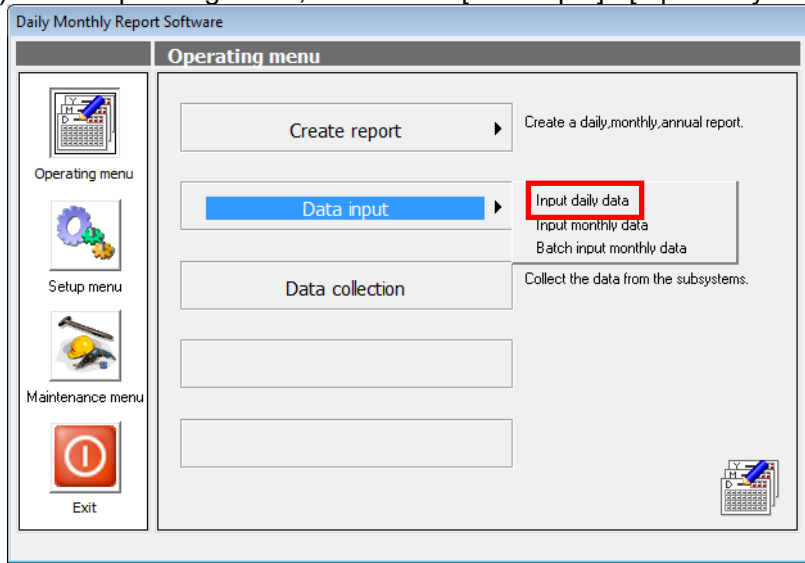
6.1.1 Outline of the data entry

There are three types of data; daily, monthly, and annual. Only the daily and monthly data can be entered.

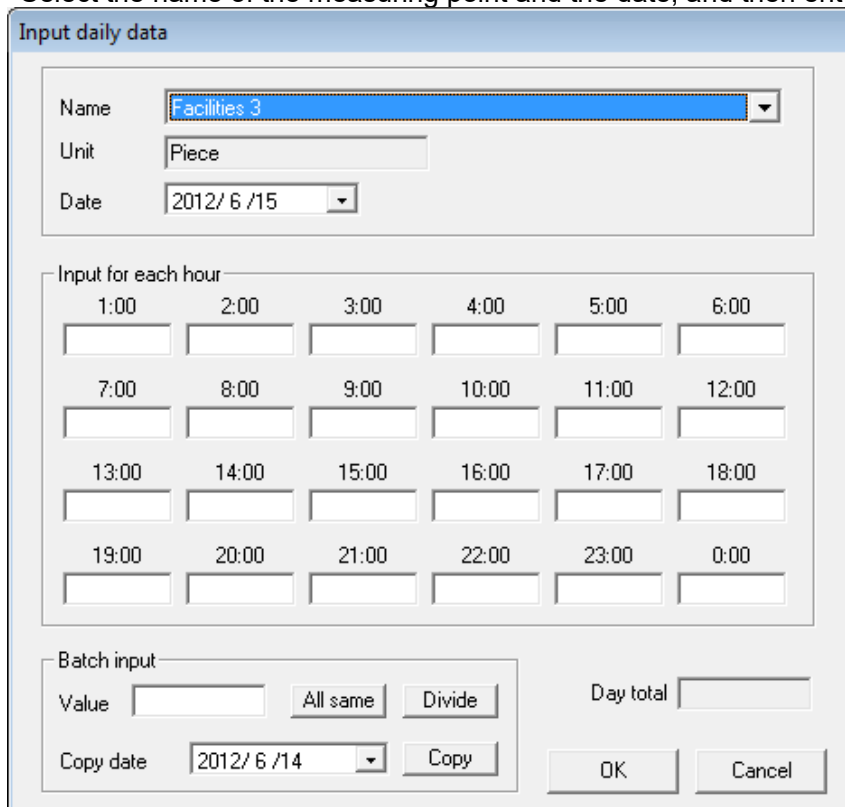


6.1.2 Input the daily data

(1) In the Operating menu, click on the [Data input] - [Input daily data] menu.



(2) The [Input daily data] screen is displayed. Select the name of the measuring point and the date, and then enter the data.



| Item | Details |
|---------------------------|--|
| Name | Select the virtual measuring point for entry to which the data is entered. |
| Data | Select the date to which the data is entered. The selectable range is: "current date – storage period" to "current date + 31 days" (Storage period = storage month of the daily logging file × 31 days) Example) If the storage month of the daily logging file is 24 months and the current day is June 10, 2009: May 28, 2007 – July 11, 2009 |
| Input for each hour | Enter one hour data of 01:00 – 23:00 and 00:00 Entry range: 0 to 999,999.99 (up to 2 digits after decimal point) |
| Batch input -Value | Enter the value when performing the batch or equalized entry. Entry range: Batch 0 to 999,999.99 (up to 2 digits after decimal point) Equalized 0 to 23,999,999.76 (up to 2 digits after decimal point) |
| Batch input -Copy date | Select the date of the copy source when copying the data of other dates. |
| Day total | Displays the total of the data entered for each time. However, if you enter the data for the date displayed in the monthly data entry, that data is displayed as a total. |

01:00 indicates the data from 00:00 to 01:00; 02:00 indicates the data from 01:00 to 02:00, ... , and 00:00 indicates the data from 23:00 to 00:00.

If you enter the monthly data after entering the daily data, the data entered for monthly is given priority in registration of the daily total.

If the daily data is then entered again, the daily total will be given priority.

(3) The following procedure is used to enter the data collectively.

[1] Batch entry

Enter a figure in the "Value" field and click on the [All same] button. The entered figure will be pasted on each of 01:00 – 23:00 and 00:00.

- * Caution is required as any data already entered will be overwritten.
- * If the "Value" field is blank, the data for each of 01:00 – 23:00 and 00:00 will also become blank.

[2] Equalized entry

Enter a figure in the "Value" field and click on the [Divide] button. The figure obtained by dividing the entered figure by 24 will be pasted on each of 01:00 – 23:00 and 00:00.

- * Caution is required as any data already entered will be overwritten.
- * When dividing the figure by 24, the data after the 3rd decimal point is discarded.
Example 1) Equalized entry of 2400 → 100 is pasted on each of 01:00 – 23:00 and 00:00
($2400 \div 24 = 100$)
Example 2) Equalized entry of 2500 → 104.16 is pasted on each of 01:00 – 23:00 and 00:00
($2500 \div 24 = 104.166\dots$)
- * If the result of discarding the data after the 3rd decimal point is 0.00, 0 is pasted.

[3] Copy entry

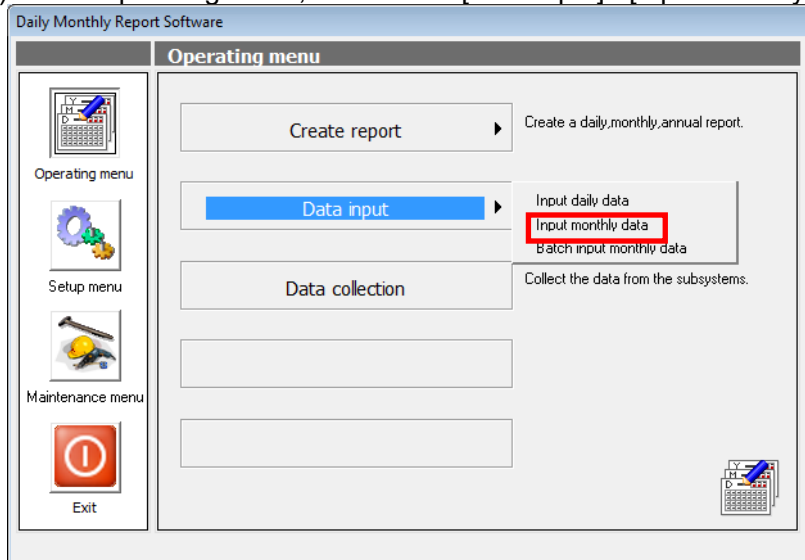
Select the "Copy date" and click on the [Copy] button. The data of the specified date is copied.

- * Caution is required as any data already entered will be overwritten.
- * The data of a date which has not been entered cannot be copied.

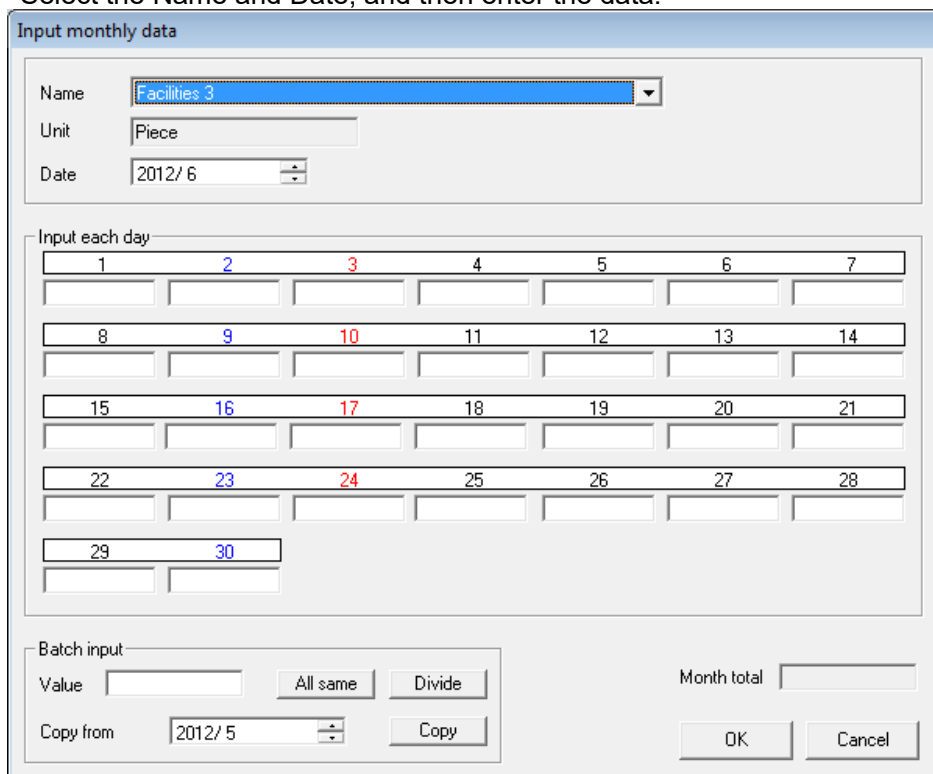
(4) When the data entry is completed, click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.

6.1.3 Input monthly data

(1) In the Operating menu, click on the [Data input] - [Input monthly data] menu.



(2) The [Input monthly data] screen is displayed. Select the Name and Date, and then enter the data.



| Item | Details |
|---------------------------|---|
| Name | Select the virtual measuring point for entry to which the data is entered. |
| Date | Select the year and month to which the data is entered. The selectable range is: "current month – storage period" to "current month + 12 months" (Storage period = storage year of the monthly logging file × 12 months) Example) If the storage year of the monthly logging file is 3 years and the current month is June 2009: June 2006 – June 2010 |
| Input each day | Enter the data from the first to the last day of the month. Entry range: 0 to 99,999,999.99 (up to 2 digits after decimal point) If the daily data is entered, it will be overwritten with the data of the daily total. |
| Batch input -Value | Enter the value for the batch or equalized entry. Entry range: Batch 0 to 99,999,999.99 (up to 2 digits after decimal point) Equalized 0 to 99,999,999.99 × number of days in month (up to 2 digits after decimal point) |
| Batch input -Copy from | Select the year and month of the copy source when copying the data of other years and months. |

(3) To enter the data collectively, follow the procedure below.

[1] Batch entry

Enter a figure in the "Value" field and click on the [All same] button. The entered figure will be pasted on each day from the first to the last day of the month.

- * Caution is required as any data already entered will be overwritten.
- * If the "Value" field is blank, the data from the first to the last day of the month will also become blank.

[2] Equalized entry

Enter a figure in the "Value" field and click on the [Divide] button. The figure obtained by dividing the entered figure by the number of days in the month will be pasted on each day from the first to the last day of the month.

- * Caution is required as any data already entered will be overwritten.
- * When dividing the figure, the data after the 3rd decimal point is discarded.
- * If the result of discarding the data after the 3rd decimal point is 0.00, 0 is pasted.

[3] Copy entry

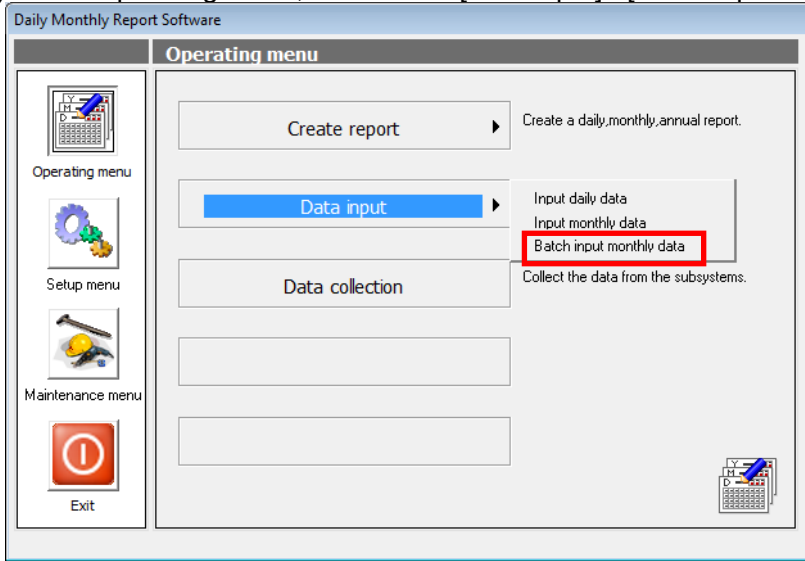
Select the "Copy date" and click on the [Copy] button. The data of the specified year and month is copied.

- * Caution is required as any data already entered will be overwritten.
- * The data of a year and month which has not been entered cannot be copied.

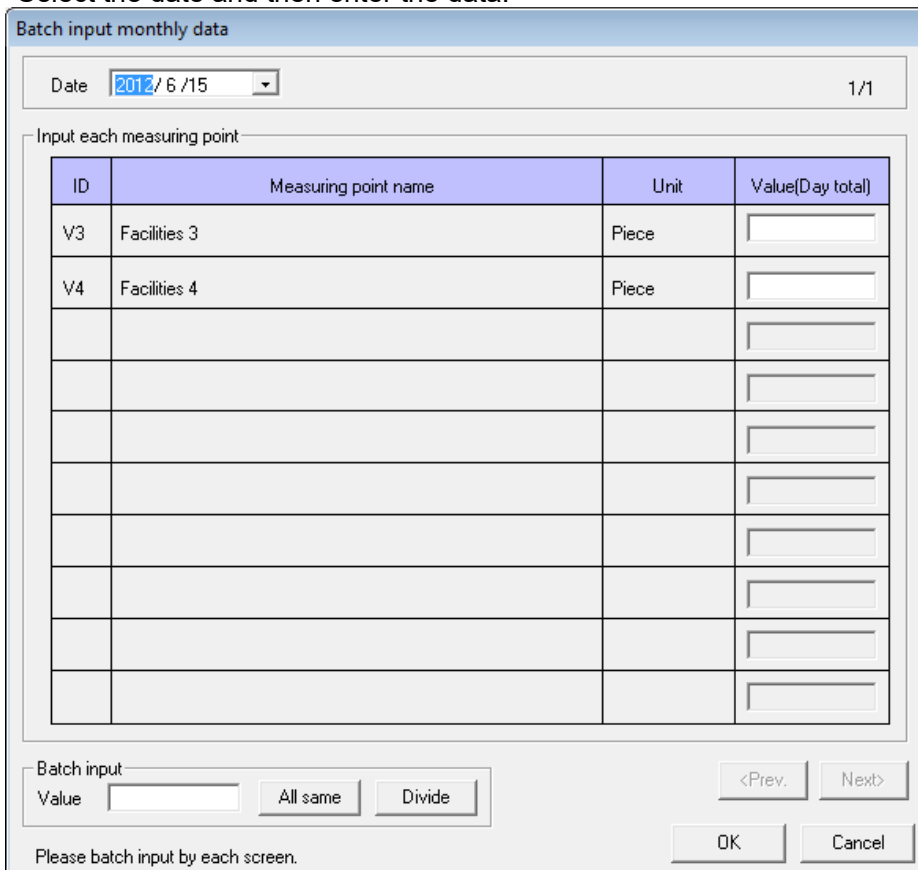
(4) When the data entry is completed, click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.

6.1.4 Batch input monthly data

(1) In the Operating menu, click on the [Data input] - [Batch input monthly data] menu.



(2) The [Batch input monthly data] screen is displayed. Select the date and then enter the data.



| Item | Details |
|-----------------------|--|
| Date | Select the year and month to which the data is entered. The selectable range is: “current date – storage period” to “current date + 12 months” (Storage period = storage year of the monthly logging file × 12 months) Example) If the storage year of the monthly logging file is 3 years and the current date is June 10, 2009: June 10, 2006 – June 10, 2010 |
| Value(Day total) | Enter the data for one day of each measuring point. Entry range: 0 to 99,999,999.99 (up to 2 digits after decimal point) |
| Batch input -Value | Enter the value for batch or equalized entry. Entry range: Batch 0 to 99,999,999.99 (up to 2 digits after decimal point) Equalized 0 to 99,999,999.99 × number of measuring points (up to 2 digits after decimal point) |

In the specific consumption data list display, the figures after the decimal point are rounded off and the display is made in an integer.

(3) To enter the data collectively, follow the procedure below.

[1] Batch entry

Enter a figure in the “Value” field and click on the [All same] button. The entered figure will be pasted on each measuring point.

- * Caution is required as any data already entered will be overwritten.
- * If the “Value” field is blank, the data for each measuring point will also become blank.

[2] Equalized entry

Enter a figure in the “Value” field and click on the [Divide] button. The figure obtained by dividing the entered figure by the number of the measuring points will be pasted on each measuring point.

- * Caution is required as any data already entered will be overwritten.
- * When dividing the figure, the data after the 3rd decimal point is discarded.
- * If the result of discarding the data after the 3rd decimal point is 0.00, 0 is pasted.

(4) When the data entry is completed, click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.

CHAPTER 7 REPORT CREATION

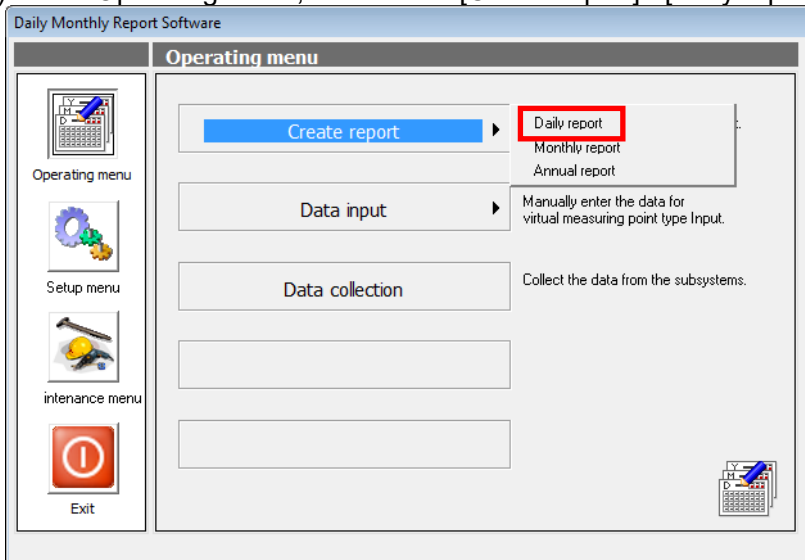
This chapter explains the method for creating report.
 This item creates the report from the collected logging files.
 If the logging file in the scope of the specified compiling date has not been collected yet, the data is collected from the subsystem.

- * See “5.1 Data collection” for the information on the data collection processing.
- * See “4.4 Report setting” for the information on the report setting.

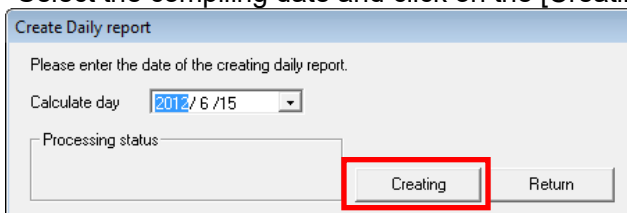
7.1 Daily Report

This item creates a daily report from the daily logging file of the specified date.

(1) In the Operating menu, click on the [Create report] - [Daily report] menu.

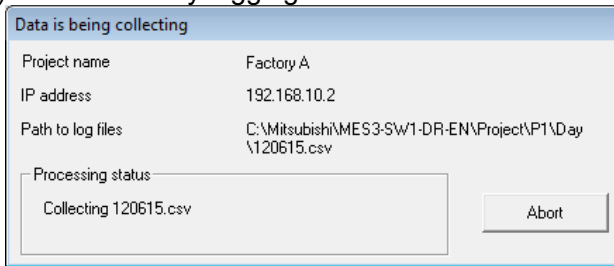


(2) The [Create Daily report] screen is displayed.
 Select the compiling date and click on the [Creating] button.



| Item | Details |
|---------------|---|
| Calculate day | Select (or enter directly) the date for the daily report to be created. The date of the future cannot be selected. |

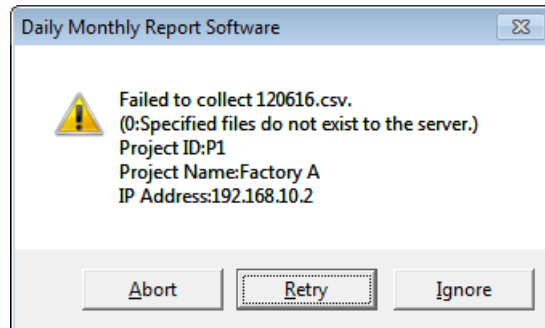
(3) The necessary logging files are collected automatically.



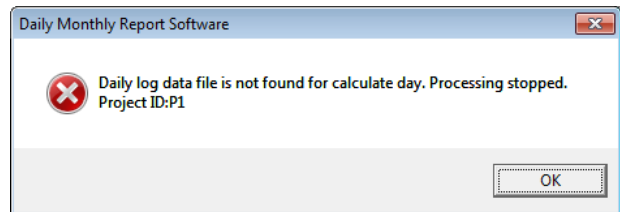
Caution

This processing may take several minutes. Do not perform any operation other than cancel while this message is being displayed. Depending on the operating system being used, the application may end abnormally.

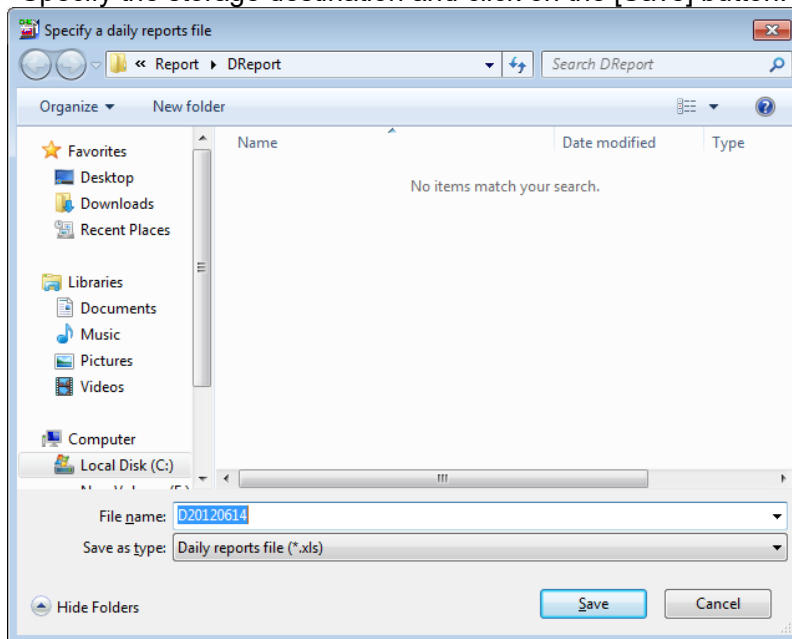
- * If there is no file of the specified date in the subsystem, the message as shown on the right will be displayed for each file.
If you know that the data does not exist in the subsystem, for example, because the power was cut off, click on the [Ignore] button and continue the data collection.



- * If the data for the specified date has not been collected, the message as shown on the right will be displayed. Select again the year, month, and day of which the data was created in the subsystem.

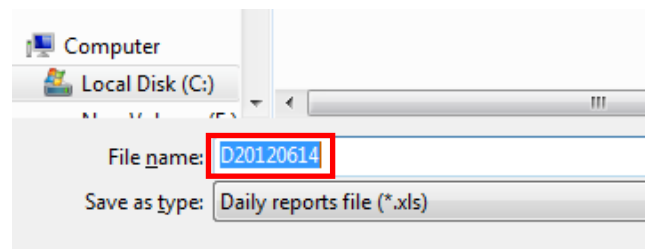


- (4) The [Specify a daily reports file] dialog is displayed.
Specify the storage destination and click on the [Save] button.



The default file name is "Dyyyyymmdd.xls." (yyyyymmdd is the compiling date.)
See "4.5 (1) Save path" for the default storage destination path.

- * **Do not change the file name.**
If the file name is changed, no extension (.xls) may be added to the saved file, and the file becomes unable to be opened. To change the name of the file, first save the file using this operation and then make the change in Explorer, etc.
If the check mark is removed for "Hide extensions for known file types" in Explorer, an extension is added to the file name and displayed as shown on the right. Do not delete this extension (.xls).



(5) The daily report is displayed in Excel format.

[Output example]

| | | Calculate date | | | | Title | | | | | | | | | | Creator | Reporter | Checker |
|-----------------|--------------|----------------|-----------|---------|--|-------|--|--|--|--|--|--|--|--|--|---------|----------|---------|
| | | Daily Report 1 | | | | | | | | | | | | | | | | |
| 2012.6/20 (Wed) | | Product | | | | Other | | | | | | | | | | ABC | | |
| Time | Product Line | Printer | Rest Room | Shop | | | | | | | | | | | | | | |
| | kWh | kWh | kWh | kWh | | | | | | | | | | | | | | |
| 1:00 | 13.0 | 0.0 | 0.0 | 995.9 | | | | | | | | | | | | | | |
| 2:00 | 10.0 | 0.0 | 0.0 | 999.9 | | | | | | | | | | | | | | |
| 3:00 | 9.0 | 0.0 | 0.0 | 3.8 | | | | | | | | | | | | | | |
| 4:00 | 7.0 | 0.0 | 0.0 | 999.4 | | | | | | | | | | | | | | |
| 5:00 | 7.0 | 0.0 | 0.0 | 0.7 | | | | | | | | | | | | | | |
| 6:00 | 8.0 | 0.0 | 0.0 | 995.4 | | | | | | | | | | | | | | |
| 7:00 | 8.0 | 0.0 | 0.0 | 4.7 | | | | | | | | | | | | | | |
| 8:00 | 10.0 | 0.0 | 0.0 | 997.0 | | | | | | | | | | | | | | |
| 9:00 | 37.0 | 3.0 | 11.0 | 4.8 | | | | | | | | | | | | | | |
| 10:00 | 96.0 | 1.0 | 2.0 | 997.3 | | | | | | | | | | | | | | |
| 11:00 | 94.0 | 0.0 | 99.0 | 3.4 | | | | | | | | | | | | | | |
| 12:00 | 90.0 | 6.0 | 89.0 | 995.8 | | | | | | | | | | | | | | |
| 13:00 | 51.0 | 11.0 | 35.0 | 0.7 | | | | | | | | | | | | | | |
| 14:00 | 82.0 | 0.0 | 3.0 | 1.8 | | | | | | | | | | | | | | |
| 15:00 | 95.0 | 3.0 | 6.0 | 0.7 | | | | | | | | | | | | | | |
| 16:00 | 134.0 | 18.0 | 57.0 | 0.2 | | | | | | | | | | | | | | |
| 17:00 | 132.0 | 5.0 | 18.0 | 1.1 | | | | | | | | | | | | | | |
| 18:00 | 118.0 | 5.0 | 18.0 | 996.3 | | | | | | | | | | | | | | |
| 19:00 | 108.0 | 81.0 | 999.0 | 1.6 | | | | | | | | | | | | | | |
| 20:00 | 91.0 | 2.0 | 9.0 | 999.1 | | | | | | | | | | | | | | |
| 21:00 | 88.0 | 3.0 | 7.0 | 998.0 | | | | | | | | | | | | | | |
| 22:00 | 72.0 | 80.0 | 997.0 | 1.6 | | | | | | | | | | | | | | |
| 23:00 | 92.0 | 99.0 | 95.0 | 998.9 | | | | | | | | | | | | | | |
| 0:00 | 23.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | | | | | | |
| Day Total | 1415.0 | 317.0 | 2325.0 | 10998.1 | | | | | | | | | | | | | | |
| Maximum | 194.0 | 99.0 | 999.0 | 999.9 | | | | | | | | | | | | | | |
| Minimum | 7.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | | | | | | |
| Average | 59.0 | 13.2 | 96.9 | 458.8 | | | | | | | | | | | | | | |

Group name
 Output item name
 Unit
 Measured value
 Day total
 Day maximum
 Day minimum
 Day average

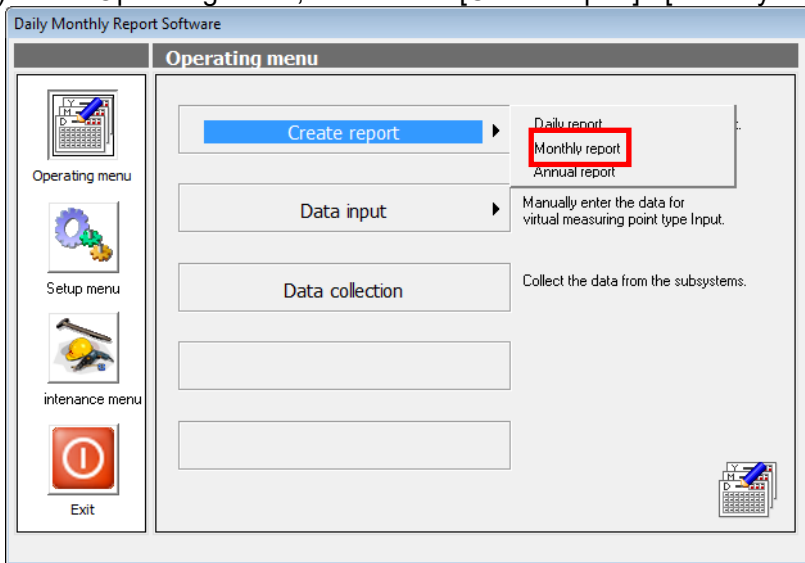
| Item | Details |
|------------------|---|
| Title | Outputs the page title. |
| Calculate date | Outputs the date and day of the week of the daily report. Format: "yyyy/mm/dd(day)" |
| Group name | Outputs the group name of the output item. |
| Output item name | Outputs the name of the output item. |
| Unit | Outputs the unit of the output item. |
| Measured value | Outputs the measured value (or the calculated value) in hourly unit. If there is no data of the specified time, this item becomes blank. Analog/power factor: Instantaneous value Pulse: Differential value per hour Status: ON=1/OFF=0 Virtual measuring point: Calculated from the above measuring point |
| Day total | Outputs the total value of the measured values that have been output. A "-" (hyphen) is output for analog, power factor, specific consumption, and status. For the virtual measuring point, the output settings are followed. This item becomes blank if no measuring point has been output. |
| Day maximum | Outputs the maximum value of the measured values that have been output. For the power factor, the measured value which gives the largest absolute value is output. A "-" (hyphen) is output for the status. This item becomes blank if no measuring point has been output. |
| Day minimum | Outputs the minimum value of the measured values that have been output. For the power factor, the measured value which gives the smallest absolute value is output. A "-" (hyphen) is output for the status. This item becomes blank if no measuring point has been output. |
| Day average | Outputs the average value of the measured values that have been output. A "-" (hyphen) is output for the power factor. A "-" (hyphen) is output for the status. This item becomes blank if no measuring point has been output. |

7.2 Monthly Report

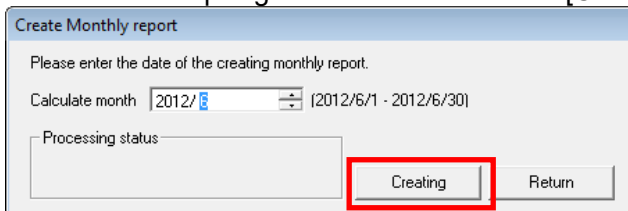
This item creates a monthly report from the daily logging file of the specified year and month.

- * If the output item is virtual measuring point for entry and the daily data is not entered, the monthly report is created based on the entered monthly data.
- * When the monthly report is created, a monthly report CSV file is created and saved to the monthly report CSV file storage destination specified for each subsystem. The monthly report CSV files are deleted in order from the files that have exceeded their storage period.

(1) In the Operating menu, click on the [Create report] - [Monthly report] menu.

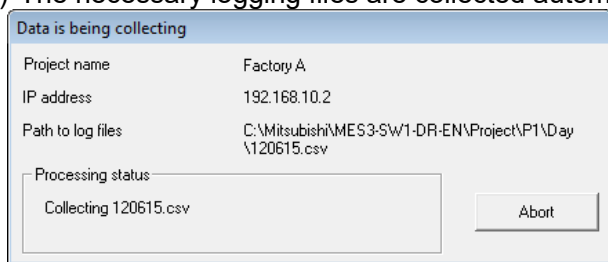


(2) The [Create Monthly report] screen is displayed. Select the compiling month and click on the [Creating] button.



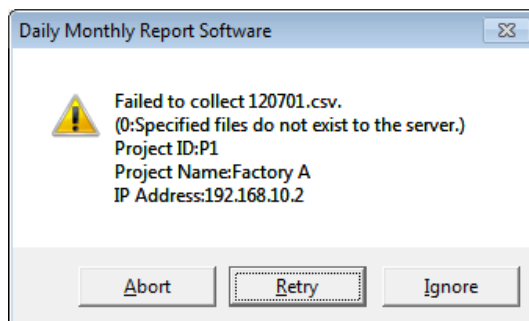
| Item | Details |
|-----------------|--|
| Calculate month | Select (or enter directly) the year and month for the monthly report to be created. The year and month of the future cannot be selected. |

(3) The necessary logging files are collected automatically.

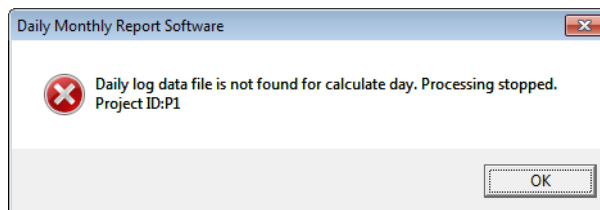


Caution
This processing may take several minutes. Do not perform any operation other than cancel while this message is being displayed.
Depending on the operating system being used, the application may end abnormally.

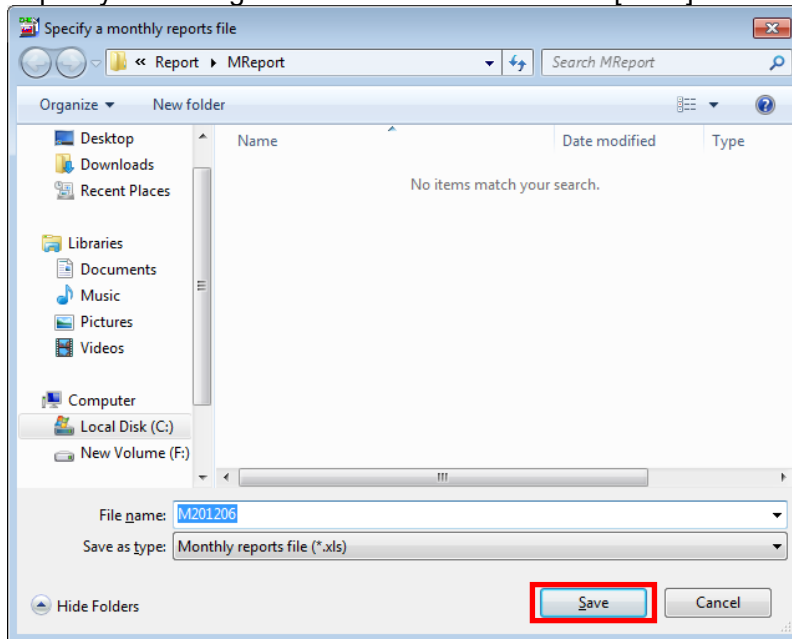
* If there is no file of the specified date in the subsystem, the message as shown on the right will be displayed for each file.
 If you know that the data does not exist in the subsystem, for example, because the power was cut off, click on the [Ignore] button and continue the data collection.



* If the data for the specified date has not been collected, the message as shown on the right will be displayed. Select again the year, month of which the data was created in the subsystem.

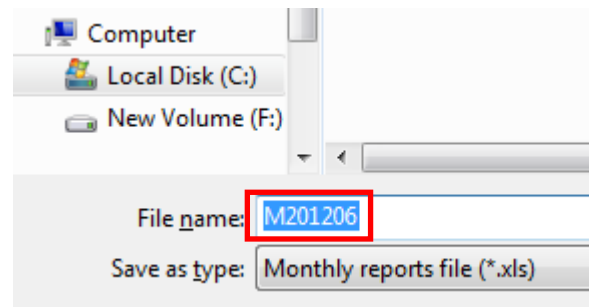


- (4) The [Specify a monthly reports file] dialog is displayed.
Specify the storage destination and click on the [Save] button.



The default file name is "Myyyyymm.xls." (yyyyymm is the Calculate date.)
See "4.5 (1) Save path" for the default storage destination path.

- * **Do not change the file name.**
If the file name is changed, no extension (.xls) may be added to the saved file, and the file becomes unable to be opened. To change the name of the file, first save the file using this operation and then make the change in Explorer, etc.
- If the check mark is removed for "Hide extensions for known file types" in Explorer, an extension is added to the file name and displayed as shown on the right.
- Do not delete this extension (.xls).



(5) The monthly report is displayed in Excel format.

[Output example]

| | | Creator | Reporter | Checker |
|-------------|--------------|---------|----------|---------|
| 2012/6 | | ABC | | |
| | Electric | | | |
| Date | Energy total | | | |
| | V | | | |
| 1 | 6538.8 | | | |
| 2 | 6569.6 | | | |
| 3 | 6564.6 | | | |
| 4 | 6528.8 | | | |
| 5 | 6515.0 | | | |
| 6 | 6548.3 | | | |
| 7 | 6512.9 | | | |
| 8 | 6548.3 | | | |
| 9 | 6562.1 | | | |
| 10 | 6564.6 | | | |
| 11 | 6522.9 | | | |
| 12 | 6523.3 | | | |
| 13 | 6530.4 | | | |
| 14 | 6523.8 | | | |
| 15 | 6522.1 | | | |
| 16 | 6565.4 | | | |
| 17 | 6546.4 | | | |
| 18 | 6525.4 | | | |
| 19 | 6536.7 | | | |
| 20 | 6523.1 | | | |
| 21 | 6522.9 | | | |
| 22 | 6523.3 | | | |
| 23 | 6530.4 | | | |
| 24 | 6523.8 | | | |
| 25 | 6522.1 | | | |
| 26 | 6565.4 | | | |
| 27 | 6546.4 | | | |
| 28 | 6522.1 | | | |
| 29 | 6565.4 | | | |
| 30 | 6546.4 | | | |
| Month Total | - | | | |
| Maximum | 6565.4 | | | |
| Minimum | 6512.9 | | | |
| Average | 6537.5 | | | |

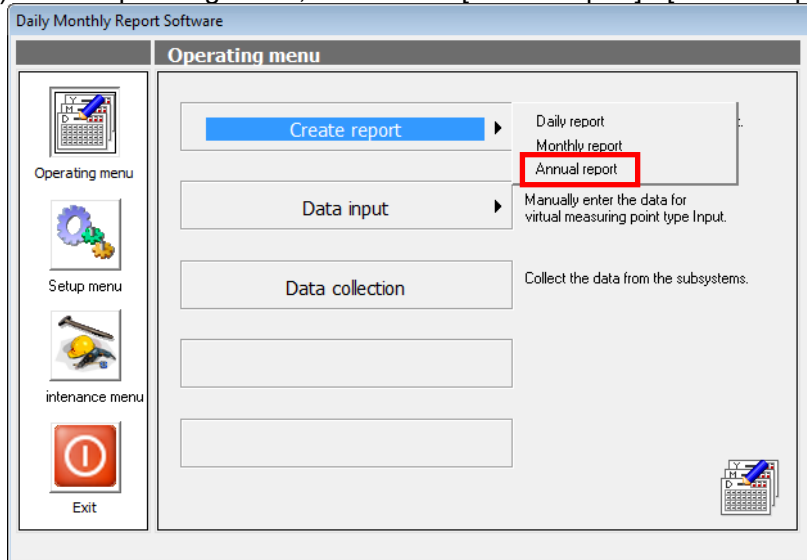
| Item | Details |
|------------------|--|
| Title | Outputs the page title. |
| Calculate month | Outputs the month of the monthly report. Format: "yyyy/mm" |
| Group name | Outputs the group name of the output item. |
| Output item name | Outputs the name of the output item. |
| Unit | Outputs the unit of the output item. |
| Measured value | Outputs the measured value (or the calculated value) in daily unit. A "-" (hyphen) is output for the status. If there is no data of the specified time, this item becomes blank. Analog: Any of the daily average, daily maximum, or daily minimum Pulse: Differential value per day Power factor: Either of the daily maximum or daily minimum Virtual measuring point: Calculated from the above measuring point |
| Month total | Outputs the total value of the measured values that have been output. A "-" (hyphen) is output when this item is not output or when the analog, power factor, specific consumption, or status is set. For the virtual measuring point, the output settings are followed. This item becomes blank if no measuring point has been output. |
| Month maximum | Outputs the maximum value of the measured values that have been output. For the power factor, the measured value which gives the largest absolute value is output. This item becomes blank if no measuring point is output or if the status is set. |
| Month minimum | Outputs the minimum value of the measured values that have been output. For the power factor, the measured value which gives the smallest absolute value is output. This item becomes blank if no measuring point is output or if the status is set. |
| Month average | Outputs the average value for the measured values which have been output. A "-" (hyphen) is output for the power factor. This item becomes blank if no measuring point is output or if the status is set. |

7.3 Annual Report

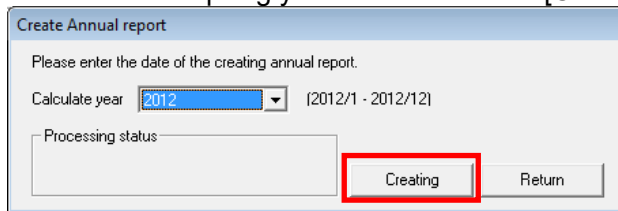
This item creates an annual report from the monthly CSV file of the specified year.

* The month of which the monthly report has not been created is not output to the annual report.

(1) In the Operating menu, click on the [Create report] - [Annual report] menu.



(2) The [Create Annual report] screen is displayed. Select the compiling year and click on the [Creating] button.

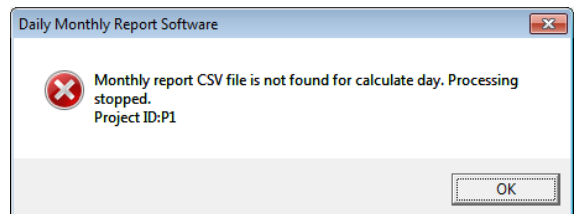


| Item | Details |
|----------------|--|
| Calculate year | Select (or enter directly) the year for the annual report to be created. |

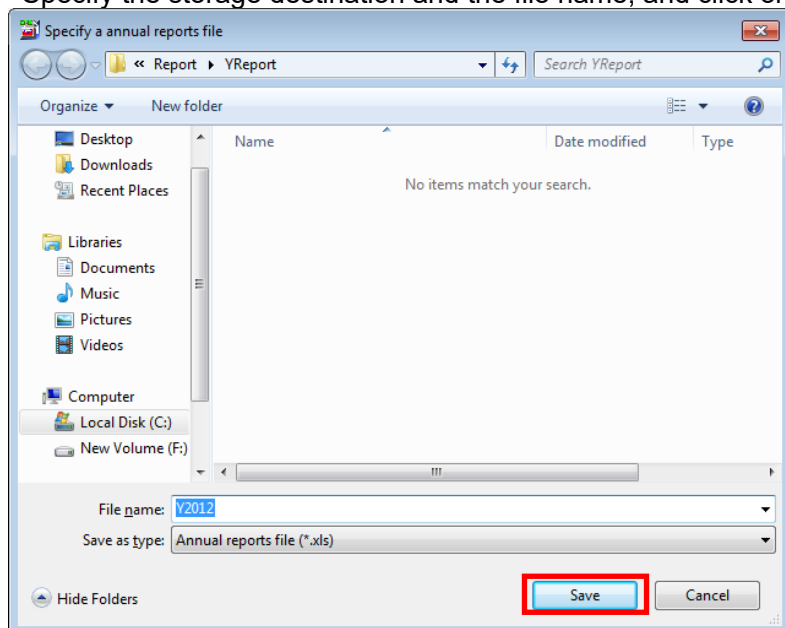
Caution

This processing may take several minutes. Do not perform any operation other than cancel while this message is being displayed. Depending on the operating system being used, the application may end abnormally.

* If there is no monthly report CSV file of the specified year and month, the message as shown on the right will be displayed. Create the monthly report corresponding to the year for making the annual report, and then perform the procedure again.

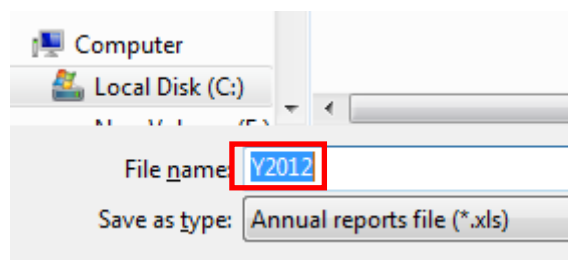


- (3) The [Specify a annual reports file] dialog is displayed.
Specify the storage destination and the file name, and click on the [Save] button.



The default file name is “Yyyyy.xls.” (yyyy is the calculate year.)
See “4.5 (1) Save path” for the default storage destination path.

- * **Do not change the file name.**
If the file name is changed, no extension (.xls) may be added to the saved file, and the file becomes unable to be opened. To change the name of the file, first save the file using this operation and then make the change in Explorer, etc.
If the check mark is removed for “Hide extensions for known file types” in Explorer, an extension is added to the file name and displayed as shown on the right.
Do not delete this extension (.xls).



(4) The annual report is displayed in Excel format.

[Output example]

Calculate year

Title

Annual Rport 1

| 2012 | | ABC | | | | | | | | | | Creator | Reporter | Checker |
|------------|--------------|-----|--|--|--|--|--|--|--|--|--|---------|----------|---------|
| Month | Electric | | | | | | | | | | | | | |
| | Energy total | | | | | | | | | | | | | |
| | v | | | | | | | | | | | | | |
| 1 | 6559.6 | | | | | | | | | | | | | |
| 2 | 6564.6 | | | | | | | | | | | | | |
| 3 | 6520.8 | | | | | | | | | | | | | |
| 4 | 6515.0 | | | | | | | | | | | | | |
| 5 | 6546.3 | | | | | | | | | | | | | |
| 6 | 6559.6 | | | | | | | | | | | | | |
| 7 | 6564.6 | | | | | | | | | | | | | |
| 8 | 6520.8 | | | | | | | | | | | | | |
| 9 | 6515.0 | | | | | | | | | | | | | |
| 10 | 6546.3 | | | | | | | | | | | | | |
| 11 | 6512.9 | | | | | | | | | | | | | |
| 12 | 6548.3 | | | | | | | | | | | | | |
| Year Total | - | | | | | | | | | | | | | |
| Maximum | 6564.6 | | | | | | | | | | | | | |
| Minimum | 6512.9 | | | | | | | | | | | | | |
| Average | 6540.8 | | | | | | | | | | | | | |

Group name

Output item name

Unit

Measured value

Year total

Year maximum

Year minimum

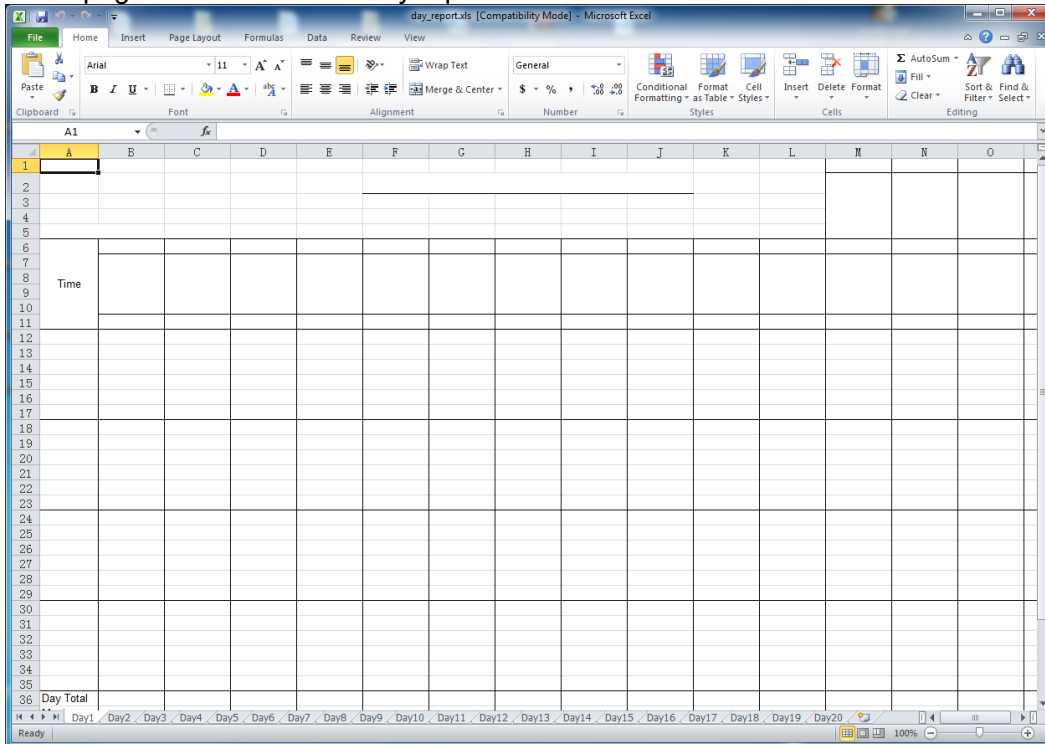
Year average

| Item | Details |
|------------------|--|
| Title | Outputs the page title. |
| Calculate year | Outputs the year of the annual report. Format: "yyyy" |
| Group name | Outputs the group name of the output item. |
| Output item name | Outputs the name of the output item. |
| Unit | Outputs the unit of the output item. |
| Measured value | Outputs the measured value (or the calculated value) in monthly unit. A "-" (hyphen) is output for the status. If there is no data of the specified month or if the status is set, this item becomes blank. Analog: Any of the monthly average, monthly maximum, or monthly minimum Pulse: Monthly total per month Power factor: Either of the monthly maximum or minimum Virtual measuring point: Calculated from the above measuring point |
| Year total | Outputs the total value of the measured values that have been output. A "-" (hyphen) is output when this item is not output or when the analog, power factor, specific consumption, or status is set. For the virtual measuring point, the output settings are followed. This item becomes blank if no measuring point has been output. |
| Year maximum | Outputs the maximum value of the measured values that have been output. For the power factor, the measured value which gives the largest absolute value is output. This item becomes blank if no measuring point is output or if the status is set. |
| Year minimum | Outputs the minimum value of the measured values that have been output. For the power factor, the measured value which gives the smallest absolute value is output. This item becomes blank if no measuring point is output or if the status is set. |
| Year average | Outputs the average value of the measured values which have been output. A "-" (hyphen) is output for the power factor. This item becomes blank if no measuring point is output or if the status is set. |

7.4 Customizing the report

The daily, monthly, and annual reports are created based on the master file in Excel book format. You can customize each report by adding your original sheet to the master file.

The master file for each report is stored in the “C:\Mitsubishi\MES3-SW1-DR-EN\Master\” folder (when this software is installed at the default installation destination). The master file includes the master sheet for pasting the data. For example, in “day_report.xls,” there are master sheets from “Day1” to “Day150” which correspond to the pages 1 to 150 of the daily report.



The following table shows the master file name and master sheet name of each report.

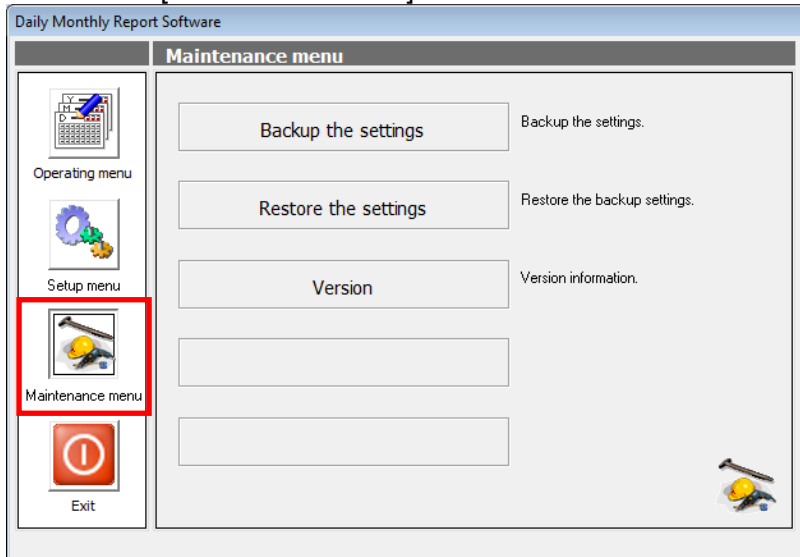
| Report | Master file name | Master sheet name |
|----------------|------------------|-------------------|
| Daily report | day_report.xls | Day1 – Day150 |
| Monthly report | month_report.xls | Month1 – Month150 |
| Annual report | year_report.xls | Year1 – Year150 |

To add an original sheet, insert a sheet at any position using Excel. Note the following:

- * Do not delete the master sheet or change the sheet name.
- * Do not change the sheet name or contents of the master sheet.
- * When using Excel 2007 or 2010 or 2013 or 2016, do not change the file type (Excel 97-2003 book (*.xls)).

CHAPTER 8 MAINTENANCE FUNCTION

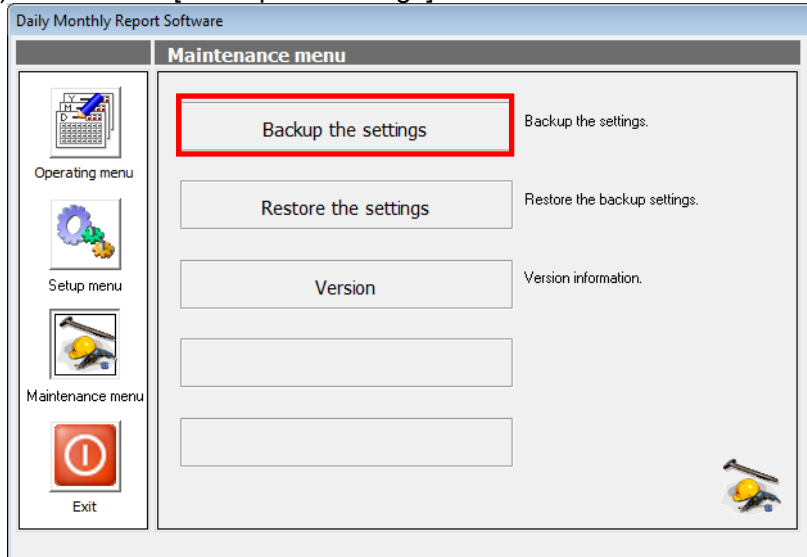
This chapter explains the maintenance of the setting data created with this software.
Click on the [Maintenance menu] button in the main menu screen to enter the maintenance mode.



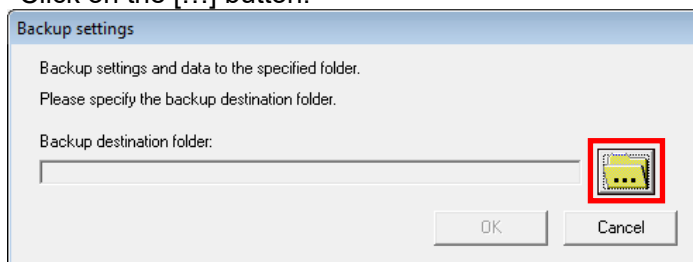
8.1 Making backup of the settings

This item backs up the created setting value.
Before making backup, close the created report.

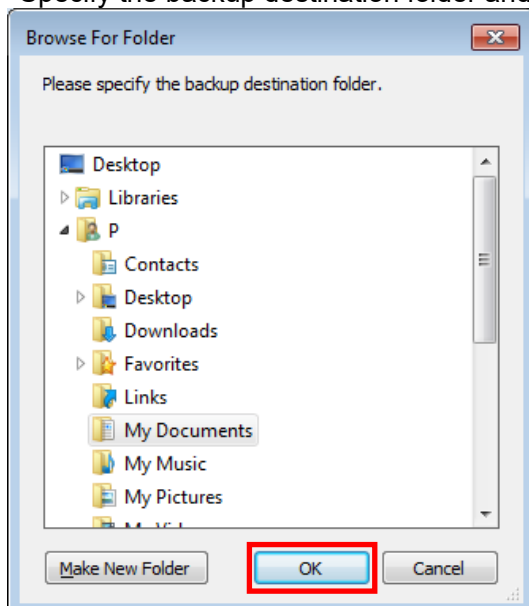
(1) Click on the [Backup the settings] menu in the Maintenance menu.



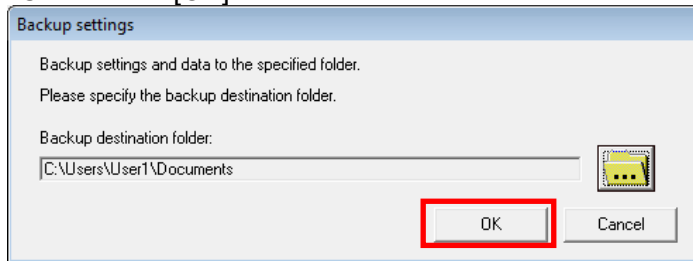
(2) The [Backup settings] screen is displayed.
Click on the [...] button.



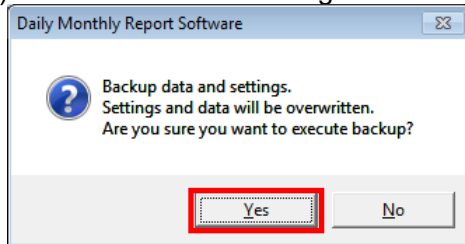
(3) The [Browse For Folder] dialog is displayed.
Specify the backup destination folder and then click on the [OK] button.



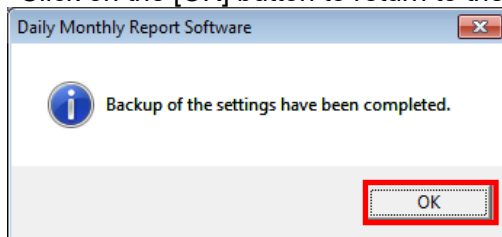
- (4) The specified folder is shown in the [Backup settings] screen.
Click on the [OK] button.



- (5) The confirmation message will be displayed. Click on the [Yes] button.



- (6) When the backup is completed, the message shown below will be displayed.
Click on the [OK] button to return to the maintenance menu.



8.2 Restoring the settings

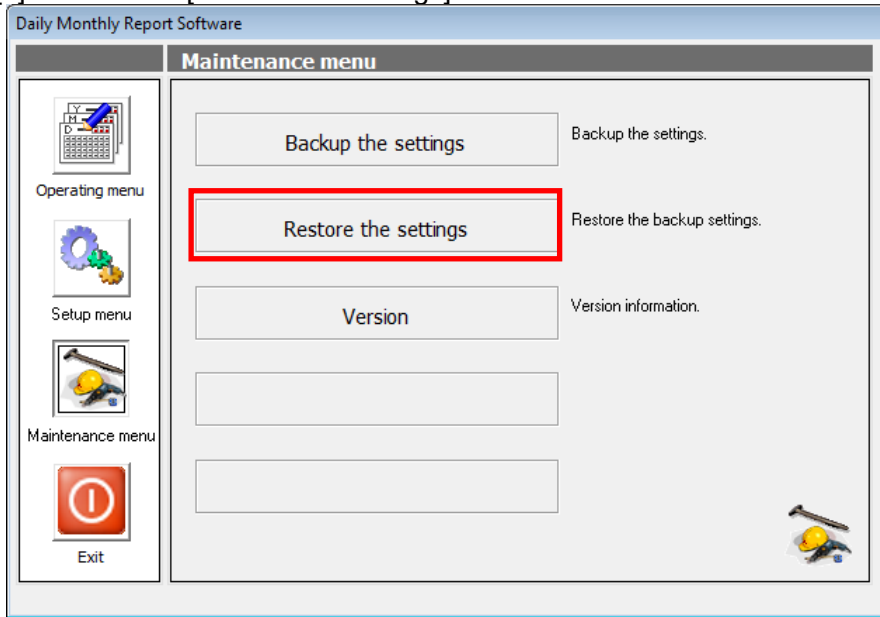
This item restores the backup setting.
 You can restore the setting value also from the older versions.
 Before restoring the setting, close the created report.

| | |
|---------------------|--|
| Data to be restored | <ul style="list-style-type: none"> • Subsystem setting • Virtual measuring point setting • Specific consumption setting • Report setting • System setting • Backup data collected from the subsystem • The data from the storage destination path which was set in the system setting (Daily reports, monthly reports, annual reports files)*¹ • Master sheet |
|---------------------|--|

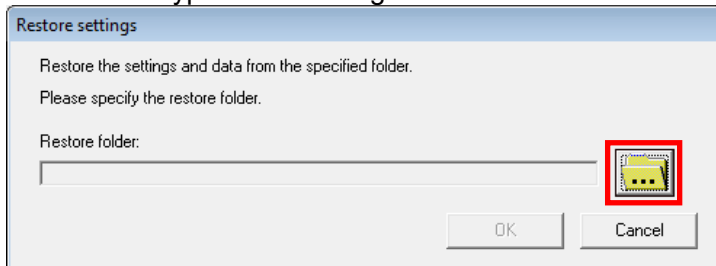
*1: Data is restored to the storage destination path which was set in the system setting at the time of the backup. To check the folder that has been restored, see the storage destination path in the system setting.

8.2.1 How to restore the settings

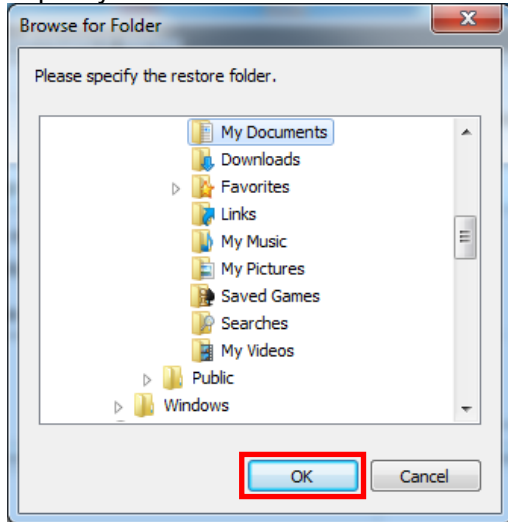
[1] Click on the [Restore the settings] menu in the Maintenance menu.



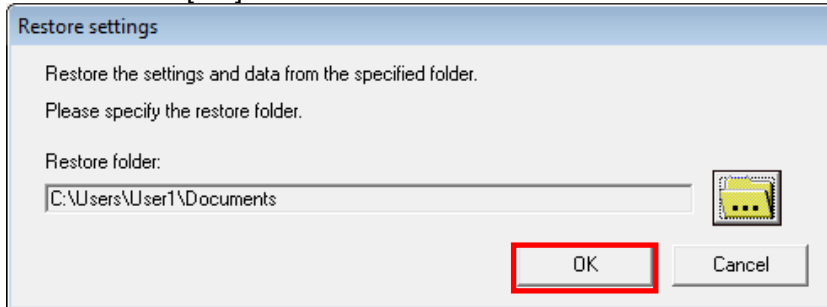
[2] The [Restore settings] screen is displayed.
 Select the type of the setting value to restore and click on the [...] button.



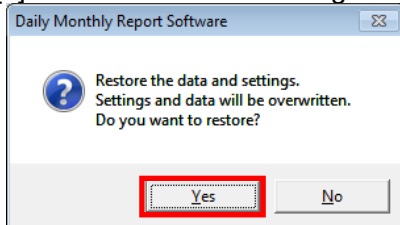
- [3] The [Browse for Folder] dialog is displayed.
Specify the restore source folder and click on the [OK] button.



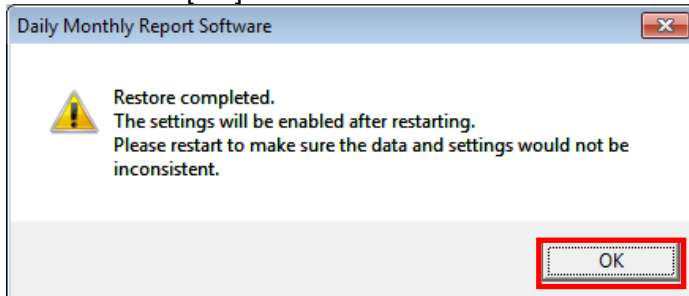
- [4] The specified folder is shown in the [Restore settings] screen.
Click on the [OK] button.



- [5] The confirmation message will be displayed. Click on the [Yes] button.



- [6] When the restore is completed, the message shown below will be displayed.
Click on the [OK] button to return to the maintenance menu.



- [7] Close the software and then restart it again.

8.2.2 How to restore a customized master file with EcoMeasureIII

Please follow the steps below to create EcoMeasureIII standard master using the custom Excel master file.

* The steps below are not necessary from EcoMeasureIII (Ver1.1.0).

| | |
|-------|--|
| Step1 | <p>Change the name of master file Change the name of master file. (Example: change the name "day_report.xls" to "day_report_backup.xls".)</p> |
|-------|--|



| | |
|-------|---|
| Step2 | <p>Copy master file in use Copy the customized master file under the master folder* in EcoMeasureIII's install folder. Please do not change the name. (*default: C:\Mitsubishi\MES3-SW1-DR-CN\master)</p> |
|-------|---|

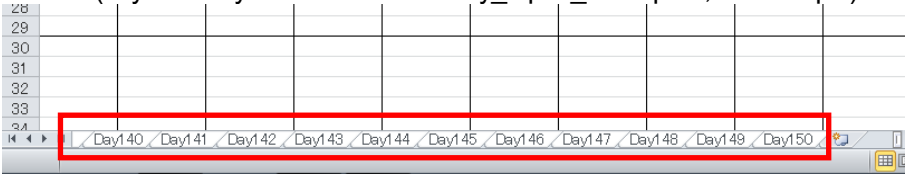


| | |
|-------|---|
| Step3 | <p>Confirm the master file Please confirm the sheet name is not used as below. If the sheet name is used please change the sheet name. Day report master file : Day***(*: 21 to 150) Month report master file : Month***(*: 21 to 150) Year report master file : Year*** (*: 21 to 150)</p> |
|-------|---|



| | |
|-------|--|
| Step4 | <p>Open the old and new master files (a)Open the master file changed in Step1. (b)Open the customized file (Example: day_report_bakup.xls) copied in step2.</p> |
|-------|--|

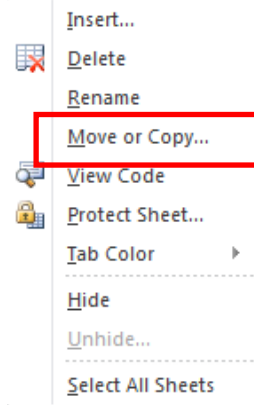


| | |
|-------|---|
| Step5 | <p>Copy customized sheet (a)Display the master file whose name was changed in step 1 and select the 21st to 150th sheets (day21 to day150 in the case of day_report_backup.xls, for example) collectively.</p>  <p style="text-align: right;">(Continue in the next page)</p> |
|-------|---|

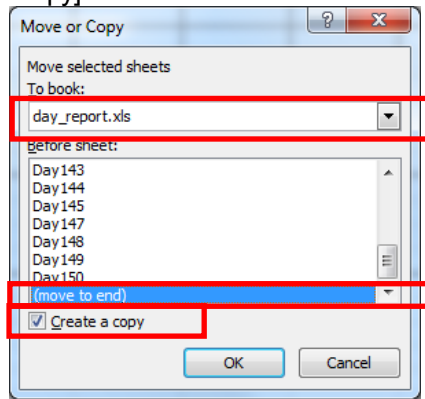
Step5

(From the previous page)

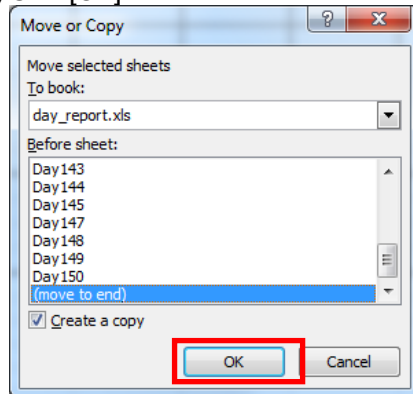
(b) Select [Move or Copy...] in right-click menu on the tab of the selected sheet .



(c) The screen below will be displayed, and select the book name in destination master file (master file). Please select (move to the end) insertion destination and check [Create a copy].



(d) Click [OK] button.

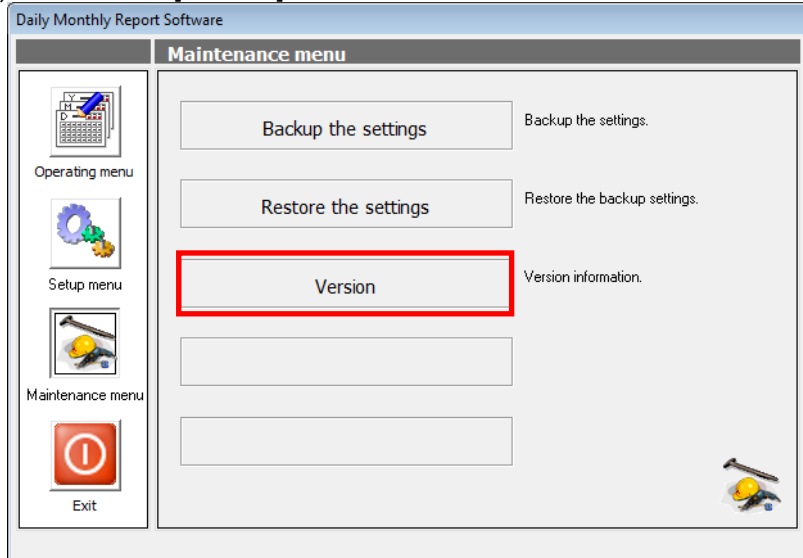


(Continue in the next page)

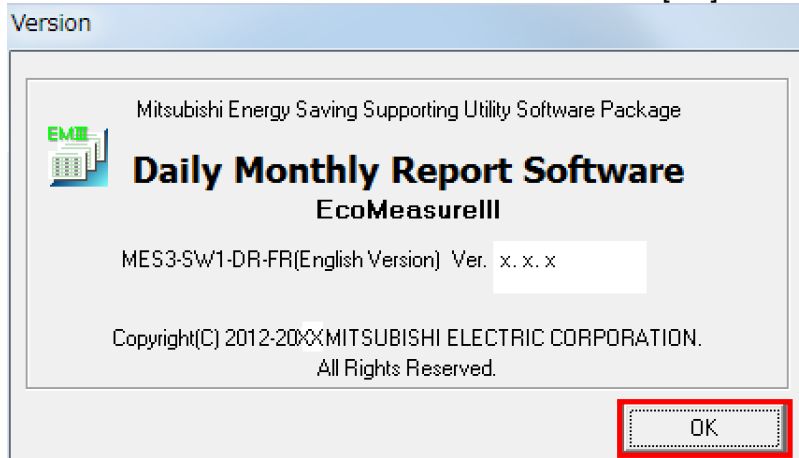
8.3 Version

This item checks the version of this software.

- (1) Click on the [Version] menu in the Maintenance menu.



- (2) The [Version] screen is displayed.
Check the version information and then click on the [OK] button to close the screen.



CHAPTER 9 APPENDICES

Troubleshooting

The following explains the method for dealing with any abnormalities or problems that may arise when using this software.

If any abnormalities occur or messages are displayed during the operation of the OS or any other applications, refer to the manuals supplied with the respective applications.

| Item | Error message/symptom | Point to check |
|---|---|---|
| Setting | Can not connect to the subsystem. | Check that the power of the subsystem is turned on. |
| | | Check that the LAN cable is connected correctly. |
| | | Check that the IP address is set correctly. |
| | | Check that the network setting of the computer is set correctly. |
| | | Check that the communications are not being blocked by a firewall, antivirus software, or similar programs. |
| | Can not update because the measuring point P*K*** in the following places is already removed. | Check that the measuring point which corresponds to the registered measuring point ID in the project has not been deleted from the measuring point of the relevant subsystem. |
| | The contents of the measuring point information settings file is invalid. | Check that the specified configuration file of the measuring point information is correct. |
| | Measuring point of the project can not be deleted because it is used in the following places. | Check that no measuring point included in the project to be deleted is used in the virtual measuring point, specific consumption, or report, etc. |
| | Virtual measuring point can not be deleted because it is being used in the following places. | Check that the virtual measuring point to be deleted is not used in the virtual measuring point group, specific consumption, or report, etc. |
| Virtual measuring point group can not be deleted because it is being used in the following places. | Check that the virtual measuring point group to be deleted is not used in the specific consumption or report, etc. | |
| Specific consumption measuring point can not be deleted because it is being used in the following places. | Check that the specific consumption to be deleted is not used in the report. | |
| Arithmetic expression is invalid. | Check that an invalid arithmetic expression (such as an inconsistency in parentheses and division by 0) has not been entered. | |

| Item | Error message/symptom | Point to check |
|--|--|--|
| Data collection | Can not connect to the subsystem. | Check that the power of the subsystem is turned on. |
| | | Check that the LAN cable is connected correctly. |
| | | Check that the IP address is set correctly. |
| | | Check that the network setting of the computer is set correctly. |
| | | Check that the communications are not being blocked by a firewall, antivirus software, or similar programs. |
| | Check whether the measuring point list has been registered in the project registration in the subsystem setting. If it is not registered, update the measuring point information. | |
| Collecting - Communication Error (**** indicates a file name.) | Check that the LAN cable is connected. | |
| | Check that the power of the subsystem is turned on. | |
| Failed to collect (**** indicates a file name.) | Check whether the relevant logging file exists in the main body of the subsystem. Refer to the user manual of the subsystem for the checking procedure. | |
| Report creation | Daily log data file is not found for calculate day. Processing stopped. | Check whether the relevant daily logging file exists in the main body of the subsystem. Refer to the user manual of the subsystem for the checking procedure. |
| | | Check whether the relevant daily logging file exists at the storage destination path. Refer to "4.5 (1) Save path" for information on the storage destination path. |
| | | Collect the data and then create the report again. |
| | Can not continue because Excel is not installed. | Check whether Excel is installed on the computer being used. Excel purchased and downloaded at Microsoft Store can not be used. Please use packaged version. |
| Data loss occurred on the way in the created form data. | It is possible that there is a temporary file in your PC. Please try again as the following procedure. 1. Select Internet Options from Internet Explorer. 2. Select the "General" tab of "Internet Options" and the "Delete" button in the browsing history. 3. Clear the check mark of "Keep my favorite Web site data" and press the "Delete" button. 4. On the "Advanced Settings" tab, mark the check box "Clear the Temporary Internet Files folder" when closing the browser and click the "Apply" button → "OK" button. | |
| Data storage | Not enough free disk space. | Check the free space of the disk at the storage destination. |
| | Can not find the path specified. | Check whether the storage destination path is correct. Refer to "4.5 (1) Save path" for information on the storage destination path. |
| | Failed to create a CSV file. | Check that the relevant CSV file to be overwritten is not opened. |
| | Failed to save the report. Processing stopped. | Check that the Excel file of the relevant report to be overwritten is not opened. |

| Item | Error message/symptom | Point to check |
|--------------|--|--|
| Hardware key | Error 1009: Cannot open HASP HL drivers | <p>The device driver for the hardware key has not been installed. Refer to "2.2.2 Installing the device driver for the hardware key" and install the device driver.</p> <p>If the hardware key is displayed correctly in the Device Manager, repeat the installation of the device driver again.</p> |
| | Error 7: HASP HL Key not found. | The hardware key is not connected. Connect the hardware key. |
| Others | System can not boot because of an error in the following places. Connection: File 'C:\Mitsubishi\MES3-SW1-DR-EN\bumdr.mdb' could not be opened. Another user has opened it exclusively or you have no authority to read the data. | Check the user's authority. If the user does not have an administrator authority, log in as a user having an administrator authority to use the software. |
| | System can not boot because of an error in the following places. | Set the system clock on the computer to the date after April 1, 2004. |
| | For date is abnormal, the system can not boot. | Change the Windows firewall settings in the operating system to allow communications with the "Daily Monthly Report Software." |

Daily Monthly Report Software EcoMeasureIII

Service Network

| Country/Region | Corporation Name | Address | Telephone |
|-------------------------------------|---|--|---|
| Australia | Mitsubishi Electric Australia Pty. Ltd. | 348 Victoria Road, Rydalmere, N.S.W. 2116, Australia | +61-2-9684-7777 |
| Algeria | Mec Casa | Rue i N 125 Hay-Es-Salem, 02000, W-Chief, Algeria | +213-27798069 |
| Bangladesh | PROGRESSIVE TRADING CORPORATION | HAQUE TOWER, 2ND FLOOR, 610/11, JUBILEE ROAD, CHITTAGONG, BANGLADESH | +880-31-624307 |
| | ELECTRO MECH AUTOMATION & ENGINEERING LTD. | SHATABDI CENTER, 12TH FLOOR, SUITES-12-B, 292, INNER CIRCULAR ROAD, FAKIRA POOL, MOTIJHEEL, DHAKA-1000, BANGLADESH | +88-02-7192826 |
| Belarus | Tehnikon | Oktyabrskaya 19, Off. 705, BY-220030 Minsk, Belarus | +375 (0)17 / 210 46 26 |
| Belgium | Koning & Hartman B.V. | Woluwelaan 31, BE-1800 Vilvoorde, Belgium | +32 (0)2 / 2570240 |
| Brazil | Mitsubishi Electric do Brasil Comércio e Serviços Ltda. | Avenida Adelino Cardana, 293 - 21º Andar, Bethaville, Barueri, SP, Brasil, CEP 06401-147 | +55-11-4689-3000 |
| Cambodia | DHINIMEX CO.,LTD | #245, St. Tep Phan, Phnom Penh, Cambodia | +855-23-997-725 |
| Central America | Automation International LLC | 7050 W. Palmetto Park Road Suite #15 PMB #555, Boca Raton, FL 33433 | +1-561-237-5228 |
| Chile | Rhona S.A. (Main office) | Vte. Agua Santa 4211 Casilla 30-D (P.O. Box) Vina del Mar, Chile | +56-32-2-320-600 |
| | Mitsubishi Electric Automation (China) Ltd. | Mitsubishi Electric Automation Building, No.1386 Hongqiao Road, Shanghai, China 200336 | +86-21-2322-3030 |
| | Mitsubishi Electric Automation (China) Ltd. Beijing | 5/F, ONE INDIGO, 20 Jiuxianqiao Road Chaoyang District, Beijing, China 100016 | +86-10-6518-8830 |
| | Mitsubishi Electric Automation (China) Ltd. ShenZhen | Level 8, Galaxy World Tower B, 1 Yabao Road, Longgang District, Shenzhen, China 518129 | +86-755-2399-8272 |
| | Mitsubishi Electric Automation (China) Ltd. GuangZhou | Rm.1006, A1 Times E-Park, No.276-282, Hanxi Road East, Zhongcun Street, Panyu Distric, Guangzhou, China 510030 | +86-20-8923-6730 |
| | Mitsubishi Electric Automation (China) Ltd. ChengDu | 1501-1503, 15F, Guang-hua Centre Building-C, No.98 North Guang Hua 3th Rd Chengdu, China 610000 | +86-28-8446-8030 |
| | Mitsubishi Electric Automation (Hong Kong) Ltd. | 20/F., Cityplaza One, 1111 King's Road, Taikoo shing, Hong Kong | +852-2510-0555 |
| Colombia | Proelectrico Representaciones S.A. | Carrera 42 N° 75 - 367 Bodega 109, Itagüí, Medellín, Antioquia, Colombia | +57-4-4441284 |
| Czech Republic | AUTOCONT CONTROL SYSTEMS S.R.O | Technologická 374/6, CZ-708 00 Ostrava - Pustkovec | +420 595 691 150 |
| Denmark | BEIJER ELECTRONICS A/S | LYKKEGARDSVEJ 17, DK-4000 ROSKILDE, Denmark | +45 (0)46/75 76 66 |
| Egypt | Cairo Electrical Group | 9, Rostoum St. Garden City P.O. Box 165-11516 Maglis El-Shaab, Cairo - Egypt | +20-2-27961337 |
| France | Mitsubishi Electric Europe B.V. French Branch | FR-92741 Nanterre Cedex | +33 (0)1 55 68 57 01 |
| Germany | Mitsubishi Electric Europe B.V. | Mitsubishi-Electric-Platz 1, 40882 Ratingen, Germany | +49 (0) 2102 4860 |
| Greece | KALAMARAKIS - SAPOUNAS S.A. | IONIAS & NEROMILOU STR., CHAMOMILOS ACHARNES, ATHENS, 13678 Greece | +30-2102 406000 |
| | UTECO | 5, MAVROGENOUS STR., 18542 PIRAEUS, Greece | +30-211-1206-900 |
| Hungary | Meltrade Ltd. | Fertő utca 14, HU-1107 Budapest, Hungary | +36 (0)1-431-9726 |
| | Mitsubishi Electric India Private Limited | 2nd Floor, Tower A&B, Cyber Greens, DLF Cyber City, DLF Phase-III, Gurgaon - 122 022 Haryana, India | +91-124-4630300 |
| | Mitsubishi Electric India Private Limited Pune Sales Office | ICC-Devi Gaurav Technology Park, Unit no. 402, Fourth Floor, Survey no. 191-192 (P), Opp. Vallabh Nagar Bus Depot, Pune - 411018, Maharashtra, India | +91-20-68192100 |
| | Mitsubishi Electric India Private Limited FA Center | 204-209, 2nd Floor, 31FIVE, Corporate Road, Prahladnagar, Ahmedabad 380015, Gujarat, India | +91-79677-77888 |
| Indonesia | PT.Mitsubishi Electric Indonesia | Gedung Jaya 8th floor, J.L.MH. Thamrin No.12 Jakarta Pusat 10340, Indonesia | +62-21-3192-6461 |
| | P.T. Sahabat Indonesia | P.O.Box 5045 Kawasan Industri Perogudangan, Jakarta, Indonesia | +62-(0)21-6610651-9 |
| Ireland | Mitsubishi Electric Europe B.V. | Westgate Business Park, Ballymount, IRL-Dublin 24, Ireland | +353 (0)1-4198800 |
| Israel | Gino Industries Ltd. | 26, Ophir Street IL-32235 Haifa, Israel | +972 (0)4-867-0656 |
| Italy | Mitsubishi Electric Europe B.V. | Viale Colleoni 7, I-20041 Agrate Brianza (MI), Italy | +39 039-60531 |
| Kazakhstan | Kazpromavtomatika | Ul. Zhambyla 28, KAZ - 100017 Karaganda | +7-7212-501000 |
| Korea | Mitsubishi Electric Automation Korea Co., Ltd | 9F Gangseo Hangang xi-tower A, 401 Yangcheon-ro, Gangseo-gu, Seoul 07528 Korea | +82-2-3660-9573 |
| Laos | AROUNKIT CORPORATION IMPORT-EXPORT SOLE CO.,LTD | SAPHANMO VILLAGE. SAYSETHA DISTRICT, VIENTIANE CAPITAL, LAOS | +856-20-415899 |
| Lebanon | Comptoir d'Electricite Generale-Liban | Cebaco Center - Block A Autostrade Dora, P.O. Box 11-2597 Beirut - Lebanon | +961-1-240445 |
| Lithuania | Rifas UAB | Tinklu 29A, LT-5300 Panevezys, Lithuania | +370 (0)45-582-728 |
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| | Flexible Automation System Sdn Bhd | 60, Jalan USJ 10/1B, UEP Subang Jaya 47620 Selangor Darul Ehsan, Malaysia | +603-5633-1280 |
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| Maroco | SCHIELE MAROC | KM 7.2 NOUVELLE ROUTE DE RABAT AIN SEBAA, 20600 Casablanca, Maroco | +212 661 45 15 96 |
| Myanmar | Peace Myanmar Electric Co.,Ltd. | NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar | +95-(0)1-202589 |
| Nepal | Wat&Volt House | KHA 2-65, Volt House Dillibazar Post Box:2108, Kathmandu, Nepal | +977-1-4411330 |
| Netherlands | Imtech Marine & Offshore B.V. | Sluissedijk 155, NL-3087 AG Rotterdam, Netherlands | +31 (0)10-487-19 11 |
| North America | Mitsubishi Electric Automation, Inc. | 500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA | +847-478-2100 |
| Norway | Scanelec AS | Leirvikasen 43B, NO-5179 Godvik, Norway | +47 (0)55-506000 |
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| Middle East Arab Countries & Cyprus | Comptoir d'Electricite Generale-International-S.A.L. | Cebaco Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon | +961-1-240430 |
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| Philippines | MELCO Factory Automation Philippines Inc. | 128, Lopez Rizal St., Brgy. Highway Hills, Mandaluyong City, Metro Manila, Philippines | +63-(0)2-256-8042 |
| | Edison Electric Integrated, Inc. | 24th Fl. Galleria Corporate Center, Edsa Cr. Ortigas Ave., Quezon City Metro Manila, Philippines | +63-(0)2-634-8691 |
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| Republic of Moldova | Intehsis SRL | bld. Traian 23/1, MD-2060 Kishinev, Moldova | +373 (0)22-66-4242 |
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