

Energy Measuring Unit Logging Unit Utility

INSTRUCTION MANUAL

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1 Introduction

Logging Unit Utility is utility software to use Energy Measuring Unit with Logging Unit. This manual explains the operation of Logging Unit Utility. Please read this manual carefully to ensure correct use.

This manual is written on the assumption that you understand the basic operations of Microsoft Windows and Microsoft Excel. If there is anything unclear about them, refer to the manual for them.

Please refer to the manual of each product for the handling of the Energy Measuring Unit and Logging Unit.

1.1 Disclaimer

- Please confirm "The Software end user license agreement" in the end of a book enough when you use this software.
- Our company does not assume the responsibility about the damage that was able to be received by the use mistake of the trouble in the system by the customer or the third party, the legal trouble, and this software, breakdowns caused while using it, and other trouble at all.
- The screen image and the operational procedure that has been described in this manual might be different according to the version of Microsoft Windows, Microsoft Excel.

1.2 Trademarks

- Microsoft, Windows, and Excel are registered trademarks of Microsoft Corporation in the United States and other countries.
- Other company and product names herein are trademarks or registered trademarks of their respective owners.
- In the text, trademark symbols such as "TM" and "®" may not be written.

1.3 Features

Logging Unit Utility has the following features.

1 Report creating

Paste the logging data preserved in the SD memory card to the report master file (Excel file). A free form report can be created by using the original customer's report master file.

Report type that can be created

Report type	Content	Logging data file			
Monthly	Output the 1-day cycle data for 1-month.	1-day data file			
Weekly	Output the 1-hour cycle data for 7-days. 1-hour data file				
Daily	Output the 1-hour cycle data for 1-day.	1-hour data file			
Detailed	Output the one of 30, 15, 10, 5, 1 minute cycle data for	Detailed data file			
(Min)	the specified span (For 1 to 24 hours).	(logging cycle is			
		30, 15, 10, 5, 1 minute)			
Detailed	Output the 1-second cycle data for 1-hour.	Detailed data file			
(Sec)		(logging cycle is 1-second)			

> The report type without logging data file cannot be created.

2 Logging setting

The setting data file (set.csv) can be created. An existing setting data file can be edited.

3 Multi-language corresponding

Display the text in the selected language (English or Japanese).

1.4 System configuration

Logging Unit (Model E	MU4-LM)	Create the report.
EcoMonitorLight		
SD memory card	Read the loggin	PC

In the report file, the data of one Logging Unit is pasted to one sheet. The data of 31 Logging Units can be output in the maximum.

2 Preparation before use

This chapter explains the confirmation before Logging Unit Utility like the system requirement etc. is used.

2.1 System requirement

The system requirement for Logging Unit Utility to operate normally is as follows.

Hardware

Item	Contents
CPU	It conforms to the system requirement for OS.
Memory	It conforms to the system requirement for OS.
Hard disc	The free space of about 20MB is necessary for this software.
	(The capacity to preserve the report file is separately necessary.)
Display	High-resolution display with XGA or more
	(It can display 65536 colors and 1024 × 768 dots or more.)
Input devices	Mouse and keyboard
External interface	SD Memory Card slot or SD Memory Card Reader/Writer

Software

Item	Contents	
OS	Microsoft Windows 10 Pro (32bit/64bit)	
	Microsoft Windows 11 Pro (64bit)	
.NET Framework	Microsoft .NET Framework 4 Client Profile	
Excel	Microsoft Excel 2016 (32bit)	
	Microsoft Excel 2019 (32bit/64bit)	
	Microsoft Excel 2021 (32bit/64bit)	

2.2 Processes from download to the installation

Logging Unit Utility can be downloaded from the MITSUBISHI FA site.

It is possible to use it by unzip the downloaded data compressed file, and copying it onto an arbitrary place (C:\Mitsubishi folder etc.).

The installation of Logging Unit Utility is unnecessary. When the target version of the .NET Framework is not installed, then installation of the NET Framework is needed.

Folder composition

} en∖

It becomes the following compositions when copying it onto the C:\Mitsubishi folder.						
C:\Mitsubishi\						
LoggingUnitUtility	Application folder					
LoggingUnitUtility.exe	Execute file					
LoggingUnitUtility.exe.config	Configulation file					

 Language folder (Japanese)
 Please do not copy it onto the program folder (C:\Program Files folder and C:\Program Files(x86) folder). There is a possibility of not operating normally.

Language folder (English)

The language folder becomes the following compositions.

en \	Language folder (English)					
├ Master\	Report master folder					
Monthly\	Monthly report master folder					
L SampleMonthlyReport-2.xlsx	Monthly report master file					
- Weekly\	Weekly report master folder					
L SampleWeeklyReport-2.xlsx	Weekly report master file					
- Daily\	Daily report master folder					
L SampleDailyReport-2.xlsx	Daily report master file					
	Detailed (Min) report master folder					
L SampleDetailedMinReport-2.xlsx	Detailed (Min) report master file					
│ └ Detailed_Sec\	Detailed (Sec) report master folder					
SampleDetailedSecReport-2.xlsx	Detailed (Sec) report master file					
L Models\	Model define folder					
- LoggingItem.dat	Logging item file					
- Model.dat	Model file					
L xxxx.dat	Logging item file by model (xxxx=0001-)					

Each report master file is a sample.

Please put it on each report master folder when you use the original customer's report master file.

Please do not change the name and do not delete the folder and the file. It does not operate normally. However, you may change to the file name that manages easily, and if you are unnecessary, delete a file about each report master file.

When the installation of .NET Framework is necessary

When the target version of the .NET Framework is not installed, the following messages appear when <u>execution file (LoggingUnitUtility.exe) is double-clicked</u> and this software cannot be started.



Please download and install the following from Microsoft Download Center when this message is displayed. .NET Framework 4 Client Profile

Microsoft Download Center

http://www.microsoft.com/download/

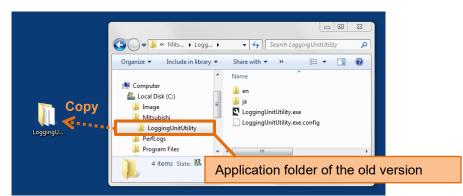
- > Please download the one corresponding to OS being used when is for x86(32bit) and for x64(64bit).
- Please refer to the download page for the installation.

2.3 Upgrade from the old version

When using a report master file of the customer original by the old version, please upgrade by the following procedure.

1 Back up the old version files

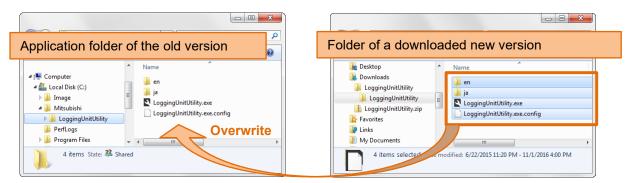
Copy the application folder of the old version to the other folder such as a desktop.



The figure above is the example when copying and using the old version in C:\Mitsubishi folder.

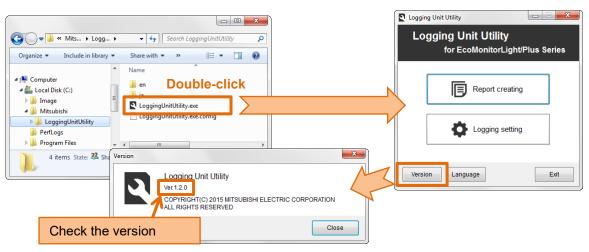
2 Copy the new version files

Copy the new version files to the application folder of the old version.



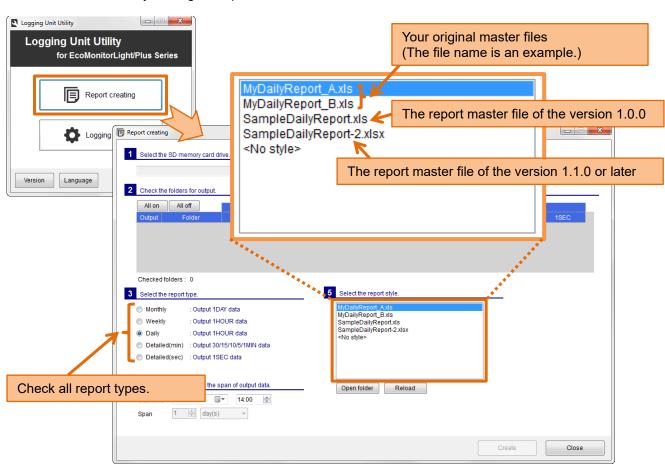
3 Check the version

Double-click the execution file, and check the version.



4 Check the report master files

Please make sure that your original report master file remains.



- If your report master file had the same name as the report master file of the version 1.1.0 or later, your report master file will be overwritten. In that case, restore from the old version of the backup.
- The report master files of the version 1.0.0 can be used in the new version, please delete if not necessary.

2.4 Uninstallation

Please delete copied application folder ("LoggingUnitUtility" folder) when Logging Unit Utility becomes unnecessary.

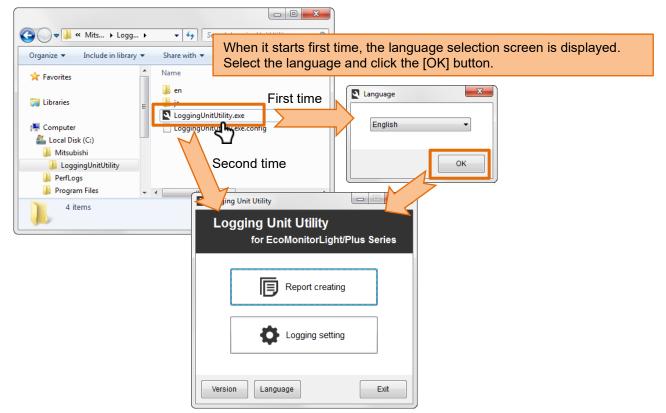
At that time, please move the necessary files such as the customer's original sample report master file to another place.

3 **Basic operation**

This chapter explains a basic operation of Logging Unit Utility.

3.1 Start

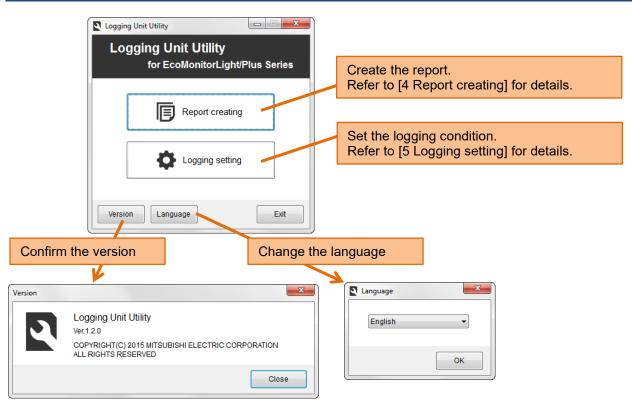
Double-click the execution file of Logging Unit Utility (LoggingUnitUtility.exe).



Create shortcut It is convenient to create the shortcut of the execution file. ✓ 4 Search LoggingUnitUtility 😋 🔾 🗢 📙 « Mits... 🕨 Logg... 🕨 Q Organize 🔻 🖬 Open 🛛 New folder 1 - 2 . Name ★ Favorites 📗 en 🥃 Libraries LoggingUnitUtility.exe 💻 Computer Logging υp 🚢 Local Disk (C:) ۲ Run as adr Right-click the execution file and Mitsubishi Troublesho Select [Send to]-[Desktop (Create shortcut)] menu. LoggingUnitUtility Pin to Task PerfLogs Pin to Start Men Program Files - -Restore previous versions LoggingUnitUtility.exe Date modified: 8 1 Send to Compressed (zipped) folder Application Size: Desktop (create shortcut) Cut Documents Сору Fax recipient Paste Mail recipient

Create chartout

3.2 Execute each function



3.3 Exit

Please exit clicking the [Exit] button or [X] button of window.



4 Report creating

This chapter explains the procedure for creating reports such as daily reports and monthly reports from the data file preserved on the SD memory card.

4.1 Prepare the data file

Prepare the SD memory card where logging data files have been preserved by Logging Unit. Please refer to the manual ([8. Directions]-[Output logging data and system log data to the SD memory card]) of Logging Unit for output logging data to the SD memory card.

The folder composition in the SD memory card is as follows.

	Storage locat	ion				
Type of data file	folder da		Year and month folder	File name	Report type	
Logging data file						
1-day data file	LOGxxx —	1DAY		Dyymm.CSV	Monthly	
1-hour data file		— 1HOUR —		Hyymmdd.CSV	Weekly, Daily	
Detailed data file						
30-minutes data		30MIN	— уутт —	-30Mdd.CSV	Detailed (Min)	
15-minutes data		15MIN ——	— уутт —	-15Mdd.CSV	Detailed (Min)	
10-minutes data		10MIN	— уутт —	-10Mdd.CSV	Detailed (Min)	
5-minutes data		5MIN ——	— уутт —	-05Mdd.CSV	Detailed (Min)	
1-minute data		1MIN ——	— уутт —	-01Mdd.CSV	Detailed (Min)	
1-second data		1SEC	уутт —	Sddhh.CSV	Detailed (Sec)	
System log data file				SYS_LOG.CSV	No use	

For detailed data files, data acquired in specified "Detailed data logging cycle" is only output.

xxx: Logging ID (001 to 255)
 yy: Last two digits of the year CE (00 to 99)
 mm: Month (01 to 12)
 dd: Day (01 to 31)
 hh: Hour (00 to 23)

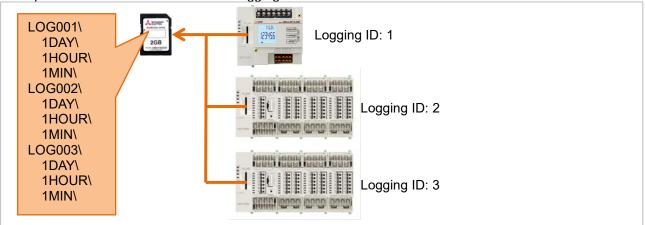
■Use the logging data copied to computer.

The report can be created from the data file copied to the computer with the folder composition of the SD memory card maintained.

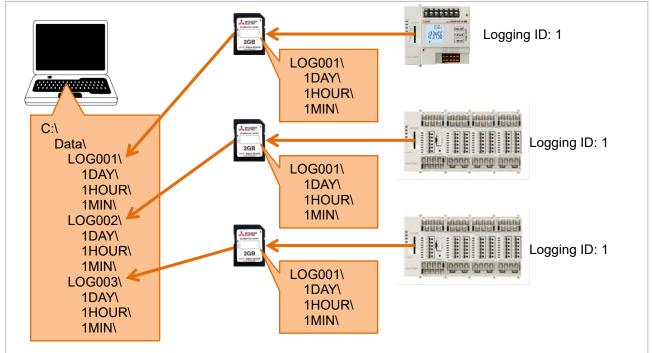
Please note that it is not possible to create it when the folder composition is different.

Use the logging data of two or more Logging Units

Please set separate logging ID to each Logging Unit and preserve it on the SD memory card when you create the report from the data of two or more Logging Units.



Please copy the data file of each Logging Unit to the computer so that logging ID folder name should not overlap when it has already operated by same logging ID, and one SD memory card of one Logging Unit is used.



Logging ID folder name (It is LOG001, LOG002, and LOG003 in the above figure) when copying to the computer may change to the name ("Equipment A-1" and "Line 2" etc.) that manages easily. However, please do not use the name that cannot be used for the sheet name of Excel so that this folder name may become a sheet name.

Name that cannot be used for sheet name of Excel: • Do not exceed 31 characters. • The following character cannot be used: : \ / ? * []

Blank

4.2 Create the report

Preparation

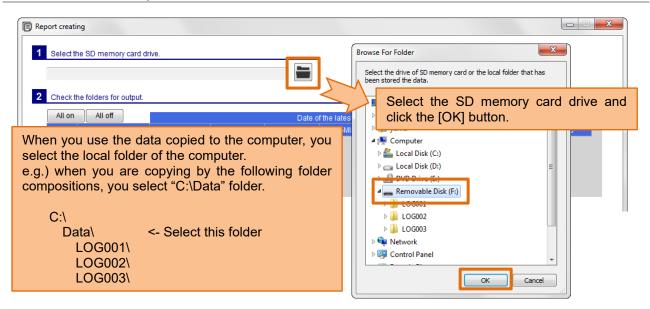
Insert the SD memory card that preserves logging data files in the computer. When the data copied to the computer is used, the SD memory card is not necessary.

Outline

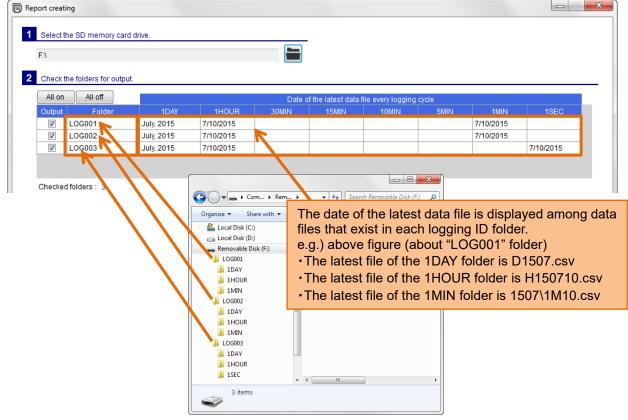
Operate it on the [Report creating] screen.

Logging Unit Utility Logging Unit Utility for EcoMonitorLigh Report creatin Logging setting	ng	1) Set the it	em of 1 -	5 of screen		
Version Language	Report creating	2) Click the	[Create] butto	n.		x
	LOG002	1DAY 1HOUR July, 2015 7/10/2015 July, 2015 7/10/2015 July, 2015 7/10/2015	Date of the latest data 30MIN 15MIN	file every logging cycle 10MIN 5MIN	1MIN 7/10/2015 7/10/2015	1SEC
	☑ LOG003 July; Checked folders : 3 3 Select the report type. ◎ Monthly : Output 1DAY data ◎ Weekly : Output 1HOUR of ◎ Datailed(min) : Output 1HOUR of ○ Detailed(min) : Output 13/15/10/ ◎ Detailed(sec) : Output 15EC data		5 Select the report style. SampleDailyReport-2.xt <no style=""></no>	þx.		
	4 Select the start time and the sp Start time 7/ 9/2015 ••• Span 1 •• day(s)		Open folder Rei	load	Create	Close

1 Select the SD memory card drive.



The logging ID folder ("LOG001" folder etc.) that exists under the selected folder is displayed.



When logging ID folder with the data file does not exist in the selected folder, the message is displayed on the screen. Please select the folder again.

Report creating		
Select the SD memory card drive. C1	There are no data files in the selected folder.	

2 Check the folders for the output.

⊡\ Check t	he folders for outp	ıt	All on: All All off: All				••••		
All on				Date o	f the latest data f	ile every logging	cvcle		
Output	Folder	1DAY	1HOUR	30MIN	15MIN	10MIN	5MIN	1MIN	1SEC
1	LOG001	July, 2015	7/10/2015					7/10/2015	
1	LOG002	July, 2015	7/10/2015					7/10/2015	
V	LO.G003	July, 2015	7/10/2015						7/10/2015

3 Select the report type.

	3 Select the report t	ype.	5 Select the report style.
	Monthly : Output 1DAY data Weekly : Output 1HOUR data Daily : Output 1HOUR data Datailed(min) : Output 30/15/10/5/1MIN data Datailed(sec) : Output 1SEC data		SampleDailyReport-2.xlsx <no style=""></no>
4	Start time 7/ 9	ne and the span of output data. //2015	Open folder Reload

4 Select the start time and the span of output data.

3 Select the report type.	5 Select the report style.	
Monthly : Output 1DAY data Weekly : Output 1HOUR data Daily : Output 1HOUR data	SampleDailyReport-2.xlsx <no style=""></no>	
 Detailed(min) : Output 30/15/10/5/1MIN data Detailed(sec) : Output 1SEC data 	The data of the span from the specified The span can be selected only when (min)".	
4 Select the start time and the span of output data. Start time 7/ 9/2015 Span 1	Open folder Reload	

5 Select the report style.

Select the report type.	5 Select the report style.
Monthly : Output 1DAY data Weekly : Output 1HOUR data Daily : Output 1HOUR data Detailed(min) : Output 30/15/10/5/1MIN data Detailed(sec) : Output 1SEC data	SampleDailyReport-2.xlsx <no style=""></no>
Select the start time and the span of output data.	Open folder Reload
	e report master file that you want to use. data into a new Excel workbook if you select the " <no style="">".</no>

6 Click the [Create] button.

Report creating					
1 Select the SD memory card	drive.				
F۱					
Check the folders for output.					
All on All off		Data of the Joing	i data fila ayang langaing ayala		
Output Folder	1DAY 1H	OUR 30MIN 15MI	t data file every logging cycle N 10MIN 5	MIN 1MIN 1SEC	
LOG001 LOG002	July, 2015 7/10/2 July, 2015 7/10/2			7/10/2015 7/10/2015	
LOG002	July, 2015 7/10/2			7/10/2015	
	Running				
Checked folders : 3					
Select the report type.	(3/3)				
Monthly : Output 1	DAY data			It will be aborted	by clicking the
	HOUR data		Cancel	[Cancel] button.	
 Daily : Output 1 Detailed(min) : Output 3 	HOUR data				
 Detailed(sec) : Output 1 					
Select the start time and the	span of output data.	Open folder	Reload		
	1:00				
Span 1 📩 day(s	5) 🔻				
				Create Close	
ve As		4	×		
↓ Libraries → Doc	uments b	✓ 4y Search Documents			
		8 8 8 8 8 8 8 8 8 8 8 8 8 8			
ganize Vew folder		8==	•		
	ocuments library	Arrange by: Fo	der 🔻		
Libraries E Nan	ne	*	Date mod		
Documents My Documents					
Public Docume	Sp	ecify the file nan	he and click th	e [Save] button.	
Music 🔤 Pictures					
Videos					
			+		
File <u>n</u> ame: D20150709.xl	s				
Save as <u>t</u> ype: *.xls			—		
Hide Folders		<u>S</u> ave C	ancel		
→ · My Do	1.570	My Documents P			
anize ▼ 🗶 Open ▼	Share with				
Users	Name				
🎒 yama	D20150709.xls				
)h Contacts]} Desktop					
Downloads	Ξ	The saved file is	displayed in I	Explorer.	
Favorites Links					
My Documents					
My Music		4			
D20150709.xls Microsoft Excel 97-2003		8/11/2015 2:12 PM			

Contents of the report file.

Data of the selected logging ID folder, paste to the sheet with the same name as the folder name.

	🛃 🗳 ▾ (ལ ▾ : ile Home	- Insert Page Layou	D20150709.xls [Compati it Formulas Data		rosoft Excel					
	AF52	→ (fx		I KEVIEW	1600					
1	A	B	С	D	E		F 📼			
1		CH1	CH1	CH1	CH1		CH2			
2		Current I(Average)	Voltage V(Average)	Electric power	Electric energy(con	sumption)	Current I(Avera			
3		[A]	[V]	[kW]	[kWh]		[A]			
4	7/9/2015 1:00	0	208	0		1				
5	7/9/2015 2:00	0	208	0		0				
6	7/9/2015 3:00	0	207			1				
7	7/9/2015 4:00	0	207	Report creat	ting					
8	7/9/2015 5:00	0	208							
9	7/9/2015 6:00	0	208	1 Select	the SD memory card d	rive.				
10	7/9/2015 7:00	0	207							
11	7/9/2015 8:00	0	210	F:\						
12	7/9/2015 9:00	25	210	2 Check						
13	7/9/2015 10:00	34	210	Z Check	the folders for output.					
14	7/9/2015 11:00	53	209	All on	All off			Date o	of the latest data t	ile everv logaina
15	7/9/2015 12:00	41	210	Output	Folder	1DAY	1HOUR	30MIN	15MIN	10MIN
16	7/9/2015 13:00	71	208		LOG001	July, 2015	7/10/2015			
17	7/9/2015 14:00	70	209		LOG002	July, 2015	7/10/2015			
18	7/9/2015 15:00	71	208		LOG003	July, 2015	7/10/2015			
19	7/9/2015 16:00	93							1	1
20	7/9/2015 17:00	106	208							
21	7/9/2015 18:00	73	221	Chacka	d folders : 3					
22	7/9/2015 19:00	34								
23	7/9/2015 20:00	15	209	3 Select	the report type.			5 Select t	he report style.	
	7/9/2015 21:00			Mont	hly : Output 1D	AV data		Sample	DailyReport-2.xls	x
	7/9/2015 22:00		207	-				<no styl<="" td=""><td></td><td></td></no>		
	7/9/2015 23:00		206							
27	7/10/2015 0:00		206	O Daily	: Output 1H	OUR data				
14	► ► LOG001	LOG002 LOG003	2	🔘 Deta	iled(min) : Output 30	15/10/5/1MIN	l data			
Rea				🔘 🔘 Deta	iled(sec) : Output 1S	EC data				

Logging data is pasted as in the floowing example. e.g.) Report type: Daily, Start time: 7/9/2015 1:00

	a file (H1	50709	9.CS	V)				
	А		В	С	D	E		
LOGGING]			YM_1	2				
DATETIME[YYY)	Y/MM/DD hh:				DOUBLE[DEC.0]			
IME	= /= //		INDEX	CH1 A[A]	CH1 V[V]	CH1 W[kW]		
		2015 1:00	1	(
		2015 2:00	2					
		2015 3:00	3					
		2015 4:00 2015 5:00	4					
		2015 5:00	6					
		2015 0:00	7					
		2015 7:00	8					
		2015 9:00	9					
		015 10:00	10					
		015 11:00	11					
		015 12:00	12					
		015 13:00	13					
		015 14:00	14					
	7/9/20	015 15:00	15	71	208	23		
	7/9/20	015 16:00	16		209	30		
		015 17:00	17					
		015 18:00	18					
		015 19:00	19					
		015 20:00	20					
		015 21:00	21					
		015 22:00	22					
		015 23:00 2015 0:00	23 24					
	5 6 7 8 9 10 11 12 13 14	7/9/201 7/9/201 7/9/201 7/9/201 7/9/201 7/9/201 7/9/2015 7/9/2015	5 3:00 5 4:00 5 5:00 5 6:00 5 7:00 5 8:00 5 9:00 5 10:00 5 11:00		0 0 0 0 0 2 5 34 53	208 207 207 208 208 207 210 210 210 210 210	0 0 0 0 0 0 0 0 8 10 17	Line 3: Unit Data of span
	15	7/9/2015			41	210	13	
		7/9/2015			71	208	23	
		7/9/2015 7/9/2015			70 71	209 208	22 23	
	10				93	208	30	
	10	7/9/2015			106	203	35	
		7/9/2015				200	24	
	20	7/9/2015	17:00			211		
	20 21	7/9/2015 7/9/2015	17:00 18:00		73	211		
	20 21 22	7/9/2015 7/9/2015 7/9/2015	17:00 18:00 19:00		73 34	210	10	
	20 21 22 23	7/9/2015 7/9/2015 7/9/2015 7/9/2015 7/9/2015	17:00 18:00 19:00 20:00		73 34 15	210 209	10 4	
	20 21 22 23 24	7/9/2015 7/9/2015 7/9/2015 7/9/2015 7/9/2015	i 17:00 i 18:00 i 19:00 i 20:00 i 21:00		73 34 15 31	210 209 210	10	
	20 21 22 23 24 25	7/9/2015 7/9/2015 7/9/2015 7/9/2015 7/9/2015 7/9/2015	i 17:00 i 18:00 i 19:00 i 20:00 i 21:00 i 22:00		73 34 15	210 209	10 4 10	
	20 21 22 23 24 25 26	7/9/2015 7/9/2015 7/9/2015 7/9/2015 7/9/2015 7/9/2015 7/9/2015	17:00 18:00 19:00 20:00 21:00 22:00 23:00		73 34 15 31 0	210 209 210 207	10 4 10 0	
	20 21 22 23 24 25 26	7/9/2015 7/9/2015 7/9/2015 7/9/2015 7/9/2015 7/9/2015	17:00 18:00 19:00 20:00 21:00 22:00 23:00		73 34 15 31 0 0	210 209 210 207 206	10 4 10 0	
	20 21 22 23 24 25 26 27	7/9/2015 7/9/2015 7/9/2015 7/9/2015 7/9/2015 7/9/2015 7/9/2015	17:00 18:00 19:00 20:00 21:00 22:00 23:00		73 34 15 31 0 0	210 209 210 207 206	10 4 10 0	
	20 21 22 23 24 25 26 27 28	7/9/2015 7/9/2015 7/9/2015 7/9/2015 7/9/2015 7/9/2015 7/9/2015	i 17:00 i 18:00 i 19:00 i 20:00 i 21:00 i 22:00 i 23:00 5 0:00		73 34 15 31 0 0 0	210 209 210 207 206	10 4 10 0 0	

- •
- If the width of the cell is narrow, please adjust the cell width. Logging item name will be output in the item name that corresponds to the language used. •
- ulletDate and time will be output to the actual in seconds, but it appears to have omitted.

Depending on the start time, but with data from multiple logging data file is pasted. e.g.) Report type: Daily, Start time: 7/9/2015 <u>9:00</u>

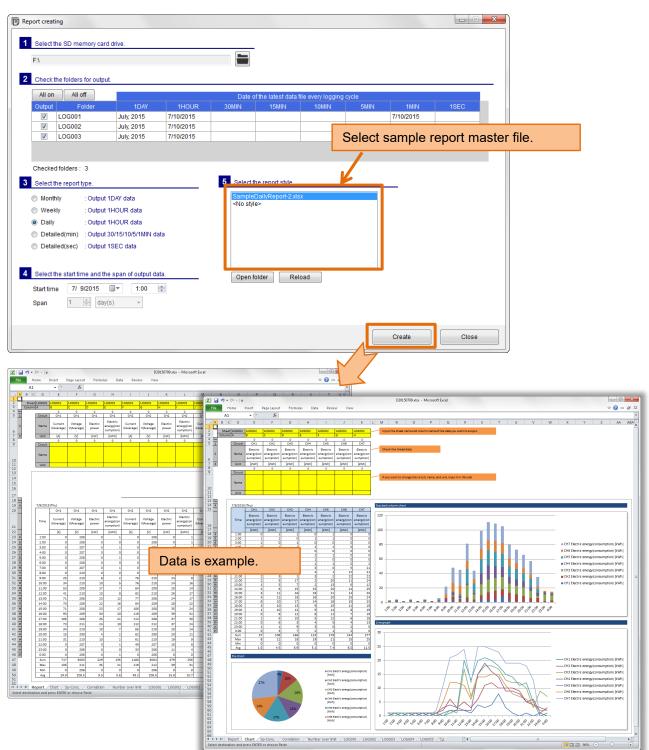
	ogging data file (H1507)		,	
	A	В	С	D
1 2	[LOGGING] DATETIME[YYYY/MM/DD hh:mm:ss]	YM_1		3 DOUBLE[DEC.0]
23	TIME		CH1 A[A]	CH1 V[V]
4	7/9/2015 1:00			
5	7/9/2015 2:00			
6	7/9/2015 3:00	3	0	207
7	7/9/2015 4:00	4	0	207
8	7/9/2015 5:00	5	0	208
9	7/9/2015 6:00	6	0	208
10	7/9/2015 7:00	7	0	207
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2	7/9/2015 22:00	22	0	207
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26	7/9/2015 23:00	23	0	206
27	7/10/2015 0:00	24	0	
27 L	7/10/2015 0:00 ogging data file (H1507	24 10.C	sV)	206
L	7/10/2015 0:00 ogging data file (H1507	24 10.C B	SV)	206
27 L	7/10/2015 0:00 ogging data file (H1507 A [LOGGING]	24 10.C B YM_1	0 SV) C 2	206 D 3
27 L	7/10/2015 0:00 ogging data file (H1507 7 A [LOGGING] DATETIME[YYYY/MM/DD hh:mm:ss]	24 10.C YM_1 INDEX	C C DOUBLE[DEC.2]	D D DOUBLE[DEC.1]
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27 1 2 3 4	7/10/2015 0:00 ogging data file (H1507 A [LOGGING] DATETIME[YYYY/MM/DD hh:mm:ss] TIME 7/10/2015 1:00	24 10.C YM_1 INDEX INDEX 1	C 2 DOUBLE[DEC.2] CH1 A[A] 0	206 D 3 DOUBLE[DEC.1] CH1 V[V] 208
27 L 1 2 3 4 5	7/10/2015 0:00 ogging data file (H1507 A [LOGGING] DATETIME[YYYY/MM/DD hh:mm:ss] TIME 7/10/2015 1:00 7/10/2015 2:00	24 10.C B YM_1 INDEX INDEX 1 2	C 2 DOUBLE[DEC.2] CH1 A[A] 0 0	206 D 3 DOUBLE[DEC.1] CH1 V[V] 208 208
27 1 2 3 4 5 6	7/10/2015 0:00 ogging data file (H1507 A [LOGGING] DATETIME[YYYY/MM/DD hh:mm:ss] TIME 7/10/2015 1:00 7/10/2015 2:00 7/10/2015 3:00	24 10.C B YM_1 INDEX INDEX 1 2 3	C 2 DOUBLE[DEC.2] CH1 A[A] 0 0 0	206 D 3 DOUBLE[DEC.1] CH1 V[V] 208 208 208 208
27 1 2 3 4 5 6 7	7/10/2015 0:00 ogging data file (H1507 A [LOGGING] DATETIME[YYYY/MM/DD hh:mm:ss] TIME 7/10/2015 1:00 7/10/2015 2:00 7/10/2015 3:00 7/10/2015 4:00	24 10.C 9 YM_1 INDEX INDEX 1 2 3 4	C 2 DOUBLE[DEC.2] CH1 A[A] 0 0 0 0 0	206 D 3 DOUBLE[DEC.1] CH1 V[V] 208 208 208 208 207
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27 1 2 3 4 5 6 7 8 9	7/10/2015 0:00 Ogging data file (H1507 ' A [LOGGING] DATETIME[YYYY/MM/DD hh:mm:ss] TIME 7/10/2015 1:00 7/10/2015 1:00 7/10/2015 3:00 7/10/2015 5:00 7/10/2015 6:00	24 10.C 9 YM_1 INDEX 10DEX 1 2 3 4 4 5 6	C 2 DOUBLE[DEC.2] CH1 A[A] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	206 D 3 DOUBLE[DEC.1] CH1 V[V] 208 208 208 208 207 207 207 207
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27 1 2 3 4 5 6 7 8 9 10 11 12 13	7/10/2015 0:00 Ogging data file (H1507 · A [LOGGING] DATETIME[YYYY/MM/DD hh:mm:ss] TIME 7/10/2015 1:00 7/10/2015 3:00 7/10/2015 5:00 7/10/2015 5:00 7/10/2015 9:00 7/10/2015 9:00 7/10/2015 10:00	24 10.C B YM_1 INDEX INDEX 1 2 3 4 5 6 7 8 9 10	C 2 DOUBLE[DEC.2] CH1 A[A] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	D 3 DOUBLE[DEC.1] CH1 V[V] 208 208 208 207 207 207 207 208 208 208 208 208 208 208 208 208 209
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27 L 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 14 15	7/10/2015 0:00 Ogging data file (H1507 A [LOGGING] DATETIME[YYYY/MM/DD hh:mm:ss] TIME 7/10/2015 1:00 7/10/2015 3:00 7/10/2015 3:00 7/10/2015 5:00 7/10/2015 9:00 7/10/2015 9:00 7/10/2015 1:000 7/10/2015 1:000 7/10/2015 1:200	24 10.C B YM_1 INDEX INDEX 1 2 3 4 4 5 6 7 8 9 10 11 12	C 2 DOUBLE[DEC.2] CH1 A[A] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	D D DOUBLE[DEC.1] CH1 V[V] 208 208 208 207 207 208 208 209 209 210 209
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Logging item name and unit will be output from the first of the logging data file. In first file and the second file, even if the lists of logging items are different, we can combine the data in the same column unconditionally.

If you change the logging item, please be careful so as not to output before and after the change data in the same report. Normal to seven file (up to 8 files) used in the weekly report, require special attention.

4.3 Use the sample report style

The sample report master file is attached to Logging Unit Utility.



To use the sample

In the sample report file, by referring to the data from the data sheet (such as sheet "LOG001") has created a sample sheet of the report and chart.

Reference data has become to be modified by entering the sheet name and column names in a particular cell.

C	D	E LOG001	F	G		H LOGOD1 LOG	3001	LOG001	LOG001	1.06001				
umn A		B		D	_	E F	4	G	H		R			
	Circuit	C 1	CH1	CH		CH1	CH2	CH2	CH2	CH2				
	Name	Current I(Average)	Voltage V(Average)	Elect		energy(con	urrent verage)	Voltage V(Average)	Electric power	Electric energy(con sumption)				t name and t ellow colored
- H	Unit	I.	[1]	[kV	V]	[kWh]	[A]	M	[kW]	[kWh]				
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Re	fer to	o the c	olumr	ו "B	" 0	f sheet "	LOC	GOO1".						
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	7/9/2015	(Thu)			1		CH:			CH1		CH1		CH1
Г	, 15/2015	CH1	CH1	СН	2			rrent I(Ave	erage)	Voltage V(A	verage)	Electric powe		Electric energy(cons
					3		[A]			[V]		[kW]		[kWh]
	Time	Current I(Average)	Voltage /(Average)	Elec		7/9/2015 1:			0		208		0	1
		I(Average)	(Average)	pov	5	7/9/2015 2:			0		208		0	(
		[A]	M	[kV		7/9/2015 3			0		207		0	1
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		0	206		29									
	Min Avg	29.9	208.5			Repo						r over limit 📜 L	OG001	LOG002 / LOG003

The data of the logging item decided every time comes to be output beforehand by inputting the cell name as the sheet name.

The procedure is described from next page.

The operation in Excel might be different depending on the version and the configuration of Excel.

1 Create the report specifying the sample report master file.

F:\										
Check	the folders for outpu	t								
All on										
		1DAY	1HOUR	Date (30MIN		file every logging		41001	4050	
Output	LOG001	July, 2015	7/10/2015	30MIN	15MIN	10MIN	5MIN	1MIN 7/10/2015	1SEC	
V	LOG002	July, 2015	7/10/2015			_		7/10/2015	_	
v	LOG002	July, 2015	7/10/2015				Soloct	the com	nla ronor	t master file.
				1			Gelect	uie sam	pie repor	t master me.
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	ne // 9/2015	1:00	*							

2 Open the created report file.

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📔 My Videos 🗸 🧹	A B	1 C 0	~	F F	G	н	1	J	K	L	м	N	0	Р	Q	R	S	т
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D20150709.xlsx Title: A Microsoft Excel Worksheet	4 Ru 5 1	Circuit	СН1		ф СН1		CH2	CH2	UH2	UH2 Electric	↓ СН3	СНЗ	↓ СН3	CH3 Electric	CH4	CH4	CH4	CH4 Electric
	6	Name	Current I(Average)	Voltage V(Average)		energy(con sumption)	Average) V(Voltage (Average)	Electric power	energy(con sumption)	Current I(Average)	Voltage V(Average)	Electric power	energy(con sumption)	Current I(Average)	Voltage V(Average)	Electric power	energy(con sumption)
	7 3	Unit	(A) ↓	M T	[kW]	[kWb] ↓	(A) ↓	M T	[kW] ↓	[kWh]	N V	M V	[k₩] ↓	(kwh)	₩	M V	(kW)	(kwn)
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4.4 Create an original report master file

If you want to create a report and chart of your own format, let's create the original report master file. The creating procedure (example) is described as follows.

The operation in Excel might be different depending on the version and the configuration of Excel.

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2 Open the created report file.

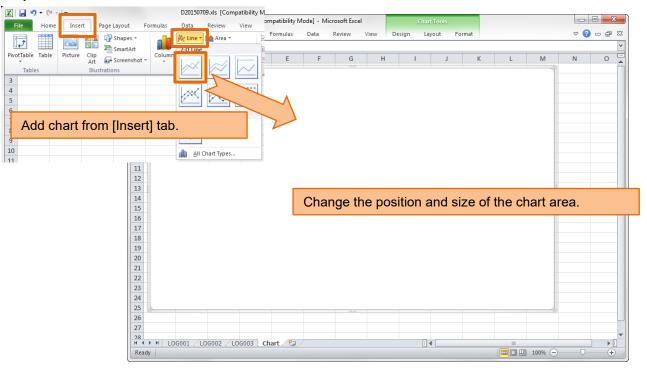
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3 Add a sheet.



4 Edit the added sheet.

Try to add the line chart.



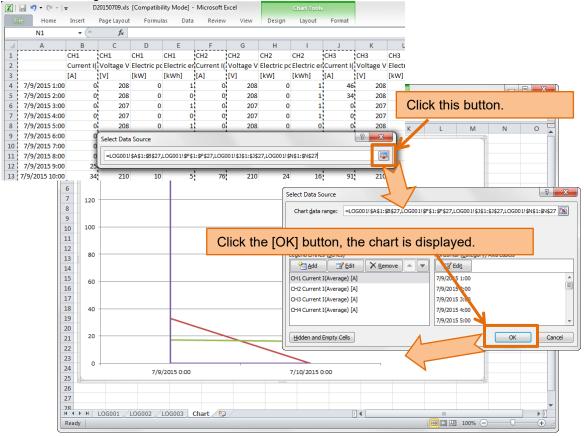
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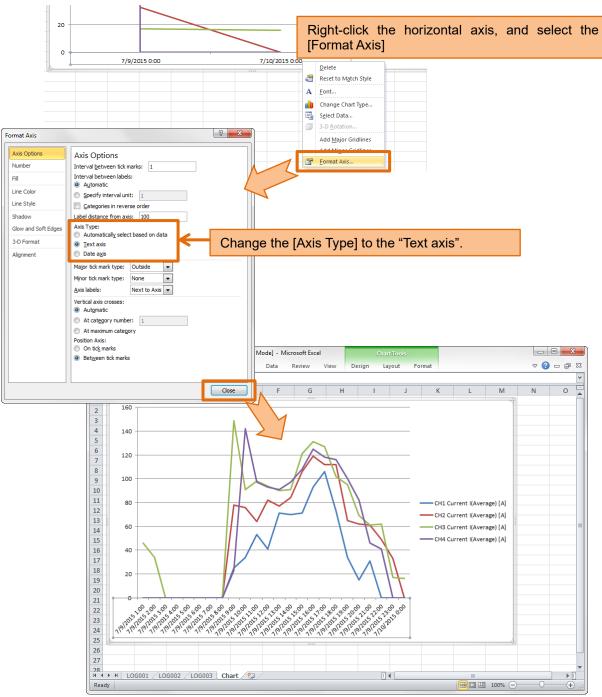
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Confirm the range of chart data.



If the horizontal axis of the chart (time axis) is not the intended display, please try to change the formatting of the axis.



5 Save the file.

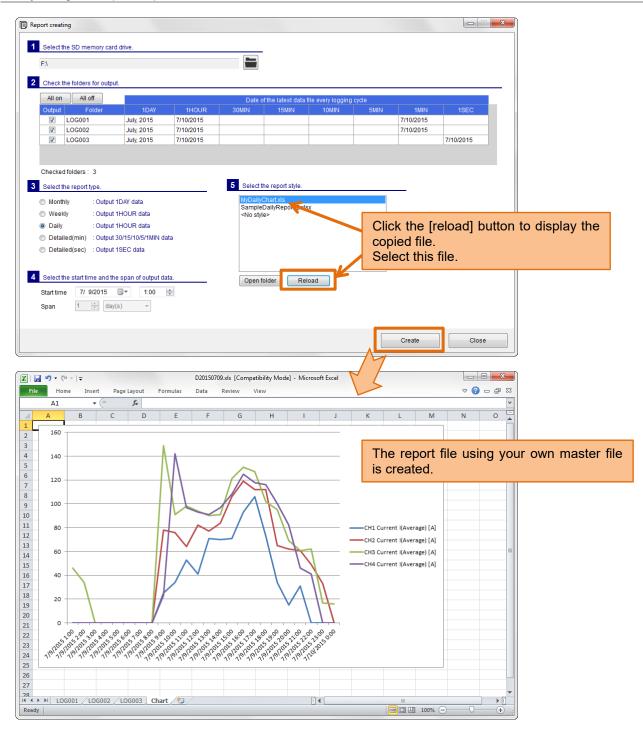
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6 Copy the saved file to the report master folder.

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7 Try using the copied report master file.



5 Logging setting

This chapter explains the procedure for setting the logging condition (detailed data logging cycle and logging items, etc.) to Logging Unit.

When the logging condition of Logging Unit is changed, logging data is initialized. Please insert the SD memory card in Logging Unit before changing the setting, and preserve the logging data.

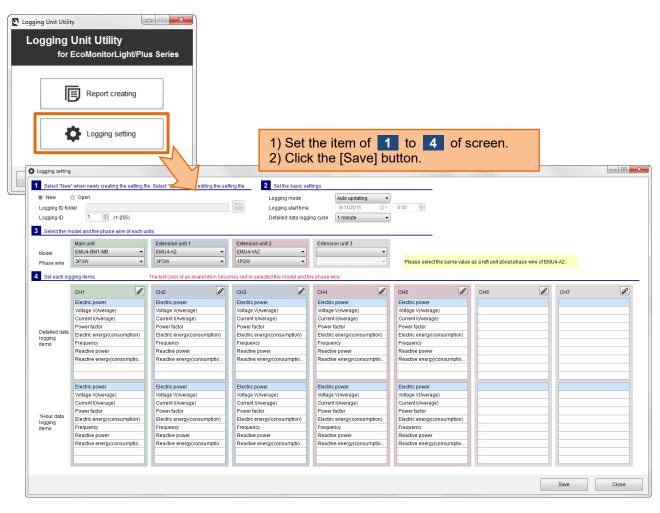
5.1 Newly do the logging setting

Preparation

Insert the SD memory card to preserve setting data file (set.csv) in the computer. Only when setting data file (set.csv) is preserved in a local folder of the computer, the SD memory card is not necessary.

Outline

Operate it on the [Logging setting] screen.



1 Set the logging ID.

1 Select "New" whe	en newly creating the setting file	. Select "Open" when editing the setting file.	
New O Logging ID folder	pen	Set the same valu	e as logging ID set to Logging Unit.
Logging ID	1 🚔 (1-255)		

2 Set the basic settings.

2 Set the basic settings.				Select	"Auto updating" or "Date nomination".
Logging mode Logging start time Detailed data logging cycle	Auto updating 8/11/2015 1 minute	· 0:	:00		Specify the date and time when logging begins. (When the logging mode is "Date nomination")
	<u> </u>		f		d" "4 minute" "E minutes" "40 minutes" "4E minutes

Select the detailed logging cycle from "1 second", "1 minute", "5 minutes", "10 minutes", "15 minutes", and "30 minutes" When you select "1 second", the detailed data logging items becomes four items or less per circuit.

About the logging mode

Logging mode	How the Logging Unit works
Auto updating	Logging operation starts right after the settings are finished.
	After memorable maximum logging period, the oldest data is erased to overwrite
	new one with the passing of time.
Date nomination	Logging operation starts from the specified "Logging start time".
	After maximum logging period, logging operation is stopped automatically.

3 Select the model and the phase wire of each unit.

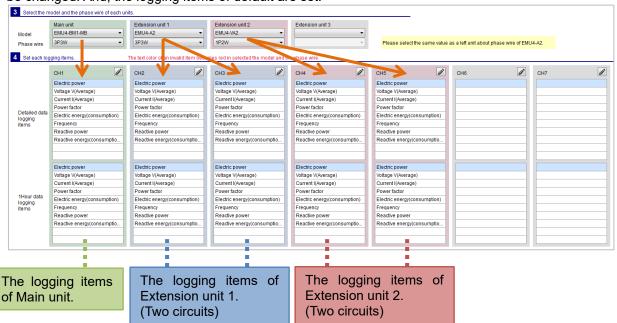
EcoMonitorLight

3 Select the model and the phase wire of each units.						
Model Phase wire	Main unit EMU4-BD1-MB 3P3W	Extension unit 1	Extension unit 2	v	Extension unit 3	
	ne model and phase		Extension unit 1 to 3 are not used.			
EMU4 EMU4	ls of EcoMonitorLigh I-BD1A-MB, EMU4- I-BD1-MB, EMU4-H I-FD1-MB	HD1A-MB				

EcoMonitorPlus

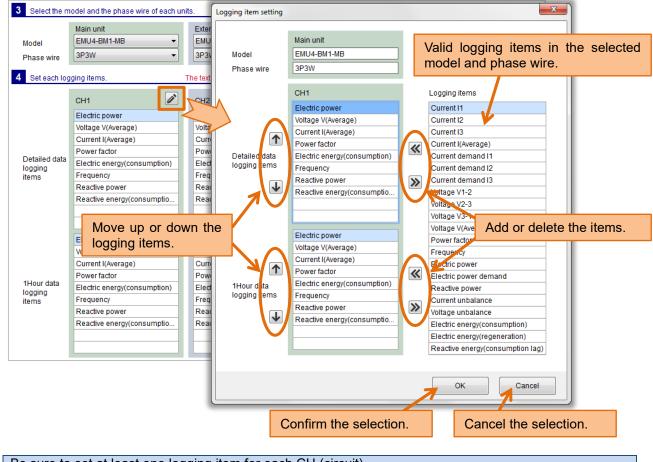
Main unit Extension unit 1 EMU4-BM1-MB	Extension unit 2 Extension unit 3		
Phase wire 3P3W	1P2W -		
Select the model and the phase wire of Main unit. ■Models of Main unit. EMU4-BM1-MB EMU4-HM1-MB EMU4-LG1-MB	 When using the Extension unit, select the model and the phase wire of Extension unit. Models of Extension unit. EMU4-A2, EMU4-VA2 EMU4-AX4, EMU4-PX4 About phase wire of EMU4-A2 Select the same value as a left unit. 		

When the model of each unit is selected, the background color of CH (circuit) corresponding to the unit will be changed. And, the logging items of default are set.

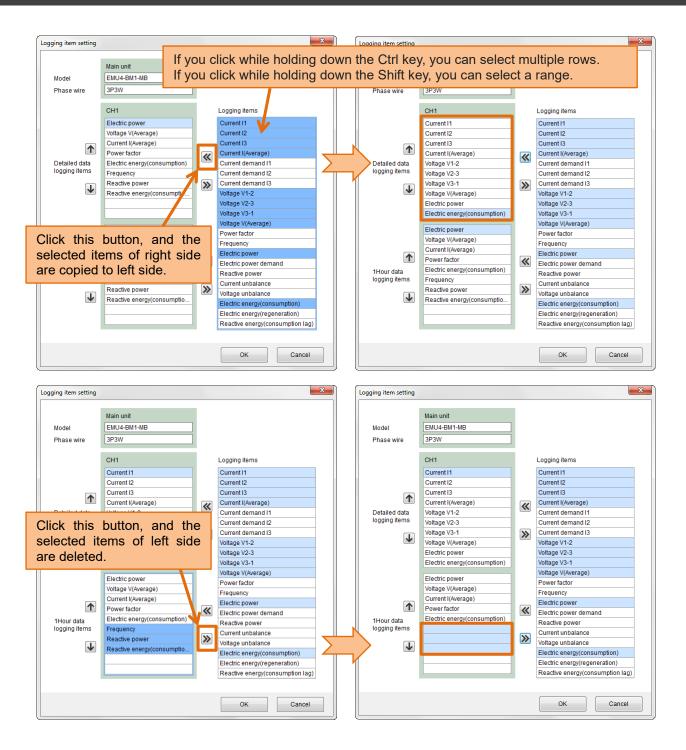


4 Set each logging items.

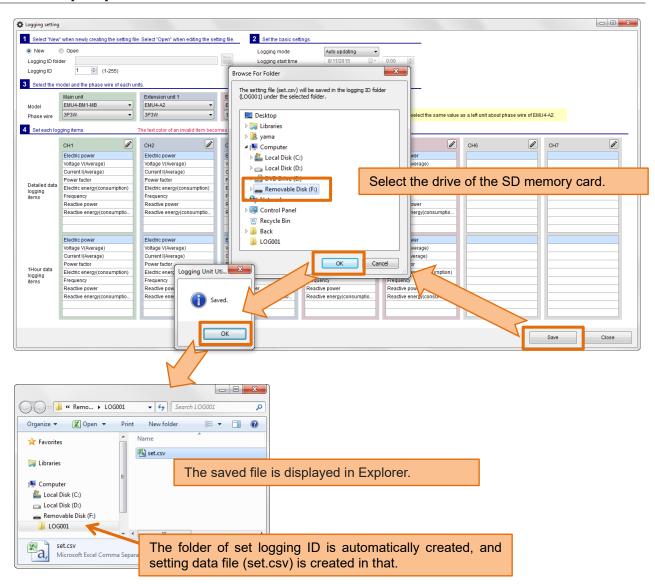
Edit the logging items clicking the edit button (pencil button) of each CH (circuit).



Be sure to set at least one logging item for each CH (circuit).



5 Click the [Save] button.



6 Insert the SD memory card in the Logging Unit and set the logging condition.

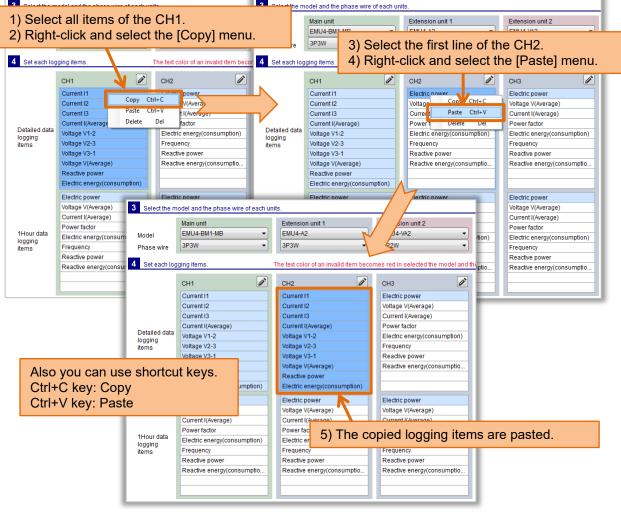
After inserting the SD memory card in Logging Unit, You can check the results of the settings change depending on the state of LOG.LED.

State of LOG.LED.	Results of the settings change
Blinks slowly for 5 seconds	The settings are changed properly.
(Repetition of 0.5-second on	
and 0.5-second off).	
Blinks quickly for 30 seconds	The setting change is failed.
(Repetition of 0.25-second on	Confirm the model and the phase wire of the measuring unit.
and 0.25-second off).	Confirm whether to set an invalid logging item.
Does not blink	The settings are not changed.
	Confirm whether it is no same as the current settings.
	Confirm whether the logging ID is correct.

Useful functions to editing of the logging items

When you right-click on the list of logging items, appears a menu that can copy and paste or delete.

e.g.) Copy all detailed logging items of the CH1 to the CH2.



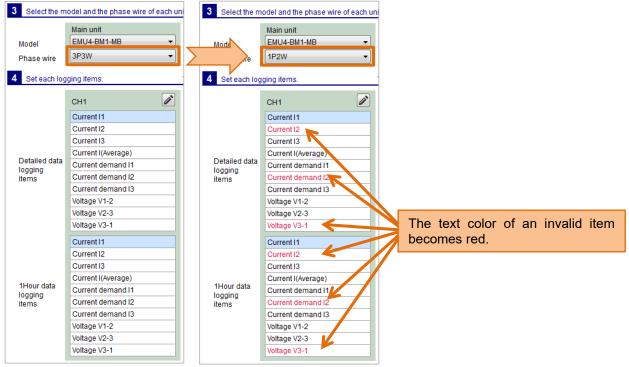
e.g.) Delete the logging items from the CH1

	Main unit	Extension unit 1		Main unit		Extension unit	1	Extension unit 2	
odel	EMU4-BM1-MB	EMU4-A2	Model	EMU4-BM1-MB	-	EMU4-A2	-	EMU4-VA2	
hase wire	3P3W 👻	3P3W	Phase wire	3P3W	•	3P3W		[1P2W ▼	
Set each log	iging items.	The text color of an	4 Set each log	iging items.		The text color of ar	n invalid item becor	mes red in selected the model and th	
	СН1	CH2		CH1		CH2	A 1		
	Current I1	Current I1		Current I1		Current I1	Also yo	ou can use shortcu	it keys
	Current I2	Current I2		Current I2		Current I2	Del key	/: Delete	
	Current I3	Current 13		Current 13		Current I3			
	Current I(Average)	Current I(Averag		Current I(Average)		Current I(Avera	ge)	Power factor	
etailed data gging	Voltage V1-2	Voltage V1-2	Detailed data logging	Voltage V1-2		Voltage V1-2		Electric energy(consumption)	
ms	Voltage V2-3	Voltage V2-3	items	Voltage V2-3		Voltage V2-3		Frequency	
	Voltage V3-1	Voltage V3-1		Voltage V3-1		Voltage V3-1		Reactive power	
	Voltage V(Average)	Voltage V(Avera		Voltage V(Average)		Voltage V(Avera	ige)	Reactive energy(consumptio	
						Reactive power	r		
1) Se	lect the logging	items.		Isur	mption)	Electric energy	(consumption)		
	ght-click and sel		elete] m	enu.		3) Delete	d.		
	Current I(, verage)	Current I(Averaç		Current I(Average)		Current I(Avera	ge)	Current I(Average)	
lour data	Power factor	Power factor		Power factor		Power factor		Power factor	
gging	Electric energy(consumption)	Electric energy(1Hour data logging	Electric energy(consur	motivan	Electric energy	(consumption)	Electric energy(consumption)	
ms	Frequency Department Copy Ctrl+C	Frequency	items			Frequency		Frequency	
	Reactive por	eactive bower				Reactive power	r	Reactive power	
	Reactive en Paste Ctrl+V Delete Del	active en				Reactive energ	y(consumptio	Reactive energy(consumptio	

Invalid logging item

The text color of an invalid item becomes red in selected the model and the phase wire. You must delete an invalid logging item or change to a valid logging item. (It is not possible to preserve it when there is a red-text logging item.)

e.g.) Change the phase wire after the logging items are set.



About the valid logging items, refer to the manual ([16. Appendix]-[List of logging items]) of Logging Unit.

5.2 Change the logging settings

Preparation

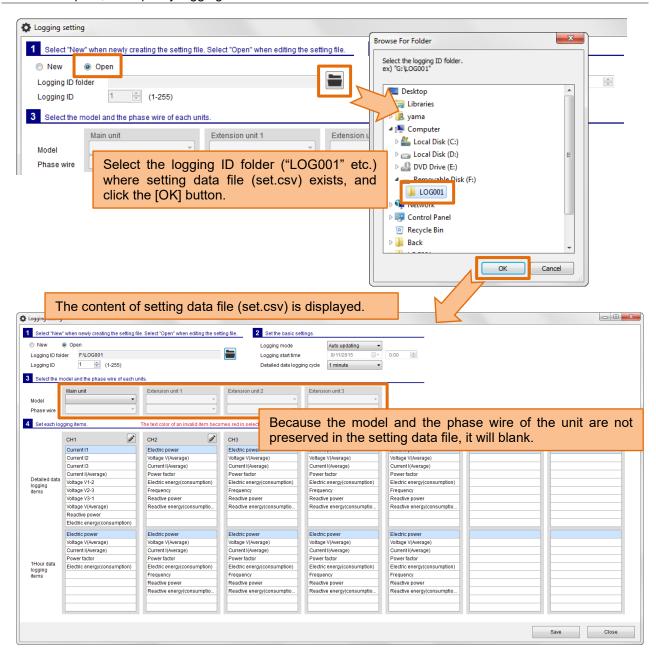
Insert the SD memory card that preserves setting data file (set.csv) in the computer. Only when you edit setting data file (set.csv) preserved in a local folder of the computer, the SD memory card is not necessary.

Outline

Operate it on the [Logging setting] screen.

	tility						
	g Unit Utility or EcoMonitorLight/P	lus Series					
	Logging setting		1) S 2) C	et the item of lick the [Save]	1 - 4 of button.	screen.	
Logging setting					-		
1 Salad News	when newly creating the setting file	e. Select "Open ting the se	tting file. 2 Set the basic se	Hinge			
		ang the se			1		
	Open		Logging mode	Auto updating -	0.00		
Logging ID fold			Logging start time	8/19/2015	0:00		
Logging ID	1 🔄 (1-255)		Detailed data logg	ing cycle 1 minute -			
3 Select the m	odel and the phase wire of each un	its.					
Model Phase wire	Main unit EMU4-BM1-MB • 3P3W •	Extension unit 1 EMU4-A2 • 3P3W •	Extension unit 2 EMU4-VA2 • 1P2W •	Extension unit 3	Please select the same value a	as a left unit about phase wire of EMI	J4-A2.
4 Set each logg	ging items.	The text color of an invalid item becc	omes red in selected the model and t	he phase wire.			
	CH1	CH2	снз	CH4	СН5	СН6	CH7
	Current I1	Electric power	Electric power	Electric power	Electric power		
	Current I2	Voltage V(Average)					
					Voltage V(Average)		
	Current 13	Current I(Average)	Voltage V(Average) Current I(Average)	Voltage V(Average) Current I(Average)	Voltage V(Average) Current I(Average)	L	
Detailed data	Current I3 Current I(Average) Voltage V1-2	Current I(Average) Power factor Electric energy(consumption)	Current I(Average) Power factor Electric energy(consumption)	Current I(Average) Power factor Electric energy(consumption)	Current I(Average) Power factor Electric energy(consumption)		
Detailed data logging items	Current I3 Current I(Average) Voltage V1-2 Voltage V2-3	Current I(Average) Power factor Electric energy(consumption) Frequency	Current I(Average) Power factor Electric energy(consumption) Frequency	Current I(Average) Power factor Electric energy(consumption) Frequency	Current I(Average) Power factor Electric energy(consumption) Frequency		
logging	Current I3 Current ((Average) Voltage V1-2 Voltage V2-3 Voltage V3-1	Current I(Average) Power factor Electric energy(consumption) Frequency Reactive power	Current I(Average) Power factor Electric energy(consumption) Frequency Reactive power	Current ((Average) Power factor Electric energy(consumption) Frequency Reactive power	Current I(Average) Power factor Electric energy(consumption) Frequency Reactive power		
logging	Current I3 Current I(Average) Voltage V1-2 Voltage V2-3 Voltage V2-1 Voltage V(Average)	Current I(Average) Power factor Electric energy(consumption) Frequency	Current I(Average) Power factor Electric energy(consumption) Frequency	Current I(Average) Power factor Electric energy(consumption) Frequency	Current I(Average) Power factor Electric energy(consumption) Frequency		
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logging	Current I3 Current I(Average) Voltage V1-2 Voltage V2-3 Voltage V3-1 Voltage V(Average) Electric power Electric neergy(consumption)	Current I(Average) Power factor Electric energy(consumption) Frequency Reactive power Reactive energy(consumptio	Current (Average) Power factor Electric energy(consumption) Frequency Reactive power Reactive energy(consumptio	Current I(Average) Power factor Electric energy(consumption) Frequency Reactive power Reactive energy(consumptio	Current I/Average) Power factor Electric energy(consumption) Frequency Reactive power Reactive energy(consumptio		
logging	Current I3 Current I(Average) Voltage V1-2 Voltage V2-3 Voltage V3-1 Voltage V(Average) Electric power	Current I(Average) Power factor Electric energy(consumption) Frequency Reactive power	Current I(Average) Power factor Electric energy(consumption) Frequency Reactive power	Current ((Average) Power factor Electric energy(consumption) Frequency Reactive power	Current I(Average) Power factor Electric energy(consumption) Frequency Reactive power		
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logging items	Current I3 Current I/Average) Voltage V1-2 Voltage V2-3 Voltage V2-3 Voltage V2-3 Voltage V2-4 Voltage V2-4 Electric power Electric power Electric power Voltage V2-4 Voltage V2-4 V0-4 VOLtage V2-4 V0-4 V0-4 V0-4 V0-4 V0-4 V0-4 V0-4 V0	Current (Average) Power factor Electric energy(consumption) Frequency Reactive energy(consumption) Electric power Electric power Voltage V(Average) Current ((Average) Current ((Average) Power factor	Current (Average) Power factor Electric energy(consumption) Frequency Reactive energy(consumption) Reactive energy(consumption Electric power Voltage V(Average) Current ((Average) Power factor	Current (Average) Power factor Electric energy(consumption) Frequency Reactive power Reactive energy(consumptio. Electric power Violtage V(Average) Current (Average) Power factor	Current (Average) Power fador Electric energy(consumption) Frequency Reactive power Reactive energy(consumptio Electric power Violage (V/evrage) Current (/Average) Power fador		
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logging items 1Hour data	Current I3 Current I/Average) Voltage V1-2 Voltage V2-3 Voltage V2-3 Voltage V2-3 Voltage V2-4 Voltage V2-4 Electric power Electric power Electric power Voltage V2-4 Voltage V2-4 V0-4 VOLtage V2-4 V0-4 V0-4 V0-4 V0-4 V0-4 V0-4 V0-4 V0	Current (Average) Pover factor Electric energy(consumption) Frequency Reactive energy(consumptio.) Electric power Reactive energy(consumptio.) Electric power Uotlage (Vaverage) Current ((Average) Power factor Electric energy(consumption) Frequency	Current (I/verage) Power factor Electric energy(consumption) Frequency Readtw energy(consumption) Electric power Electric power Voltage V(/verage) Current (I/verage) Power factor Electric energy(consumption) Frequency	Current (Average) Power factor Electric energy(consumption) Frequency Reactive energy(consumption) Electric power Reactive energy(consumption) Electric power Voltage (V/werage) Current ((Werage) Power factor Electric energy(consumption) Frequency	Current (Average) Power fador Electric energy(consumption) Frequency Reactive energy(consumption) Electric power Reactive energy(consumption) Electric power Current ((Average) Current ((Average) Power fador Electric energy(consumption) Frequency		
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logging items 1Hour data logging	Current I3 Current I/Average) Voltage V1-2 Voltage V2-3 Voltage V2-3 Voltage V2-3 Voltage V2-4 Voltage V2-4 Electric power Electric power Electric power Voltage V2-4 Voltage V2-4 V0-4 VOLtage V2-4 V0-4 V0-4 V0-4 V0-4 V0-4 V0-4 V0-4 V0	Current (Average) Pover factor Electric energy(consumption) Frequency Reactive energy(consumptio.) Electric power Reactive energy(consumptio.) Electric power Uotlage (Vaverage) Current ((Average) Power factor Electric energy(consumption) Frequency	Current (I/verage) Power factor Electric energy(consumption) Frequency Readtw energy(consumption) Electric power Electric power Voltage V(/verage) Current (I/verage) Power factor Electric energy(consumption) Frequency	Current (Average) Power factor Electric energy(consumption) Frequency Reactive energy(consumption) Electric power Reactive energy(consumption) Electric power Current ((Verage) Power factor Electric energy(consumption) Frequency	Current (Average) Power fador Electric energy(consumption) Frequency Reactive energy(consumption) Electric power Reactive energy(consumption) Electric power Current ((Average) Current ((Average) Power fador Electric energy(consumption) Frequency		
logging items 1Hour data logging	Current I3 Current I/Average) Voltage V1-2 Voltage V2-3 Voltage V2-3 Voltage V2-3 Voltage V2-4 Voltage V2-4 Electric power Electric power Electric power Voltage V2-4 Voltage V2-4 V0-4 VOLtage V2-4 V0-4 V0-4 V0-4 V0-4 V0-4 V0-4 V0-4 V0	Current (Average) Power factor Electric energy(consumption) Frequency Reactive energy(consumption) Electric power Voltage V(Average) Current ((Average) Power factor Electric energy(consumption) Frequency Reactive power	Current (Average) Power factor Electric energy(consumption) Frequency Reactive energy(consumption) Electric power Voltage V(Average) Current (Average) Power factor Electric energy(consumption) Frequency Reactive power	Current (Average) Power factor Electric energy(consumption) Preguency Reactive power Reactive energy(consumption) Electric power Voltage V(Average) Current (Average) Power factor Electric energy(consumption) Frequency Reactive power	Current (Average) Power fador Electric energy(consumption) Fraquency Reactive energy(consumption) Reactive energy(consumption) Electric power Vitlage V(Average) Current ((Average) Power fador Electric energy(consumption) Frequency Reactive power		
logging items 1Hour data logging	Current I3 Current I/Average) Voltage V1-2 Voltage V2-3 Voltage V2-3 Voltage V2-3 Voltage V2-4 Voltage V2-4 Electric power Electric power Electric power Voltage V2-4 Voltage V2-4 V0-4 VOLtage V2-4 V0-4 V0-4 V0-4 V0-4 V0-4 V0-4 V0-4 V0	Current (Average) Power factor Electric energy(consumption) Frequency Reactive energy(consumption) Electric power Voltage V(Average) Current ((Average) Power factor Electric energy(consumption) Frequency Reactive power	Current (Average) Power factor Electric energy(consumption) Frequency Reactive energy(consumption) Electric power Voltage V(Average) Current (Average) Power factor Electric energy(consumption) Frequency Reactive power	Current (Average) Power factor Electric energy(consumption) Preguency Reactive power Reactive energy(consumption) Electric power Voltage V(Average) Current (Average) Power factor Electric energy(consumption) Frequency Reactive power	Current (Average) Power fador Electric energy(consumption) Fraquency Reactive energy(consumption) Reactive energy(consumption) Electric power Vitlage V(Average) Current ((Average) Power fador Electric energy(consumption) Frequency Reactive power		
logging items 1Hour data logging	Current I3 Current I/Average) Voltage V1-2 Voltage V2-3 Voltage V2-3 Voltage V2-3 Voltage V2-4 Voltage V2-4 Electric power Electric power Electric power Voltage V2-4 Voltage V2-4 V0-4 VOLtage V2-4 V0-4 V0-4 V0-4 V0-4 V0-4 V0-4 V0-4 V0	Current (Average) Power factor Electric energy(consumption) Frequency Reactive energy(consumption) Electric power Voltage V(Average) Current ((Average) Power factor Electric energy(consumption) Frequency Reactive power	Current (Average) Power factor Electric energy(consumption) Frequency Reactive energy(consumption) Electric power Voltage V(Average) Current (Average) Power factor Electric energy(consumption) Frequency Reactive power	Current (Average) Power factor Electric energy(consumption) Preguency Reactive power Reactive energy(consumption) Electric power Voltage V(Average) Current (Average) Power factor Electric energy(consumption) Frequency Reactive power	Current (Average) Power fador Electric energy(consumption) Fraquency Reactive energy(consumption) Reactive energy(consumption) Electric power Vitlage V(Average) Current ((Average) Power fador Electric energy(consumption) Frequency Reactive power		Save Close

1 Select "Open", and specify logging ID folder.



When the setting data file does not exist in the selected folder, the message is displayed on the screen. Please select the folder again.



About logging ID

The logging ID is automatically set from the selected logging ID folder name.

e.g.) when you select the folder named "LOG128", the logging ID will be 128.

If you want to overwrite the same logging ID folder, you do not need to change the logging ID.

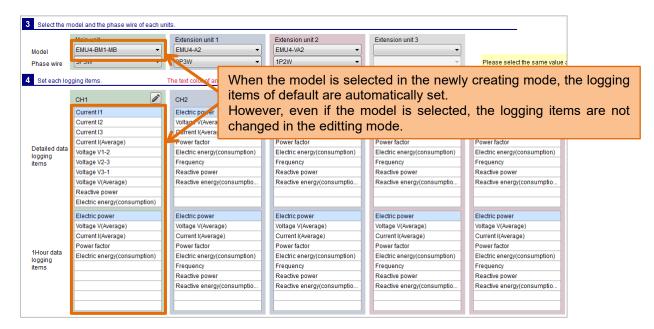
If you want to save to a different logging ID folder, please change the logging ID.

2 Set the basic settings.

3 Select the model and the phase wire of each unit.

You need not always set the model and the phase wire.

However, it is convenient to set it. Because only valid logging items are displayed by the model and the phase wire when you edit the logging item.



- **4** Set each logging items.
- **5** Click the [Save] button.

6 Insert the SD memory card in the Logging Unit and set the logging condition.

Operation method of the above 2 to 6 is basically the same as [5.1 Newly do the logging setting].

6 Appendix

6.1 Specifications

Item		Specifications							
Support mod	del	The Energy Measuring Unit with the Logging Unit (Model EMU4-LM)							
	itorLight	EMU4-BD1A-MB							
series		EMU4-HD1A-MB							
		EMU4-BD1-MB							
		EMU4-HD1-MB							
		EMU4-FD1-MB							
EcoMon	itorPlus	EMU4-BM1-MB							
series		EMU4-HM1-MB							
		EMU4-LG1-MB							
		EMU4-A2							
		EMU4-VA2							
		EMU4-AX4							
		EMU4-PX4							
Language		English, Japanese							
Report creat		Paste the logging data to the report master file (Excel file).							
	m number of	No limit							
	aster files.	(Select one file at the time of the report creation)							
	m number of								
sheets.	1	(The sheets for paste the logging data)							
Report	Monthly	Output the 1-day cycle data for 1-month.							
type	Weekly	Output the 1-hour cycle data for 7-days.							
	Daily	Output the 1-hour cycle data for 1-day.							
	Detailed	Output the one of 30, 15, 10, 5, 1 minute cycle data for the specified span (For							
	(Min)	1 to 24 hours).							
	Detailed	Output the 1-second cycle data for 1-hour.							
<u> </u>	(Sec)								
Logging sett	ing	Newly create or edit the setting data file (set.csv).							

6.2 Output format of report file

The output format of the sheet where the logging data is pasted is described according to each report type.

Report type: Monthly

e.g.) Start date: 7/1/2015

	А	В	С	D			Row 1: CH1 to 7
1		CH1	CH1	CH1		ר	
2		Current I(Average)	Voltage V(Average)	Electric power			Row 2: Logging item name
3		[A]	[V]	[kW]			Row 3: Unit name
4	7/1/2015 0:00	93	211	30			
5	7/2/2015 0:00	87	213	28			
6	7/3/2015 0:00	31	211	9			
7	7/4/2015 0:00	95	212	31			
8	7/5/2015 0:00	42	212	14			
9	7/6/2015 0:00	0	213	0			
10	7/7/2015 0:00	62	212	19			
11	7/8/2015 0:00	94	212	30			
12	7/9/2015 0:00	104	211	34			
13	7/10/2015 0:00	91	210	29			
	7/11/2015 0:00	83	211	27			
	7/12/2015 0:00	27	212	9			
16	7/13/2015 0:00	0	212	0		Ι.	
17	7/14/2015 0:00	87	212	27			There is the data from the specified start
18	7/15/2015 0:00	109	210	36			•
	7/16/2015 0:00	86	210	28	•••		date for one month.
	7/17/2015 0:00	102	211				Up to 31 rows
	7/18/2015 0:00	91	213	29		11	
	7/19/2015 0:00	24	212	8			
	7/20/2015 0:00	0	212	0			
	7/21/2015 0:00	0	211	0			
	7/22/2015 0:00	102	210	34			
	7/23/2015 0:00	111					
	7/24/2015 0:00	132	210	43			
	7/25/2015 0:00	150	211	50			
	7/26/2015 0:00	0					
	7/27/2015 0:00	0					
	7/28/2015 0:00	95					
	7/29/2015 0:00	117					
	7/30/2015 0:00	127					
	7/31/2015 0:00	148	212	49			
35							
			T				
_							
Da	ate and tin		e is the one le				nn.
		Ecol	MonitorLight:	Up to 10 c	olumns	s	
							items * 7 circuits)
		LCOI	normorrius. (Jannis	,(10	

• The line of only date and time is output at the time zone that does not exist in the logging data file due to the power failure etc.

• When all time zones do not exist or the Logging data file does not exist, the report cannot be created.

Report type: Weekly

e.g.) Start time: 7/6/2015 1:00

		CH1	CH1	CH1			Row 1: CH1 to 7 Row 2: Logging item name
2			Voltage V(Average)		•••		
3		[A]	[V]	[kW]	-	┥	Row 3: Unit name
4	7/6/2015 1:00		208	0			
5	7/6/2015 2:00	0	208	0			
6	7/6/2015 3:00	0					
7	7/6/2015 4:00	0	208	0			
8	7/6/2015 5:00	0	207	0			
9	7/6/2015 6:00	0	208	0			
10	7/6/2015 7:00	0	209	0			
11	7/6/2015 8:00	0	207	0			
12	7/6/2015 9:00	0	211	0			
13	7/6/2015 10:00	26	208	8			
14	7/6/2015 11:00	15	208	4			
15	7/6/2015 12:00	20	208	6			
16	7/6/2015 13:00	16	210	4			
17	7/6/2015 14:00	23	207	7			
18	7/6/2015 15:00		207	10			
19	7/6/2015 16:00						
20	7/6/2015 17:00						
21	7/6/2015 18:00						
22	7/6/2015 19:00					1	
23	7/6/2015 20:00						
24	7/6/2015 21:00						
25	7/6/2015 22:00						
26	7/6/2015 23:00						
27	7/7/2015 0:00						
28	7/7/2015 1:00						There is the data from the specified
			200				
	7/11/2015 23:00 7/12/2015 0:00						168 rows (24 hours * 7 days)
.47	7/12/2015 0:00	0	208	0			
.47 .48	7/12/2015 0:00 7/12/2015 1:00	0	208 208	0 0			
.47 .48 .49	7/12/2015 0:00 7/12/2015 1:00 7/12/2015 2:00	0 0 0	208 208 208	0 0 0			
L47 L48 L49 L50	7/12/2015 0:00 7/12/2015 1:00 7/12/2015 2:00 7/12/2015 3:00	0 0 0 0	208 208 208 208 208	0 0 0			
L47 L48 L49 L50 L51	7/12/2015 0:00 7/12/2015 1:00 7/12/2015 2:00 7/12/2015 3:00 7/12/2015 4:00	0 0 0 0 0	208 208 208 208 208 207	0 0 0 0			
147 148 149 150 151	7/12/2015 0:00 7/12/2015 1:00 7/12/2015 2:00 7/12/2015 3:00 7/12/2015 4:00 7/12/2015 5:00	0 0 0 0 0 0 0 0	208 208 208 208 208 207 207	0 0 0 0 0 0			
L46 L47 L48 L49 L50 L51 L52 L53 L54	7/12/2015 0:00 7/12/2015 1:00 7/12/2015 2:00 7/12/2015 3:00 7/12/2015 4:00 7/12/2015 5:00	0 0 0 0 0 0 0 0 0	208 208 208 208 208 207 208 209	0 0 0 0 0 0			
L47 L48 L49 L50 L51 L52 L53	7/12/2015 0:00 7/12/2015 1:00 7/12/2015 2:00 7/12/2015 3:00 7/12/2015 4:00 7/12/2015 5:00 7/12/2015 6:00 7/12/2015 7:00	0 0 0 0 0 0 0 0 0 0 0	208 208 208 208 208 207 208 209 209 209	0 0 0 0 0 0 0 0 0			
L47 L48 L50 L51 L52 L53 L54	7/12/2015 0:00 7/12/2015 1:00 7/12/2015 2:00 7/12/2015 3:00 7/12/2015 4:00 7/12/2015 5:00 7/12/2015 6:00 7/12/2015 7:00		208 208 208 208 207 208 209 209 209	0 0 0 0 0 0 0 0 0 0 0			
147 148 149 150 151 152 153 154 155 156	7/12/2015 0:00 7/12/2015 1:00 7/12/2015 2:00 7/12/2015 3:00 7/12/2015 4:00 7/12/2015 5:00 7/12/2015 6:00 7/12/2015 7:00 7/12/2015 8:00		208 208 208 207 207 209 209 209 209 209	0 0 0 0 0 0 0 0 0 0 0 0 0			
147 148 149 150 151 152 153 154 155 156 157	7/12/2015 0:00 7/12/2015 1:00 7/12/2015 2:00 7/12/2015 3:00 7/12/2015 4:00 7/12/2015 5:00 7/12/2015 6:00 7/12/2015 7:00 7/12/2015 9:00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	208 208 208 207 207 209 209 209 209 209 209 209 209 209 209	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
147 148 149 150 151 152 153 155 155 156 158	7/12/2015 0:00 7/12/2015 1:00 7/12/2015 2:00 7/12/2015 3:00 7/12/2015 4:00 7/12/2015 5:00 7/12/2015 6:00 7/12/2015 7:00 7/12/2015 9:00 7/12/2015 10:00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	208 208 208 209 209 209 209 209 209 209 209 209 209	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
147 148 149 150 151 152 153 154 155 155 155 155 158 159	7/12/2015 0:00 7/12/2015 1:00 7/12/2015 2:00 7/12/2015 3:00 7/12/2015 5:00 7/12/2015 5:00 7/12/2015 7:00 7/12/2015 8:00 7/12/2015 9:00 7/12/2015 1:000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	208 208 208 209 209 209 209 209 209 201 201 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
47 48 50 51 52 53 55 55 55 55 55 55 55 55 55 55 55 55	7/12/2015 0:00 7/12/2015 1:00 7/12/2015 2:00 7/12/2015 3:00 7/12/2015 5:00 7/12/2015 5:00 7/12/2015 6:00 7/12/2015 8:00 7/12/2015 9:00 7/12/2015 1:00 7/12/2015 1:200	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	208 208 208 209 209 209 209 209 211 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
47 48 49 50 51 52 53 55 55 55 55 55 55 55 55 55 55 55 55	7/12/2015 0:00 7/12/2015 1:00 7/12/2015 2:00 7/12/2015 3:00 7/12/2015 4:00 7/12/2015 5:00 7/12/2015 6:00 7/12/2015 8:00 7/12/2015 10:00 7/12/2015 11:00 7/12/2015 12:00 7/12/2015 13:00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	208 208 208 207 209 209 209 209 211 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 1			
147 448 49 50 51 52 53 55 55 55 55 55 55 55 55 55 55 55 55	7/12/2015 0:00 7/12/2015 1:00 7/12/2015 2:00 7/12/2015 3:00 7/12/2015 4:00 7/12/2015 6:00 7/12/2015 6:00 7/12/2015 9:00 7/12/2015 10:00 7/12/2015 11:00 7/12/2015 12:00 7/12/2015 13:00 7/12/2015 14:00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	208 208 208 207 208 209 209 209 209 209 209 209 209 209 209	0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0 0			
447 448 49 50 51 52 53 55 55 55 55 55 55 55 55 55 60 60 61 62 62 63	7/12/2015 0:00 7/12/2015 1:00 7/12/2015 2:00 7/12/2015 3:00 7/12/2015 4:00 7/12/2015 5:00 7/12/2015 6:00 7/12/2015 7:00 7/12/2015 9:00 7/12/2015 10:00 7/12/2015 11:00 7/12/2015 13:00 7/12/2015 15:00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	208 208 208 207 208 209 209 209 209 209 209 209 209 209 209	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 1 1 0 1			
447 448 49 50 51 52 53 55 55 55 55 55 55 55 55 55 55 55 60 60 61 62 63 63	7/12/2015 0:00 7/12/2015 1:00 7/12/2015 2:00 7/12/2015 3:00 7/12/2015 4:00 7/12/2015 5:00 7/12/2015 6:00 7/12/2015 9:00 7/12/2015 10:00 7/12/2015 11:00 7/12/2015 13:00 7/12/2015 15:00 7/12/2015 16:00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	208 208 208 207 207 209 209 209 209 209 209 209 209 209 209	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 1 1 0 0 1 1 0 0			
447 48 49 50 51 53 53 53 55 55 55 55 55 55 55 60 60 61 62 63 63 64 64	7/12/2015 0:00 7/12/2015 1:00 7/12/2015 2:00 7/12/2015 2:00 7/12/2015 5:00 7/12/2015 5:00 7/12/2015 5:00 7/12/2015 10:00 7/12/2015 10:00 7/12/2015 11:00 7/12/2015 12:00 7/12/2015 12:00 7/12/2015 15:00 7/12/2015 15:00 7/12/2015 17:00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	208 208 208 207 207 209 209 209 209 209 209 209 209 209 209	0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 1 1 0 0 1 1 0 0			
447 448 49 50 51 53 53 55 55 55 55 55 55 55 55 55 55 55	7/12/2015 0:00 7/12/2015 1:00 7/12/2015 2:00 7/12/2015 2:00 7/12/2015 3:00 7/12/2015 4:00 7/12/2015 5:00 7/12/2015 0:00 7/12/2015 10:00 7/12/2015 11:00 7/12/2015 12:00 7/12/2015 12:00 7/12/2015 15:00 7/12/2015 15:00 7/12/2015 16:00 7/12/2015 16:00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	208 208 208 207 207 209 209 209 209 209 209 209 209 209 209	0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 1 1 0 0 1 1 0 0			
447 448 49 50 51 53 53 55 55 55 55 55 55 55 55 60 60 61 62 63 64 65 66 66 65	7/12/2015 0:00 7/12/2015 1:00 7/12/2015 2:00 7/12/2015 3:00 7/12/2015 5:00 7/12/2015 5:00 7/12/2015 5:00 7/12/2015 1:00 7/12/2015 10:00 7/12/2015 11:00 7/12/2015 12:00 7/12/2015 13:00 7/12/2015 15:00 7/12/2015 16:00 7/12/2015 18:00 7/12/2015 19:00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	208 208 208 209 209 209 209 209 209 209 209 209 209	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0			
447 448 49 50 51 53 53 55 55 55 55 55 55 55 60 61 60 61 62 63 63 64 65 66 66 66 66 66 66 66 66 66 66 66 66	7/12/2015 0:00 7/12/2015 1:00 7/12/2015 2:00 7/12/2015 2:00 7/12/2015 5:00 7/12/2015 5:00 7/12/2015 5:00 7/12/2015 0:00 7/12/2015 10:00 7/12/2015 12:00 7/12/2015 12:00 7/12/2015 13:00 7/12/2015 14:00 7/12/2015 16:00 7/12/2015 16:00 7/12/2015 19:00 7/12/2015 19:00 7/12/2015 19:00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	208 208 208 209 209 209 209 209 211 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 1 0 1			
147 148 149 150 151 152 153 155 155 155 155 155 155 155	7/12/2015 0:00 7/12/2015 1:00 7/12/2015 2:00 7/12/2015 3:00 7/12/2015 5:00 7/12/2015 5:00 7/12/2015 6:00 7/12/2015 8:00 7/12/2015 10:00 7/12/2015 10:00 7/12/2015 12:00 7/12/2015 13:00 7/12/2015 15:00 7/12/2015 16:00 7/12/2015 16:00 7/12/2015 19:00 7/12/2015 10:00 7/12/2015 10:00 7/12/2015 10:00 7/12/2015 10:00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	208 208 208 207 208 209 209 209 209 209 209 209 209 209 209	0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 1 1 0 0 1 0 0 1 0 0 1 0 0 1 0			
447 448 49 50 51 53 53 53 55 55 55 55 55 55 60 61 63 63 63 63 63 64 65 65 66 65 66 65 65 66 65 65 65 65 65	7/12/2015 0:00 7/12/2015 1:00 7/12/2015 2:00 7/12/2015 3:00 7/12/2015 4:00 7/12/2015 5:00 7/12/2015 5:00 7/12/2015 0:00 7/12/2015 10:00 7/12/2015 11:00 7/12/2015 13:00 7/12/2015 15:00 7/12/2015 16:00 7/12/2015 16:00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	208 208 208 207 208 209 209 209 209 209 209 209 209 209 209	0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 1 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0			
447 448 449 50 51 52 53 55 55 55 55 55 155 155 155 155 155 1	7/12/2015 0:00 7/12/2015 1:00 7/12/2015 2:00 7/12/2015 2:00 7/12/2015 3:00 7/12/2015 4:00 7/12/2015 5:00 7/12/2015 9:00 7/12/2015 10:00 7/12/2015 10:00 7/12/2015 10:00 7/12/2015 10:00 7/12/2015 10:00 7/12/2015 10:00 7/12/2015 10:00 7/12/2015 10:00 7/12/2015 20:00 7/12/2015 20:00 7/12/2015 20:00 7/12/2015 20:00 7/12/2015 20:00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	208 208 208 207 208 209 209 209 209 209 209 209 209 209 209	0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 1 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0			
447 448 449 50 51 52 53 54 55 55 55 55 55 60 157 55 60 157 55 156 157 158 159 160 160 160 160 165 165 165 165 165 165 165 165 165 165	7/12/2015 0:00 7/12/2015 1:00 7/12/2015 2:00 7/12/2015 2:00 7/12/2015 3:00 7/12/2015 4:00 7/12/2015 5:00 7/12/2015 9:00 7/12/2015 10:00 7/12/2015 10:00 7/12/2015 10:00 7/12/2015 10:00 7/12/2015 10:00 7/12/2015 10:00 7/12/2015 10:00 7/12/2015 10:00 7/12/2015 20:00 7/12/2015 20:00 7/12/2015 20:00 7/12/2015 20:00 7/12/2015 20:00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	208 208 208 207 208 209 209 209 209 209 209 209 209 209 209	0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 1 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0			
447 448 449 50 51 52 53 55 55 55 55 55 155 155 155 155 155 1	7/12/2015 0:00 7/12/2015 1:00 7/12/2015 2:00 7/12/2015 2:00 7/12/2015 3:00 7/12/2015 4:00 7/12/2015 5:00 7/12/2015 9:00 7/12/2015 10:00 7/12/2015 10:00 7/12/2015 10:00 7/12/2015 10:00 7/12/2015 10:00 7/12/2015 10:00 7/12/2015 10:00 7/12/2015 10:00 7/12/2015 20:00 7/12/2015 20:00 7/12/2015 20:00 7/12/2015 20:00 7/12/2015 20:00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	208 208 208 207 208 209 209 209 209 209 209 209 209 209 209	0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 1 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0			
447 448 49 50 50 51 55 55 55 55 55 55 55 55 55 55 60 61 62 63 63 64 63 63 64 63 63 64 63 63 64 63 63 64 70 71 72	7/12/2015 0:00 7/12/2015 1:00 7/12/2015 2:00 7/12/2015 2:00 7/12/2015 3:00 7/12/2015 4:00 7/12/2015 5:00 7/12/2015 9:00 7/12/2015 10:00 7/12/2015 10:00 7/12/2015 12:00 7/12/2015 13:00 7/12/2015 16:00 7/12/2015 20:00 7/12/2015 20:00 7/12/2015 20:00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	208 208 208 207 208 209 209 209 209 209 209 209 209 209 209	0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0		m	

• The line of only date and time is output at the time zone that does not exist in the logging data file due to the power failure etc.

• When all time zones do not exist or the Logging data file does not exist, the report cannot be created.

Report type: Daily

e.g.) Start time: 7/9/2015 1:00

	A	В	С	D				
1		CH1	CH1	CH1				Row 1: CH1 to 7
2		Current I(Average)	Voltage V(Average)	Electric power	• • •			Row 2: Logging item name
3		[A]	[V]	[kW]			4	Row 3: Unit name
4	7/9/2015 1:00	0	208	0				Now 5. Onic name
5	7/9/2015 2:00	0	208	0				
6	7/9/2015 3:00	0	207	0				
7	7/9/2015 4:00	0	207	0				
8	7/9/2015 5:00	0	208	0				
9	7/9/2015 6:00	0	208	0				
10	7/9/2015 7:00	0	207	0				
11	7/9/2015 8:00	0	210	0				
12	7/9/2015 9:00	25	210	8				
13	7/9/2015 10:00	34	210	10				
14	7/9/2015 11:00	53	209	17				There is the data from the specified start
15	7/9/2015 12:00	41	210	13				date for one day.
16	7/9/2015 13:00	71	208	23				24 rows
17	7/9/2015 14:00	70	209	22				2410W5
18	7/9/2015 15:00	71	208	23				
19	7/9/2015 16:00	93	209	30				
	7/9/2015 17:00		208	35				
	7/9/2015 18:00	73	211	24				
	7/9/2015 19:00	34	210	10				
	7/9/2015 20:00	15	209	4				
	7/9/2015 21:00	31	210	10				
	7/9/2015 22:00	0	207	0				
	7/9/2015 23:00	0	206	0				
27	7/10/2015 0:00	0	206	0		-		
28	· · · · ·							
)ot	e and time			:			I	-
a		11101	e is the one l				num	n.
		Ecol	MonitorLight:	Up to 10 c	olumr	าร		
							′10 i	items * 7 circuits)
		2001				5 (admo i andato)

• The line of only date and time is output at the time zone that does not exist in the logging data file due to the power failure etc.

When all time zones do not exist or the Logging data file does not exist, the report cannot be created.

Report type: Detailed (Min)

The data at a specified span is output from among the data of 1 minute, 5 minutes, 10 minutes, 15 minutes, and 30 minutes looking for.

e.q.)	Start time:	7/9/2015	1:00,	detailed	data	logging	cycle: 30 minu	Ites

	А	В	С	D			
1		CH1	CH1	CH1		ר	Row 1: CH1 to 7
2		Current I(Average)	Voltage V(Average)	Electric power	• • •	_ ≻	Row 2: Logging item name
3		[A]	[V]	[kW]		4	Row 3: Unit name
4	7/9/2015 1:00	0	204	0			New 5. Onic name
5	7/9/2015 1:30	0	208	0			
6	7/9/2015 2:00	0	208	0			
7	7/9/2015 2:30	0	207	0			
8	7/9/2015 3:00	0	207	0			
9	7/9/2015 3:30	0	206	0			
10	7/9/2015 4:00	0	207	0			
11	7/9/2015 4:30	0	207	0			There is the data from the specified sta
46		0	206	0			
46	7/9/2015 22:00	0	206	0			Up to 49 rows (2 * 24 hours + 1)
47	7/9/2015 22:30	0	205	0			
48	7/9/2015 23:00	0	205	0			
49	7/9/2015 23:30		206	0			
50	7/10/2015 0:00	0	206	0			
51	.,	0	208	0			
	7/10/2015 1:00	0	207	0			
53						1	
						_	
			•				
-+ <i>c</i>	and time	There	is the one log	iaina item	per co	olumn	
ale	e and time		onitorLight: U				
		EcoMo	onitorPlus: Up	to 70 colu	umns	(10 ite	ems * 7 circuits)

e.g.) Start time: 7/92015 1:00, detailed data logging cycle: 15 minutes

	А	В	С	D		1	
1		CH1	CH1	CH1	_	וו	Row 1: CH1 to 7
2		Current I(Average)	Voltage V(Average)	Electric power	•••	۲I	Row 2: Logging item name
3		[A]	[V]	[kW]	_	łI	Row 3: Unit name
4	7/9/2015 1:00		208	21			
5	7/9/2015 1:15		208	20			
6	7/9/2015 1:30		209	17			
7	7/9/2015 1:45		209	20			
8	7/9/2015 2:00	48	208	15			
9	7/9/2015 2:15	59	208	18			
10	7/9/2015 2:30	61	. 208	20		1	
11	7/9/2015 2:45	54	207	17			There is the data from the specified start
_			•			ΓΙ	date for the specified span (1 to 24 hours). Up to 97 rows (4 * 24 hours + 1)
	7/9/2015 23:30	54	207	17		Ľ ۱	
95	7/9/2015 23:45	93	208	30			
96	7/10/2015 0:00		207	19			
97	7/10/2015 0:15		207	20			
98	7/10/2015 0:30		208	20			
99	7/10/2015 0:45			17			
100	7/10/2015 1:00	93	208	30	_	J	
101			Υ Υ)		
Date	e and time	EcoM	is the one log onitorLight: U onitorPlus: Up	p to 10 col	umns		ms * 7 circuits)

	А	В	С	D		
1		CH1	CH1	CH1	ר	Row 1: CH1 to 7
2		Current I(Average)	Voltage V(Average)	Electric power	<u>-</u>	Row 2: Logging item name
3		[A]	[V]	[kW]		Row 3: Unit name
4	7/9/2015 1:00	64	208	20		Now 5. Onit name
_	7/9/2015 1:10		209	17		
_	7/9/2015 1:20		209	20		
_	7/9/2015 1:30		208	15		
_	7/9/2015 1:40		207	12		
_	7/9/2015 1:50		207	17		
_	7/9/2015 2:00		208	18		
11	7/9/2015 2:10	49	208	16		There is the data from the specified st
.41 7	7/9/2015 23:40 7/9/2015 23:50 7/10/2015 0:00	48	207	22 14 12		Up to 145 rows (6 * 24 hours + 1)
_				12		
_	/10/2015 0:10			12		
_	7/10/2015 0:20			17		
_	7/10/2015 0:30			18		
_	//10/2015 0:40			16		
_	7/10/2015 0:50			19		
	/10/2015 1:00	69	208	22		
.49						
			T I			
		Thoro	is the one los	aina itom	nor column	
te a	and time		is the one log			
		EcoMo	onitorLight: U	o to 10 col	umns	
		EcoMo	onitorPlus: Un	to 70 colu	umns (10 ite	ms * 7 circuits)
te a	and time	EcoMo	onitorLight: U	o to 10 col	umns	ms * 7 circuits)

e.g.) Start time: 7/9/2015 1:00, detailed data logging cycle: 10 minutes

e.g.) Start time: 7/9/2015 1:00, detailed data logging cycle: 5 minutes

4	А	В	С	D	_		
		CH1	CH1	CH1	ר		Row 1: CH1 to 7
		Current I(Average)	Voltage V(Average)	Electric power	··· }	-	Row 2: Logging item name
		[A]	[V]	[kW]			Row 3: Unit name
7/9/2015 1:0	0	39	207	12			
7/9/201		58	207	17			
	015 1:10	55	208	18			
	2015 1:15	49	208	16			
)/2015 1:20	58	207	19			
	9/2015 1:25	69	208	22			
7	/9/2015 1:30	48	207	14			
7	/9/2015 1:35	38	208	12			
	7/9/2015 23:50 7/9/2015 23:55 7/10/2015 0:00	65 64 54	208 208 209	21 20 17		-	There is the data from the specified st date for the specified span (1 to 24 hours Up to 289 rows (12 * 24 hours + 1)
	7/10/2015 0:05	48	207	14			
	7/10/2015 0:10	38	208	12			
	7/10/2015 0:15	54	208	17			
	7/10/2015 0:20 7/10/2015 0:25	71 65	208	23			
	7/10/2015 0:25	64	208	21			
	7/10/2015 0:35	54	208	17			
-	7/10/2015 0:40	60	209	20			
-	7/10/2015 0:40	48	205	15			
-	7/10/2015 0:50	59	208	18			
-	7/10/2015 0:55	71	208	23			
-	7/10/2015 1:00	62	200	20	J		
	A						
			Ŷ				
te	e and time		is the one lo			ın.	
1		EcoM	onitorLight: U	p to 10 co	umns		
					umns (10 i		

	A	В	С	D		_	
1		CH1	CH1	CH1			Row 1: CH1 to 7
2		Current I(Average)	Voltage V(Average)		• • •		Row 2: Logging item name
3		[A]	[V]	[kW]		- - -	Row 3: Unit name
	7/9/2015 1:00	32	208	9			Now 0. Onic hame
	7/9/2015 1:01	34	207	10			
	7/9/2015 1:02	30	207	9			
	7/9/2015 1:03	37	208	12			
	7/9/2015 1:04	39	207	12			
	7/9/2015 1:05	62	207	19			
	7/9/2015 1:06	68	207	22			
	7/9/2015 1:07	66	207	21			
	7/9/2015 1:08	67	207	21			
_	7/9/2015 1:09	58	207	17			
	7/9/2015 1:10	68	207	21			
15	7/9/2015 1:11	59	207	18			There is the data from the specified sta
1433	7/10/2015 0:49	9 6	2 20	3 20			Up to 1441 rows (60 * 24 hours + 1)
	7/10/2015 0:50						
	7/10/2015 0:5:		0 20				
1436	7/10/2015 0:52	2 6	9 20	7 22			
1437	7/10/2015 0:5	3 6	1 20	7 19			
1438	7/10/2015 0:54	1 5	8 20	3 18			
1439	7/10/2015 0:55	5 6	5 20	3 21			
1440	7/10/2015 0:50	5 7	0 20	3 23			
1441	7/10/2015 0:57	7 5	0 20	7 16			
1442	7/10/2015 0:58	3 5	7 20	7 18			
1443	7/10/2015 0:55	9 6	1 20	8 19			
1444	7/10/2015 1:00) 64	4 200	8 20			
1445							
			Y				
nto 4	and time	Thore	in the one le	aging item	nor co	Jump	
			is the one lo			numn.	
			onitorLight: U				
		EcoM	onitorPlus: U	p to 70 col	umns ((10 ite	ms * 7 circuits)
						•	

e.g.) Start time: 7/9/2015 1:00, detailed data logging cycle: 1 minute

- When the report type is "Detailed (Min)", the line is not output at the time zone that does not exist in the logging data file due to the power failure etc.
- When all time zones do not exist or the Logging data file does not exist, the report cannot be created.

Report type: Detailed (Sec)

1	A	В	С	D	E	Row 1: CH1 to 7
		CH1	CH1	CH1	CH1	
2		総合電流	総合線間電圧		電力量(消費)	Row 2: Logging item name
3		[A]		[kW]	[kWh]	Row 3: Unit name
<u> </u>	2015/7/9 14:00:00	48		14		
5	2015/7/9 14:00:01	32		9	0	
)	2015/7/9 14:00:02	34		10		
7	2015/7/9 14:00:03	30		9	0	
}	2015/7/9 14:00:04	37		12		
)	2015/7/9 14:00:05	39		12		
0	2015/7/9 14:00:06	62		19		
1	2015/7/9 14:00:07	68		22		
2	2015/7/9 14:00:08	66		21	1	
3	2015/7/9 14:00:09	67		21	0	•••
4	2015/7/9 14:00:10	58		17		
5	2015/7/9 14:00:11	68		21	1	
6	2015/7/9 14:00:12	59		18		
7	2015/7/9 14:00:13	70		23		
8 9	2015/7/9 14:00:14 2015/7/9 14:00:15	65 55		20		
9 0	2015/7/9 14:00:16	55		17		
1	2015/7/9 14:00:17	42		13		
2	2015/7/9 14:00:17	42		13		
2 3	2015/7/9 14:00:19	43		13		
4	2015/7/9 14:00:20			16		There is the data from the specified s
16 17	2015/7/9 14:59:42 2015/7/9 14:59:43	53 50		17 16	1	
8	2015/7/9 14:59:44	57	207	18	0	
9	2015/7/9 14:59:45	62	208	20	0	
0	2015/7/9 14:59:46	71	208	23	1	
1	2015/7/9 14:59:47	60		19	0	
2	2015/7/914:59:48	69		22	0	
3	2015/7/9 14:59:49	61	207	19	1	
4	2015/7/9 14:59:50	58		18	0	
5	2015/7/9 14:59:51	65		21	0	
6	2015/7/9 14:59:52	70		23	1	
7	2015/7/9 14:59:53	50		16	0	
8	2015/7/9 14:59:54	57		18	0	
9	2015/7/9 14:59:55 2015/7/9 14:59:56	61 64	208 208	19 20	1	
0	2015/7/9 14:59:56	69		20	0	
	2015/7/9 14:59:57	78		22	1	
1	2015/7/9 14:59:58	82		25	0	
11 12	2015/7/9 14:59:59	66		20	0	
10 11 12 13	2010/1/8 10:00:00	00	207	21	0	س
1 2 3 4	🔺 🔰					
1 2 3 4	^					
1 2 3 4				I		
11 12 13 14	e and time	EcoMo	nitorLight	: Up to 4 d		umn. I items * 7 circuits)

- The second of time is omitted in the Excel display. •
- The above figure is an example that changes the formatting of the cell to [m/d/yyyy h:mm:ss]. The line is not output at the time zone that does not exist in the logging data file due to the power • failure etc.
- When all time zones do not exist or the Logging data file does not exist, the report cannot be created. •

About data type

The data of the logging data file pasted to the sheet.

The data type of "current", "voltage", and "electric power" etc. is instantaneous value. The data type of "electric energy" and "pulse-count value" etc. is differential amount of accumulated values. However, the data type of "number over limit" is accumulated value.

About the data type, refer to the manual ([16. Appendix]-[List of logging items]) of Logging Unit.

6.3 Error message and remedies

Starting or changing language

Message	Causes and Remedies
Failed to read the logging item file.	There is no necessary file.
(Detaile message)	Please refer to [2.2 Processes from download to the
Failed to read the model file.	installation], and confirm the folder composition.
(Detaile message)	Please download it from the MITSUBISHI FA site again
Failed to read the model item file.	when a necessary file is not found.
(Detaile message)	

Report creating

Message	Causes and Remedies
Please select the folder for output.	Any folder to be output has not been selected.
	Please select one or more.
The selected number of folders exceeds the	The selected number of folders exceeds 31.
number of maximum sheets.	Please do not exceed 31.
Unusable for sheet name.	The folder name cannot be used for the sheet name.
(The folder name)	Please remove the check on the folder or change the folder
	name.
No data.	There is no data of a specified condition.
	Please review a specified condition at the start time and the
	span, etc.
Failed to create the report.	When you are opening the target logging data file with Excel
(Detaile message)	etc, please close it.
	Please confirm whether the selected report master file exists.
	Please confirm whether Excel is installed.
Failed to save the report file.	When you are opening the same file with Excel etc, please
(Detaile message)	close it.
	Please confirm whether the free space preservation ahead is insufficient.

Logging setting

Message	Causes and Remedies
Please set the logging items.	Any logging item is not set.
	Please set one or more.
There are some invalid logging items.	An invalid logging item (red-letter item) is set by the model
	and the phase wire. Please delete an invalid logging item or
	change to a valid logging item.
Failed to create the logging ID Folder.	Please confirm whether the folder preservation ahead is
(Detaile message)	read-only. Please confirm whether the writing lock of the SD
	memory card hangs when you specify the SD memory card.
	Writing in to a SD memory card is sometimes restricted by
	security setting of your PC and security software. Please
	write the setting file (set.csv) in a SD memory card by a
	possible PC after it's preserved in a desktop once in that case.
Failed to save the logging setting file.	When you are opening the target file (set.csv) with Excel
(Detaile message)	etc, please close it.
(Detaile message)	Please confirm whether the folder preservation ahead is
	read-only. Please confirm whether the writing lock of the SD
	memory card hangs when you specify the SD memory card.
	Writing in to a SD memory card is sometimes restricted by
	security setting of your PC and security software. Please
	write the setting file (set.csv) in a SD memory card by a
	possible PC after it's preserved in a desktop once in that
	case.
	Please confirm whether the free space preservation ahead
	is insufficient.
Failed to read the logging setting file.	When you are opening the target file (set.csv) with Excel
(Detaile message)	etc, please close it.
	The setting file (set.csv) edited with Excel etc. might come
	to format it abnormal. Please create the logging setting
	newly in that case.

6.4 Q&A

Report creating

Q	What are the extensions of Excel file that can be used to the report master file?			
Α	You can use the files with the following extensions for the report master file.			
	[.xls]	Excel 97-2003 Workbook		
	[.xlsx]	Excel Workbook		
	[.xlsm]	Excel Macro-Enabled Workbook		

Q	When I do monochrome print of a repor differences in the colors of the chart. Is t	t of samples, it becomes difficult to distinguish between the here a good way?
A	Please set the monochrome print in Exce Please set the monochrome print in Exce Please are a set the monochrome print	
	 Open [Page Setup] from [Page Layout] Example of Excel2021 	Row and column heading: button. Page order Down, then over Oger, then down Image: Constant of the constant of

■Logging setting

Q	Is it okay if there is a blank line in the middle of logging items?						
	e.g.) [Logging setting] screen						
	Detailed data logging Items Electric power Electric energy(consumption)						
Α	You can also set the Logging Unit if there is a blank line in the middle. However, a blank line is not output to the logging data file, the data is output by packing from the left. e.g.) Logging data file						
Q	Is it okay if there is a CH (circuit) that does not set even one logging item?						
Α	Even if there is a CH (circuit) that does not set any logging items, it can be set in the Logging Unit.						
	However, the Small Type Display Unit for Energy Measuring Unit (EMU4-D65) displays error number						
	"00009" for the corresponding circuit.						
	Be sure to set at least one logging item for each CH (circuit).						
Q	When setting the same logging item as more than one circuit, is there a convenient way?						
A	You can copy and paste the logging items. (P36 Useful functions to editing of the logging items)						
73							

6.5 Release notes

Version	Contents	
1.2.0	Supprt model	The model EMU4-BD1A-MB and EMU4-HD1A-MB are supported.
	System	Compatible with Windows 11 Pro (64bit), Excel 2019 (32bit/64bit) and Excel
	requirement	2021 (32bit/64bit).
	Logging item	Detailed electric energy, Detailed reactive energy and Electric energy
		conversion value are supported.
1.1.0	Supprt model	The model EMU4-FD1-MB, EMU4-AX4, and EMU4-PX4 are supported.
System		Compatible with Windows 10 Pro (32bit/64bit) and Excel 2016 (32bit).
	requirement	
	Report master	The file format is changed to the [.xlsx] form from the [.xls] form. [-2] is added
	file	to the end of the file name so that it might be easy to classify.
		e.g.) Daily report master file name
		[Old] SampleDailyReport.xls
		[New] SampleDailyReport-2.xlsx
		The kind of sheet is diversified.
	Logging item	The logging item "Pulse-count value" and "Pulse-conversion value" are
	name	renamed to "Pulse-count value 1" and "Pulse-conversion value 1".
1.0.0	The first release	version.

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Energy Measuring Unit Logging Unit Utility

Please refer to our website for service network. Our website address: https://www.mitsubishielectric.com/fa/

