

SF1001

Instruction Manual

POWER LOGGER VIEWER



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Introduction

Thank you for purchasing the HIOKI Model SF1001 Power Logger Viewer. To obtain maximum performance from the software, please read this manual first, and keep it handy for future reference.

Trademarks

Windows and Internet Explorer are either registered trademarks or trademarks of Microsoft Corporation in the United States and other countries.

Confirming Package Contents

When you receive the software, inspect it carefully to ensure that no damage occurred during shipping. If damage is evident, or if it fails to operate according to the specifications, contact your dealer or Hioki representative.



Notation

The following symbols in this manual indicate the relative importance of cautions and warnings.

	Indicates that incorrect operation presents a possibility of injury to the user or damage to the software.
NOTE	Indicates advisory items related to performance or correct operation of the software.
(p.)	Indicates the location of reference information.
*	Indicates that descriptive information is provided below.
[]	Menus, commands, dialogs, buttons in a dialog, and other names on the screen and the keys are indicated in brackets.
Windows	Unless otherwise specified, "Windows" represents Windows 7 SP1 (32-bit version/64- bit version) or later, Windows 8.1 (32-bit version/64-bit version), and Windows 10 (32-bit version/64-bit version).
Dialog	Dialog box represents a Windows dialog box.

Mouse Operation

Click	Press and quickly release the left button of the mouse.
Right-click	Press and quickly release the right button of the mouse.
Double click	Quickly click the left button of the mouse twice.
Drag	While holding down the left button of the mouse, move the mouse and then release the left button to deposit the chosen item in the desired position.

Notes on Use

- Always hold the disc by the edges, so as not to make fingerprints on the disc or scratch the printing.
- Never touch the recorded side of the disc. Do not place the disc directly on anything hard.
- Do not wet the disc with volatile alcohol or water, as there is a possibility of the label printing disappearing.
- To write on the disc label surface, use a spirit-based felt pen. Do not use a ball-point pen or hard-tipped pen, because there is a danger of scratching the surface and corrupting the data. Do not use adhesive labels.
- Do not expose the disc directly to the sun's rays, or keep it in conditions of high temperature or humidity, as there is a danger of warping, with consequent loss of data.
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Product Overview

The SF1001 Power Logger Viewer is a software application for graphing measurement data recorded using the Hioki power meter (Model PW3360, model PW3365, and model 3169) with a computer.

Chapter 1

The SF1001 has the following functions.



Time-series Graph Display

Displays measurement data in a time-series graph. When the demand in each system is measured separately, these measurements will be displayed one on top of another.



Summary Display

Displays a list of measurement data.



Daily, Weekly, and Monthly Report Display

Displays a daily, weekly, or monthly report of measurements.



Harmonic Display

Displays harmonic measurement data in the form of a graph or list.



Waveform Display

Displays waveform data in the form of a graph.



Printing

Prints out the screen image on the printer connected to the PC.



Report Printing

Create and print reports about time-series graphs; summary; daily report; harmonic graph; harmonic list; and waveform for loaded measurement data.



Data Combination

Combines up to 16 pieces of measurement data of the Hioki power meter (Model PW3360, PW3365, and 3169). The data is saved and read out as a single combined file.



NOTE Manually saved data of the 3169 Clamp on Power HiTester cannot be loaded.

Before Viewing Data Chapter 2

Install and launch the SF1001 application.

Load measurement data. (You can load measurement data saved with the PW3360, the PW3365, and the 3169 or files saved in the SF1001 file format.)

2.1 System Requirements

The computer running the SF1001 program must satisfy the following requirements.

OS	 English/ Chinese version Windows 7 SP1 (32-bit version/ 64-bit version) or later Windows 8.1 (32-bit version/ 64-bit version) Windows 10 (32-bit version/ 64-bit version)
CPU	1.0 GHz or more (2.0 GHz or more recommended)
Memory	 1.0 GHz or more (2.0 GHz or more recommended) *For Windows 7 (64-bit version), Windows 8.1 (64-bit version), and Windows 10 (64-bit version), 2.0 GB or more
Hard Disk	Free disk space of 128 MB or more (at launch)
Display	Resolution 1024 x 768 dots or more, 65536 colors or more
Disk System	CD-ROM drive (Used only for installation)
Printer	Required for screen image or report printing on the computer. Either color or monochrome can be used.

NOTE • For some models, proper operation cannot be guaranteed even when the above requirements are satisfied.

- To transfer data from a PW3360 or a PW3365 to a Computer, SD memory card is required.
- To transfer data from a 3169 to a Computer, PC card is required.

2.2 Installing the Software

Use the following procedure to install the software.

1	Set up the computer.
	Shut down all currently running applications.
2	Insert the supplied CD into the CD-ROM drive.
3	Double-click the setup file (setup.exe) contained in the "English" or "Chinese" folder.
	Installation of the SF1001 application will begin. If the SF1001 installer does not launch automatically, double-click [Start]-[Computer]-[Devices with Removable Storage]-[SF1001] on the Windows menu.
4	Follow the directions on the screen to complete the installation.
	• If other application are running it may not be possible to complete the installation. As

- If other application are running it may not be possible to complete the installation. As far as possible, close all other applications before beginning the installation. In particular, if any anti-virus software is running, it may prevent the installation, even though it is not a virus. In this case, make the appropriate settings in the anti-virus software to allow the installation to proceed.
 - Following installation, the computer may need to be restarted.

Uninstalling the Software

Use the following procedure to uninstall the software.

1	In the Windows Start menu, select [Start]-[Control Panel].
2	Click the [Programs]-[Uninstall a program] icon, to display the [Programs and Fea- tures] dialog.
3	In the [Uninstall or change a program] tab of the dialog, click on [SF1001 Power Logger Viewer] in the list of applications, and click [Uninstall].

2.3 Launching the SF1001

Use the following procedure to launching the software.



Exiting the SF1001

Select [File]-[Exit] on the menu bar.

You can also click [x] (Close) at the top right corner of the window to close the application.



2.4 Loading a Measurement-data File

This section describes how to load data recorded by the instrument. The following data files can be loaded:

Model number	File type	Contents of data	File type	Extension
PW3360	Measurement data file	Maximum value, Minimum value, Average value, Integrated value, Demand value	CSV file	.CSV
	Harmonic data file	Harmonic data	Binary file	.hrm
	Waveform data file	Waveform data	Binary file	.wui
	Measurement data file	Maximum value, Minimum value, Average value, Integrated value, Demand value	CSV file	.CSV
PW3365	Harmonic data file (Firmware version number 2.00 or later is required)	Harmonic data	Binary file	.hrm
	Waveform data file	Waveform data	Binary file	.wui
3169	Measurement data file	Instantaneous value, Maximum value, Minimum value, Average value, Integrated value, Demand value, Harmonic waveform data	CSV file	.CSV
0100	Waveform data file	Waveform data	Binary file	.wui
	Short-term-interval data file	Instantaneous value	Binary file	.bin
SF1001	Combined file	Combined file	Binary file	.da2
9625	Combined file	Combined file	Binary file	.dat
Data Logger	Recorded data file	Instantaneous value, Maximum value, Minimum value, Average value	Binary file	.hrp2

NOTE

The maximum total amount of data that can be loaded from files is as follows:
 4 GB (when there is no binary file)
 2 GB (when there is no binary file)

- 2 GB (when there is a binary file)
- The following files will be also loaded in addition to measurement data files. Model PW3360 and model PW3365: harmonic data file and waveform data file Model 3169: waveform data file
- A file cannot be loaded if it has been overwritten on a spreadsheet program.
- If a waveform data file or a short-term-interval data file is converted to a CSV file using binary CSV conversion software for the 3169, the CSV file cannot be loaded.
- Data recorded by a data logger can be loaded by opening it with the LR5000 utility software and converting it to a CSV file.

See:"Loading data logger recorded data" (p.19)

Loading Folders (Model PW3360, Model PW3365)

Data saved with Model PW3360 and PW3365 can be loaded by specifying a folder including the data. Loading a folder is not the same thing as loading all CSV files in the folder. **See:**"Loading Files" (p.12)

NOTE

- If a data file exceeds 200 MB during measurement with Model PW3360 or PW3365, it will be divided into multiple files, being saved. Because all of the files divided into multiple files inside a folder are loaded as a single file when loading a folder, the loading process may take time.
 - If there is only one CSV file inside the loaded folder, the CSV filename will be used as the data name. However, if multiple CSV files have been loaded, the data name will be derived by changing the last two characters of the CSV filename to ##.
 - If you only wish to load one CSV file from a folder, see "Loading Files" (p.12).
 - When you load a folder containing CSV files with different measurement dates or measurement start times, only the data with the earliest measurement start time will be displayed. To load multiple data with different measurement dates or measurement start times, either load separate folders that contain only the data you wish to display, or load the desired files separately using "Load (Specify folder)".
 - Filenames can be checked and changed on the "Loading the file" dialog box.

1	Click the 췀 button on the tool bar.
	Power Logger Viewer SF1001
	Eile Click , Graph Settings Help

The "Load data file" dialog will appear.

Lo	ad data file						Click
Sele [Loa	ct an empty row an ad (specific folder)]	d click "Load". button is effec	tive only in PW3360/PW336	55 data.			Load (specific folder
No.	Data name	Interval	Measurement period	Facility capacity[kW]	File name	Waveform file name	Load (specific file)
1							
3							Change data name
5							Change facility capac
6							
8							Delete
9							Delete all
10							
12							
13							
14							
16							
							ОК

The "PW3360 Load data specified folder" dialog will appear.



No.	Data name	Interval	Measurement period	Facility capacity	File name	Waveform file name	Load (specific file)
2			0621 0000 CS V				Change data name
4			Loading the file				Change facility capac
7				Gence		46 %	Delete
9							Delete all
11 12							
13							

- **NOTE** Subsequent data loading times can be reduced by saving loaded data as a combined file. For more information about how to create a combined file, see "2.6 Saving in a Combined File Under a New File Name" (p.23).
 - When loading multiple large CSV files, the application may initially display "file merging."



 Folders containing 2 GB or more data cannot be loaded. An error message will be displayed.

SF1001	×
<u> </u>	The sum total size of the measurement data file in specified folder is too large.
	ок

- If there is a folder named "HARMONIC" in the selected folder and a harmonic data file (with the extension .HRM) that has the same filename as the CSV file in that folder, the harmonic data file will also be loaded.
- If there is a folder named "AUTOWAVE" in the selected folder and a waveform data file (with the extension .WUI) that has the same filename as the CSV file in that folder, the waveform data file will also be loaded.
- · Harmonic and waveform data files cannot be loaded independently.
- If the ABC folder is loaded as part of the folder hierarchy shown below, the following files will be loaded: ABC00.CSV, ABC00.HRM, and ABC00.WUI.



Loading Files

Load data files of Model PW3360, model PW3365, or model 3169.

Power L	ogger Viewer SF1	.001								
<u>F</u> ile	Click	<u>G</u> raph <u>S</u> ettings	<u>H</u> elp							
🙆 🛄		2 4	۷							
Time series g	graph Summary Re	eport: Daily/Weekly/	Monthly Harmon	nic : List Harmonic :	Graph Waveform	Settings				
Left axis: P	ower [W] [var] [VA]		▼ Line	-	Right axis: (No dis	play)		-	Line	-
Parameter	Value Ord	der Data name	Graph Interva	al Mei 🔺	Parameter	Value	Order Data	a name Grap	oh Interva	al l
	e power Δve	04250000	1 Minut	te 201 te 201						
The "Loa	ad data file"	' dialog wil	I appear.	te 201 te 201						
The "Loa Select a	ad data file"	' dialog wil	l appear.	st and cl	ck [Loac	l (spe	cific f	ile)].		
The "Load dat	ad data file" an empty	' dialog wil	I appear.	st and cl	ck [Loac	l (spe	cific f	ile)].		
The "Load dat Select at [Load dat	ad data file" an empty row and dick "L ta file	dialog wil	1 Minut 1 Minut in the lis	st and cl	ck [Load	l (spe	cific f	ile)].		Click

Change facility capacity
Delete
Delete all

ОК

The "Open" dialog will appear.

🚾 Open			×
Look in: 🚺	FILE 1 Click	· ← 🗈 💣	
(06210000.csv		
Recent Places			
Desktop			
Computer			
Network			2 C
Network			2

E Lo	ad data file							
Sele	ct an empty row a	nd click "Load".						Load (specific fo
No.	Data name	Interval	Measurement period	Facility capacity	File name	Waveform file name	<u> </u>	Load (specific f
1								
2			0501.0000.001/				_	Change data na
3			00210000.05 V				_	
5			Loading the file					Change facility car
6						45K		
7						407	=	Doloto
8				Cance	il l			Delete
9							_	
10							_	Delete all
11								
12								
13								
15								

To load multiple files, perform this procedure after selecting a list number for each file.

5	
\mathbf{J}	

Click [OK]. The loaded file data will be displayed.

- **NOTE** Subsequent data loading times can be reduced by saving loaded data as a combined file. For more information about how to create a combined file, see "2.6 Saving in a Combined File Under a New File Name" (p.23).
 - Only files containing measurements made by the PW3660, the PW3365, or the 3169 can be loaded using the "Load files" command. Combined files cannot be loaded. When loading combined files, see "Loading a Combined File" (p.24).
 - It takes time to load large files. Load times will vary with the system configuration of the computer being used.

A rough guide for loading times is provided below:



- For model PW3360 and model PW3365, Harmonic and waveform data files cannot be loaded independently. If there is a folder named "HARMONIC" in the same folder as the selected CSV file and a harmonic data file (with the extension .HRM) that has the same filename as the CSV file in that folder, the harmonic data file will also be loaded.
- For model PW3360 and model PW3365, Waveform data files cannot be loaded independently. If there is a folder named "AUTOWAVE" in the same folder as the selected CSV file and a waveform data file (with the extension .WUI) that has the same file-name as the CSV file in that folder, the waveform data file will also be loaded.



• For Model 3169, if there is a waveform data file that is the same type as the CSV file (extension: WUI), the waveform data file will also be loaded .

If the name of the waveform data file differs from that of the measurement data file, no waveform data file can be loaded together with the loaded measurement data file.

For files that was automatically named and saved with Model 3169, if the numbers "XX" in the name of the measurement data file "69MEASXX.CSV" differs from those in the name of the waveform data file "69WAVEXX.WUI", no waveform data file can be loaded.

Harmonic and waveform data files cannot be loaded independently.

• For loading multiple data files, all of the files must have been obtained for a measurement period of one year or less.

Changing a Data Name

🚾 Power Logger Viewer SF1001				
Eile Click v Graph	<u>S</u> ettings <u>H</u> elp			
	🛃 🕁 📉 👩			
Time series graph Summary Report:	Daily/Weekly/Monthly Harmonic : List	Harmonic : Graph Waveform Setting	s	
Left axis: Power [W] [var] [VA]	▼ Line ▼	Right axis: (No display)	▼ Lin	e 💌
			, , , ,	
Parameter Value Order L	Data name Graph Interval	Mei A Parameter Value	Order Data name Graph	Interval

The "Load data file" dialog will appear.

2 Select the number of the data file you wish to change from the list and click [Change data name].

🔳 Loa	d data file							×
Selec	t an empty row and c	lick "Load".						Loa <u>d</u> (specific folder)
No.	Data name	Interval	Measurement period	Facility capacity	File name	Waveform file name		Click
1	06210000.CSV	5 Minute	2013/06/21 10:10:03	0.000	H:¥PW3360¥130	06210000.wui		
2								Change data name
3								Ghange data haine
4							- 11	Change for the second to
5							- 11	Change <u>r</u> acility capacity
7								
8							=	Delete
9								
10								Delete <u>a</u> ll
11								
12								
13							- 11	
14								
16							-	<u>o</u> k
, 10								

The data name will change only within the SF1001 application. The names of loaded files will not change. Data names can be up to 127 characters in length.

Changing the Facility Capacity Setting

You can calculate the demand factor for the active power demand value (consumption) by setting the equipment capacity*. The demand factor is displayed at the bottom of the table on the Report: Daily/ Weekly/Monthly tab. The demand factor is not displayed initially because the default setting for the equipment capacity is 0 kW.

* Total of the rated capacity (maximum value for the product of the allowable voltage and current) for each load installed on the equipment you wish to measure

1	Click the 📩 button on the tool bar.
	Power Logger Viewer SF1001
	Eile Click V Graph Settings Help
	Time series graph Summary Report: Daily/Weekly/Monthly Harmonic : List Harmonic : Graph Waveform Settings
	Left axis: Power [W] [var] [VA]
	Parameter Value Order Data name Graph Interval Mex Parameter Value Order Data name Graph Interval Mex V P : Active power Ave 04250000 1 Minute 201 1
	The "Load data file" dialog will appear.
9	Select the number of the data file you wish to change and click [Change facility
2	capacity].
	The "Change facility capacity" dialog will appear.
	Load data file
	Select an empty row and click ") oad".
	No. Data name It period Facility capacity File name Waveform file name load (specific file)
	1 06210000.CSV 5 Minute 2013/06/21 10:10:03 0.000 H:¥PW3360¥130 06210000.wui
	6
	8 9
	10 Delete all
2	Enter a capacity for each circuit, and click [OK].
3	You will only be able to change the setting for the measurement data circuits.
	Circuit (0 - 10000 kW)
	Circuit <u>4</u> : $\bigcup_{KW} (0 - 10000 \text{ kW})$
	report. 2 Click
	OK Cancel

Deleting a Data File from the List

1	Click the 合 button	on the too	l bar.				
	Power Longer Viewer SF1001						
	Eile w Graph S	ettings <u>H</u> elp					
	The "Load data file" dialo	og will appea	r.				
2	Select the number of	the data fil	e you wish	to delete	from the lis	st a	nd click [Delete].
	Load data file						×
	Select an empty row and click "Load".						Loa <u>d</u> (specific folder)
	No. Data name	nt period	Facility capacity	File name	Waveform file name	-	Load (specific file)
	1 06210000.CSV / 5 Minute 2	2013/06/21 10:10:03	. 0.000	H:#PW3360#130	06210000.wui		Change data name
	4						Chang 2 Click
	6 7 8					=	Delete
	A confirmation message	will appear					
	SE1001						
	Delete this data. OK?						
	Yes No	1					
		_					
3	Click [Yes].	• ·· ·· ·					

The selected data file from the list will be deleted.

NOTE Loaded data will not be deleted when data files on the list are deleted.

Deleting All Data Files on the Llist

Click the isotron on the tool bar. Power Logger Viewer SF1001 Elle Click w Graph Settings Help Image: Settings Help Image: Settings Help Image: Settings Help Image: Settings Help

The "Load data file" dialog will appear.

2 Click [Delete all].

Deree	t an empty row and	l click "Load".						Loa <u>d</u> (specific folder)
No.	Data name	Interval	Measurement period	Facility capacity	File name	Waveform file name	•	Load (specific file)
1	06210000.CSV	5 Minute	2013/06/21 10:10:03	0.000	H:¥PW3360¥130	06210000.wui		
2								Change data name
3							- 11	
-							- 11	Change facility canaci
6								Change Ladinty capaci
7							=	
8							-	
9								
10								Delete <u>a</u> ll
11								
11 12								

A confirmation message will appear.



3

Click [Yes].

All data files from the list will be deleted.

NOTE Loaded data will not be deleted when data files on the list are deleted.

Loading data logger recorded data

To load data recorded by a data logger with the SF1001 application, it must be opened with the LR5000 utility software and converted.

Select [Settings]-[Convert data loggers recorded data] on the menu bar. 1 Power Logger Viewer SF1001 1 Click File Print Edit View Graph Settings Help Change column width... Change display maximum number... aph | Waveform | Settings | Time series graph Summary Report: Left axis: Power [W] [var] [VA] Options... Right axis: (No display) • Value Circuit 2 Click Parameter Value Circuit Order Data r Change data time... Convert data loggers recorded data. Display tim Start time: 3/30/2015 18:38:27 +Þ Data interval Stop time: 3/30/2015 18:38:27 Display period: ~ The "Open" dialog will appear. 2 Select a data file to be loaded, and click [Open]. 🚾 Open X 😋 🕞 🗢 📙 🕨 Computer 🕨 Local Disk (C:) 🕨 LR5000 🕨 Q Organize 🔻 New folder • == • ? . Name Date modified Туре 💻 Computer 1 Click 2015 6:43 PM 20150304 File folder 🏭 Local Disk (C:) 🖳 20150304.hrp2 3/10/2015 4:22 PM LR5000 Data File LR5000 PerfLogs 퉬 Program Files 脂 Program Files (x86) PW3360 퉬 temp Users Windows 👝 Local Disk (D:) • 2 Click LR5000 record File name: 20150304.hrp2 • Open -Cancel

Specify the LR5000 representative file (.hrp2).



NOTE • "If the software is unable to convert the file (for example if the necessary files are not available), an error message will be displayed.



• If the specified LR5000 representative file (.hrp2) contains multiple sets of data recorded by the data logger, each set of data will be output into its own converted file.

2.5 Saving Data in CSV Format

Parameters displayed on the Time-series Graph screen, Summary screen, Daily/Weekly/Monthly Report screen, and Waveform screen as well as data for the displayed time period can be saved as a CSV-format file. Harmonic graph screen, Harmonic list screen, and Settings screen content cannot be saved. Saved CSV files can be used to create reports using commonly available computer spreadsheet programs.

	ewer SF1001							
<u>Eile Print E</u> dit	View Graph Settin	gs <u>H</u> elp						
	N 🙉 🖴 🖪 I d	5 📉 🔞						
Time series graph Su	mmary Report: Daily/Week	dv/Monthly Harmonic :	List Harmonic :	Graph Waveform	n Settings			
Left axis: Power [W] [[var] [VA]	▼ Line	-	Right axis: (No di	splay)		▼ Line	•
Parameter \	/alue Order Data name	Graph Interval	Me: ^	Parameter	Value Order	Data name 0	Graph Interval	Me
P : Active power	Ave 04250000.	1 Minute	201					
P : Active power	Ave 04250000.		201 -				_	
	Stop time: 2013/	04/27 00:26:00 •	Display period:			5 Minute	•	
84564[KW]	Stop time: 2013/	04/27 00:26:00	Display period:			5 Minute		
84564[kW]	Stop time: 2013/	04/27 00:26:00	Display period:			5 Minute		
04564[kW]	Stop time: 2013/	04/27 00:26:00	Display period:			5 Minute		
84564[k.W]	Stop time: 2013/1	04/27 00:26:00				5 Minute		
View (IVV)	Stop time: 2013/1			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		5 Minute		
Passed (kW)	Stop time: 2013/1		Display period:			5 Minute		
E 4564[kW]	Stop time: 2013/ 120000.00 - 100000.00 - 60000.00 - 40000.00 - 20000.00 - 20000.00 - 20000.00 - 20000.00 -	04/27 00:26:00	Display period:					

Po	1 Click ₀₀₁			
File	Print Edit View Graph Settings	Help		
\bigcirc	Load Ctrl+L	× 2		
۵.	Open combined file Ctrl+O	onthly Harmonic : List Harmonic : 0	Graph Waveform Settings	
	Save to combined file Ctrl+S	✓ Line ✓	Right axis: (No display)	▼ Line ▼
	Save the combined file 2 Click	5 Minute 2013	Parameter Value Order	Data name Graph Interval
	Save csv file	5 Minute 2013, 5 Minute 2013,		
	1 Power0000.da2	• • •	 ■ 	
	Fxit	21 10:10:03 •	•	Data interval

The "Save as CSV file" dialog appears.

2

		-					- 52
Save as (CSV file.						
	🔒 🕨 FILE			• 4 7	Search FILE		
Organize	 New fold 	der					?
Powe	r1.csv						
		1 In	put				
	File <u>n</u> ame: Pow		put				
Sa	File <u>na</u> me: Pow ve as type: CSV	ver2 file(*.csv)	put		20	lick	

NOTE Data saved as a CSV-format file cannot be loaded by the SF1001 application.

2.6 Saving in a Combined File Under a New File Name

Combine loaded data files into one file, and save the file as a new combined file. (Extension: da2)

What is a combined file?

A combined file is a single file that contains up to 16 sets of PW3360, PW3365, or 3169 measurement data. Data handling can be simplified by combining multiple data files into a single data set stored as a combined file. Additionally, since the size of the data is reduced when it is converted into a combined file, data loading times can be reduced.



NOTE Maximum data capacity that can be stored in the integrated file is 2GB.

Loading a Combined File



- When a combined file is loaded, the previously loaded data will be deleted.
 - Multiple combined files cannot be loaded at the same time. To load multiple files, you
 must load one combined file and then load the remaining data as CSV files.

Saving a Combined File

Click red on the tool bar to save the combined file (by overwriting).

ſ	🚾 Power	⁻ Logger	r Viewer SF1001) <mark>x</mark>
l	File Pri	rint 🦵	Click	Settings	Help							
l	🙆 🛄		D & A	い (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	<u>×</u> 2							
l	Time series	es gra	Save (Ctrl+S)	ly/Weekly/M	onthly Harr	monic : List	Harmonic : (Graph Waveform S	Settings			
	Left axis:	Pov	Save combined fi	le	Line	•		Right axis: (No disp	olay)	▼ Line	-	

2.7 Settings at Startup of the SF1001

This section describes how to set whether to load the last files in use or revert the application to its default state when launched. By default, neither option is checked. Please set as necessary.

1	Select [Settings]-[Options] on the menu bar.		
	Power Logger Viewer SF1001		
	File Print Edit View Graph Settings Help	_	
	Change column width		
	Time series graph Summary Report: D. Chan Long the chan ber	Vaveform Settings	
	Left axis: Power [W] [var] [VA] Options	axis: (No display)	•
	The "Open" dialog will appear.		
•	Display the [Other] tab and select one of the	chackboxac	
2	Display the [Other] tab and select one of the		
	Option 1 Click		
	Display unit Divided by time period Other		
	Change the background color		
	Change color		
	Graph display interval:		
	Faster Slower		
	Display the time down to seconds		
	Display the time down to milli-seconds		
	✓ Load previous file when starting		
	Start with default settings at the next restart		
	OK Cancel		

Click [OK].

To discard changes, click [Cancel].

- **NOTE** If "Start with default settings at the next restart" is checked, "Load previous file when starting" is ignored.
 - The "Load previous file when starting" will take effect the next time the application is launched. If the location of the files has changed, nothing will be loaded.
 - The "Start with default settings at the next restart" will only take effect the next time the application is launched.
 - Reverting the application to its default state will have the effect of deselecting both checkboxes.

Changing the Date of Measurement Data 2.8

This section describes how to change the measurement date and time for data saved by the PW3360 or PW3365.

- · The measurement date and time cannot be changed for measurement data saved by the 3168 or NOTE 3169.
 - · The measurement date and time can be changed for measurement data files and harmonic data files. The measurement date and time cannot be changed for waveform data files.

1	Select [Settings]-[Change data time] on the menu bar.
	Power Logger Viewer SF1001
	File Print Edit View Graph Settings Help
	🖒 🛄 🔚 🗈 🚘 🕂 Change column width
	Time series graph Summary Report: Change display maximum number aph Waveform Settings
	Left axis: Power [W] [var] [VA] Options 2 Click ay)
	Parameter Value Circuit Change data time Parameter Value Circuit Order Data name Graph Interva
	Convert data loggers recorded data
	Display time Start time: 3/30/2015 18:38:27 Data interval
	The "Chenge data itme" dialog appears.
2	Click [Select file].
	Change data time
	File name
	Select file
	File contents (The head of 20 lines) Settings (Meas. start time)
	Base time

The "Open" dialog appears.

M Open		-	
Computer > l	ocal Disk (C:)	✓ Search 14032700	
Organize 🔻 New folder		:= 🔻	
Computer Local Disk (C:) LR5000 PerfLogs Program Files Program Files (x86) PW3360 L4032700 AUTOWAVE HARMONIC	 Name ▲ AUTOWAVE ▲ HARMONIC ○ 03270000.CSV ○ 03270001.CSV 	Date modified 3/30/2015 4:50 PM :50 PM 3/27/2014 7:25 AM 3/27/2014 9:58 AM	Type File folde File folde CSV File CSV File
Je temp File <u>n</u> ame:	• • • 03270000.CSV	Measurem 2 Cli	ck

Specify a measurement data file (.csv).

			×
File name			
C:\PW3360\14032700\03270	000.CSV		Select file
File contents (The head of 20	lines)	Settings (Meas. start time)	
01: ^h HIOKI PW3360(Ver2.03) 02: [*] FOLDER, [*] ,14032700 03: [*] WIRING [*] ,1P3W+1 04: [*] OPERATION [*] ,RMS 05: [*] FREQUENCY [*] ,60Hz 06: [*] THD [*] ,THD-F 07: [*] INTERVAL [*] ,2sec 08: [*] U RANGE [*] ,500A,50A 10: [*] SENSOR [*] ,9661(500A),96 11: [*] VT(PT) [*] ,1 12: [*] CT [*] ,0001.000,1 13: [*] PULSE [*] ,001.000,1 14: [*] ENERGY [*] COST [*] ,0010.00 15: 16:2014-03-27 01:02:00,571 17:Date,Etime,Status,Freq_, var),02_Win[Var],02_Win[Var] 18: 2014-03-27 01:02:00 19:2014-03-27 01:02:00 19:2014-03-0	",S/N. 120899997 i94(5A) YEN ART Avg[Hz],U1_Avg[V],Ufnd1_Avg[\ J,PF1_Min,PF2_Min,PF_Min,I3_M 00:00:02,000000000,60.047E+00, 20.0005_0002_00005	Base time 2014 / 3 / 27 1 Revised time 2014 / 3 / 27 1 : margin	Input
Meas. stort time 2014/03/2	7 01:02:00		Close
51001			
Measurement Change file is d	time of the chosen data is c butput by a designated fold OK	hanged. er. Cancel	
Click [OK] to start c A message will be disp	time of the chosen data is c output by a designated fold OK	hanged. er. Cancel	
Click [OK] to start c A message will be disp	time of the chosen data is control of the chosen data is control of the designated fold	hanged. er. Cancel	
Click [OK] to start c A message will be disp	time of the chosen data is c butput by a designated fold OK	hanged. er. Cancel	Select file
Click [OK] to start c A message will be disp File name C:\PW3360\14032700\032700 File contents (The head of 20) 01:"httoKt PW3360(ver2.03)" 02:"FOLDER",14032700 03:"VIRING", IP3W+1 04:"0PERATION",RMS	time of the chosen data is contput by a designated fold OK ONVerting the file layed while the file i boo.csv ines) (S/N. 120899997	hanged. er. Cancel	Select file 2 : 0 Select C Revised time

If there is a harmonic data file (.hrm) corresponding to the measurement data file (.csv) that you selected, it will be converted as well.

6 A message will be displayed when the conversion is complete. Click [OK].



The converted file will be output into a new folder created with the name "ConvertXX" (where XX indicates an automatically allocated value from 00 to 99) in the same folder as the specified measurement data file (.csv).

NOTE • A warning message will be displayed if you attempt to load a file other than a measurement data file from the PW3360 or PW3365.



• Specify either "Revised time" or "margin" as the change basis.

Base time	
2014 / 3 / 27 1 : 2 : 0	Select
Revised time	Revised time
2014 / 3 / 27 13 : 2 : 0	C margin
margin	
forward v 0 day 12:0:0	Make file
Convert all files in the folder	
Settings (Meas. start time)	
Settings (Meas. start time)	
Settings (Meas, start time) Base time 2014 / 3 / 27 1 . 2 : 0	Select
Settings (Meas. start time) Base time $2014 \ / \ 3 \ / \ 27 \ 1 \ : \ 2 \ : \ 0$	Select C Revised time
Settings (Mess. start time) Base time 2014 / 3 / 27 1 : 2 0 Revised time	Select C Revised time
Settings (Meas. start time) Base time 2014 / 3 / 27 1 : 2 : 0 Revised time 2014 / 3 / 27 13 : 2 : 0	Select C Revised time G margin
Settings (Meas. start time) Base time 2014 / 3 / 27 1 : 2 : 0 Revised time 2014 / 3 / 27 13 : 2 : 0 margin	Select C Revised time (margin

• To convert all measurement data files in the folder in which the specified measurement data file is located, select the [Convert files in folder] checkbox and click [Make file].

Convert all files in the folder
Screen Configuration Chapter 3

3.1 Screens

The SF1001 application consists of seven screens. Click the tabs on the main screen to switch among the screens.

E F	Power Logger Viewer SF1	001								• X
Eile	le <u>P</u> rint <u>E</u> dit <u>V</u> iew <u>G</u>	araph <u>S</u> etting	s <u>H</u> elp							
0	mensa	🛋 🖪 L ZIA								
Tim	ne series graph Summary Re	port: Daily/Weekly	/Monthly Harmonic	: List Harmonic :	Graph Waveform	n Settings				
Left	tt axis: Power [W] [var] [VA]		▼ Line	<u>•</u>	Right axis: (No di	splay)		▼ Lin	• •]
Pa	arameter Value Ord	er Data name	Graph Interval	Mei 🔺	Parameter	Value Ord	er Data name	Graph	Interval	Mei 🔺
	P : Active power Ave	04250000	1 Minute	201						
	P : Active power Ave	04250000	1 Minute	201						
	P : Active nower Ave	04250000	1 Minute	201	4					
				r						,
	D	isplay time								
	St	art time: 2013/04	/26 05:06:00	•		•	Data interval			
	St	op time: 2013/04	/27 00:26:00 *	Display period:			5 Minute	•		

Screen name	Contents	For more information
Time-series Graph Screen	Displays a time-series graph of selected data	"Chapter 4 Displaying a Time-series Graph" (p.35)
Summary Screen	Displays a list of selected data	"Chapter 5 Displaying Summary" (p.49)
Daily, Weekly, and Monthly report Screen	Displays a daily, weekly, or monthly report of demand data	"Chapter 6 Displaying the Report: Daily/ Weekly/ Monthly" (p.59)
Harmonic List Screen	Displays a list of harmonic measurement data	"Chapter 7 Displaying a Harmonic List" (p.73)
Harmonic Graphic Screen	Displays a graph of harmonic measure- ment data	"Chapter 8 Displaying a Harmonic Graph" (p.79)
Waveform Screen	Displays a graph of waveform data	"Chapter 9 Displaying Measurement Data Wave- forms" (p.87)
Setting Screen	Displays major setting information	"Chapter 10 Displaying Settings for Measurement Data" (p.95)

3.2 Common Interface Elements and Functionality



Status bar

Displays the time during cursor measurement, explanations of the menu bar or tool bar, and the "Loading" message.

Menu Bar

The menu bar has the following menu options.

	Menu	Contents
File	Load	Load a data file.
	Open combined file	Open a combined file.
	Save to combined file	Save a combined file.
	Save the combined file as	Save in a combined file under a new filename.
	Save csv file	Save the data of the displayed measurement item in CSV format.
	Recently opened combined file	Display a list of the combined files worked on last.
	Exit	Exit the SF1001.
Print	Print	Print the currently displayed screen.
	Print preview	Display a print preview of the currently displayed screen.
	Report printing	Print a report for the set period of time.
	Header settings	Set the logo and title to use when printing reports as well as the comments to display.
	Printer settings	Configure printer settings.
Edit	Сору	Copy the currently displayed screen to the clipboard.
View	Toolbars	Set whether to display the tool bar.
	Tool button	Change the button size and set whether to display button labels.
Graph	Change vertical axis settings	Display the "Vertical axis setting" dialog for a graph.
Settings	Change column width	Change the column width in the list display.
	Change display maximum number	Change the maximum number of display items.
	Options	Display the "Options" dialog box for setting the display units, and other parameters (background color for graphs, rendering interval, and startup state).
	Change data time	Change the data's measurement date and time.
	Convert data logger recorded data	Convert and output data recorded by a data logger so that it can be opened by the SF1001 application.
Help	About	Display version information.
	Open help file	Open the user manual.

34 *3.2 Common Interface Elements and Functionality*



Pasting to the Clipboard

Click the button, or select [Edit]-[Copy] on the menu bar.

The currently displayed screen can be pasted to the clipboard and worked on using another program, such as a word-processing program.



Display a time-series graph of selected data. Click the "Time-series graph" tab to display.



4.1 Select Data Items and Graph type to Display

Select a data item for each of the left and right axes of the graph. Select a graph type (line, bar, and stacked bar graphs) for each axis. Stacked bar graphs are available for demand and demand value (excluding the power factor) only.

Power Logger Viewer SF1001							
Eile Print Edit View Graph Settings Help							
Left axis: Power [W] [var] [VA]	▼ Line ▼						
Parameter Value Order Data name Graph Interval Meas Parameter Value Order Data name G ✓ P : Active power Ave 04250000 1 Minute 2013 ✓ U1 : Voltage Ave 04250000 – 0 U1 : Voltage Ave 04250000 – □ <	iraph Interval Meas 1 Minute 2013 1 Minute 2013 1 Minute 2013 1 Minute 2013						
Display time Start time: 2013/04/26 03:29:00 • • Data interval Stop time: 2013/04/26 22:14:00 • Display period: • •	·						
56170[kW] 120000.00	- 7200.00 6146[√]						
100000.00	- 6000.00						
	- 4800.00						
	- 3600.00						
	- 2400.00						
	- 1200.00						
0.00 04/25 04/25 04/25 04/25 04/25 04/25 04/25 04/25 04/25 04/25	00.0						
03:29:00 05:29:00 07:29:00 09:29:00 11:29:00 13:29:00 15:29:00 17:29:00 19:29:00 21:29:00							
Power 2013/04/26 08:29:00 Ready	ـــــ ۱۱.						

4.2 Select Detail Items

Select the checkbox for the items you wish to graph.

Power Logger Viewer SF1001		
File Print Edit View Graph Settings Help		
🙆 🛄 🔚 📭 名 🖴 🗣 🐂 🐚 😰		
Time series graph Summary Report: Daily/Weekly/Monthly Harmonic : List Harmonic : Graph Waveform Settings		
Left axis: Harmonic level current [A]	Right axis: Voltage [V]	▼ Line
Parameter Value Circuit Order Data name Graph Interval Measurement File name Display name	Parameter Value Circuit Order	Data name Graph Inte
VLVL_I1: Harm Ave 1 1 69MEAS0 1 Minute 4/7/2014 13:4\69MEAS LVL_I1 1st Orc	U1: Voltage Ave	69MEAS0 1 Mi
(1) (2) (3) (4) (5) (6) (7) (8) (9) (10)	U1: Voltage Ave	69MEAS0 — 1 Mi

Check boxes

(1) Parameter

Check the box of each item to be displayed.

Click (1) on the parameter of an item, and a list of selectable parameters will appear. Select an item to display from the list.

(2) Value

Click (2) on the value of an item, and a list of selectable data types (instantaneous, average, maximum, and minimum) will appear. Select a data type from the list.

If the loaded data contains only average values, you will only be able to select average values as the data type. You will not be able to select electrical energy, demand quantity, demand value, pulse input value, or electricity charges.

(3) Circuit

Click (3), and the selectable circuit numbers will be displayed. Select a circuit number to be displayed.

(4) Order

Click (4) on the value of an item, and a list of selectable harmonic data degree will appear. Select the order to display.

(5) Data name

Click (5) on the data name, and a list of selectable data names will appear. Select the name of the data to be displayed.

4.2 Select Detail Items

(6) Graph

Click (6) on the graph, and the "Change graph format" dialog will appear.

This box allows the line color, line style, line width, frame of bar graph, marker color, marker type, and marker size to be set.

Line styles can be changed only when line width is set to 1.

Change graph format			<u>ک</u>
Display example			
Graph			
	Line <u>s</u> tyle::	Line <u>w</u> idth:	
Add frame to bargraph	E	1	
_ Marker			
Change color	Marker type: No display Dircle Square Triangle X	Marker size:	
OK	Cancel	Apply	

(7) Interval

Display the measurement interval of the data to be loaded.

(8) Measurement period

Display the measurement period of the data to be loaded.

(9) File name

Display the file name of the data to be loaded.

(10) Display name

Set the name of each display item to be used in printout.

Click (10) on the display name, and the "Display name" dialog will appear.

The display name setting applies to time-series graph screen copies and when printing.

Display name	
Create setting manually	 Check to set the display name of each item separately.
Common display	Select and enter a symbol from the symbol list
Independent display	You may also enter any desired character.
Display U112th Order[V]	
Overview of marking %D Data name	
%V Average value, maximum value, minimum value	
%I, %i Parameter(U1 etc)	
%U, %u Unit	
%0, %0 Order	
%C, %c Circuit	
OK Cancel	

4.3 Set Data Interval for the Displayed Data

This section describes how to set the data interval to determine the interval time for the data being displayed.

Power Logger Viewer SF1001								
File Print Edit View Graph Settings Help								
The series graph Summary Report: Daily/Weeky/Monthly Harmonic : List Harmonic : Graph Waveform Settings								
Left axis: Power [W] [var] [VA]								
Parameter Value Order Data name Graph Interval Meas Parameter Value Order	Data name Graph Interval Meas							
✓ P: Active power Ave 04250000 1 Minute 2013/ ✓ U1: Voltage Ave D: Active power Ave 04250000 1 Minute 2013/ ✓ U1: Voltage Ave	04250000 1 Minute 2013, 2012							
P : Active power Ave 04250000 I Minute 2013 III : Voltage Ave P : Active power Ave 04250000 1 Minute 2013 III : Voltage Ave	04250000 1 Minute 2013							
€ ₩ ▶ € ₩	Þ							
Display time Start time: 2013/04/26 05:59:00	Data interval							
	5 Minute							
Stop time: 2013/04/26 23:09:00 Display period:	1 Minute							
	2 Minute							
88126[kW] 120000.00	10 Minute 7200.00 6163[V]							
100000.00	20 Minute = 6000.00							
	30 Minute 1 Hour							
	2 Hour 4800.00							
	4Hour E							
	8 Hour 3600.00							
	\$ T							
	2400.00							
20000.00	1200.00							
	000							
04/25 04/25 04/25 04/26	04/26 D 21:59:00							
Power 2013/04/26 10:19:00 Ready								



- An interval smaller than the interval of the loaded data cannot be set.
 - When multiple pieces of data have been loaded, a larger interval will be used.
 - If the data interval is set to other than an integral multiple of the measurement interval, the display may not show the actual data.

4.4 Setting the Graph Display Start and End Time and Date

This section describes how to set the start and end times for the graph display.



NOTE If the display start time is set to a time other than (measurement start time + the displayed time) will differ from the actual time. Thus, measurements made immediately before the displayed time of each interval will be displayed as made at the actual time.

4.5 Move Display Range

The display range may be changed by moving the scroll bar.



NOTE If the graph renders slowly, change the graph rendering interval under [Option]-[Other]-[Graph display interval].

Option
Display unit Divided by time period Other
I ← Change the background color
Change color
Graph display intervention
Faster Slower
✓ Display the time down to seconds
Display the time down to milli-seconds
Load previous file when starting
Start with default settings at the next restart
OK Cancel

4.6 Set Display Period

The display period may be changed by moving the slider.



NOTE

- The maximum number of graph data points that can be displayed on a single screen can be changed under [Settings]-[Change display maximum number].
 See:"4.9 Changing the Maximum Number of Display Items" (p.45)
 - The data interval, display times, and display period are linked to the Summary screen settings.
 - Up to 10,000 data points can be displayed on the graph. Depending on the maximum number of display items and data interval settings, it may not be possible to simultaneously display the graph start and end times.

4.7 Displaying the Value at the Cursor Position

Click in the graph display area, and the cursor will appear. The measurement of the point at which the cursor is located will be displayed. The cursor can also be moved using the \leftarrow and \rightarrow keys on the keyboard. To hide the cursor, click anywhere outside the graph display area.



4.8 Set Vertical Axis

Click the son the tool bar. Image: Power Logger Viewer SF1001 Elle Print Edit View Graph Settings Her Click Image: Power Logger Viewer SF1001

The "Vertical axis settings" dialog will appear.



3 Click the [OK].

Parameters	Description
Left axis, Right axis	Changes the upper limit value (Max) and lower limit value (Min) for the vertical axis. (These values are usually set automatically.) The values can also be changed using the vertical slider.
Grid	Show or hide the grid line. Set the color and line style.
Reference Value	Show or hide the reference value. Set the value, color, and line style.

NOTE The grid color of the time axis is determined by the grid color of the left axis.

4.9 Changing the Maximum Number of Display Items

Set the maximum displayable number of items along the time axis.

1 Select [Settings]-[Change display maximum number] on the menu bar. 1 Click Power Logger Viewer SF1001 File Print Edit View Graph Settings Help 2 Click 🖒 🛄 🔚 🐚 🗟 🔒 🛛 🕂 Change column width... Change display maximum number... Time series graph Summary Report: Di Vaveform Settings Left axis: Power [W] [var] [VA] axis: Voltage [V] Options... ▼ Line • The "Display maximum number" dialog will appear. 2 Set the maximum number of display items on the graph as necessary. × Display maximum number Input the new maximum display number. (10 - 10000) Display maximum number : 336 Note 1) Changes take effect upon the next restart. Note 2) Increasing the number of displays will slow down drawing and scroll speeds. OK Cancel This setting will also be applied to the number of Summary display items. 3 Click the [OK].

- **NOTE** The setting will take effect the next time the application is launched.
 - By default, 336 data points (7 days' of data with a 30 min. recording interval) are shown.

4.10 Change Display Unit

	Power Logger Viewer SF1001 1 Click File Print Edit View Graph Settings Help	
	Change column width	
	Time series graph Summary Report: D. Change disp 2 Click Vaveform Settings	
	Left axis: Power [W] [var] [VA] Options	<u> </u>
2	Deselect the [Display by the number of digits in default setting.] checkbox on the " play unit" tab.	ʻDis
	OK Cancel	
	Selecting this checkbox causes data to be displayed using the number of measurement of digits, without regard to the number of decimal places setting.	data
_	Set the display unit for measurement value, and the number of decimals	

4.11 Change Background Color

1	Select [Settings]-[Options] on the menu bar.					
	Power Logger Viewer SF1001					
	File Print Edit View Graph Settings Help					
	Time series graph Summary Report: D. Change Change er	Vaveform Settings				
	Left axis: Power [W] [var] [VA] Options	axis: (No display)				
~	Option 1 Click Xsplay unit Divided by time period Otf - Image Color Image Color Image Color Image Color Image Color	Cancel				
	The "Color" dialog will appear.					
3	Select a background color.					
	Color 1 Select					
	Basic colors:					

<u>R</u>ed: 235

Green: 252

Blue: 251

Hu<u>e</u>: 118

<u>Sat:</u> 177

Lum: 229

Add to Custom Colors

ColorlSolid



Click the [OK].

Custom colors

ОК

2 Click

Cancel

- **NOTE** The graph background color applies only to the SF1001 graph display and screen copies.
 - White is used as the graph background color during screen and report printing.

4.12 Set time display down to seconds or lower digit

Set whether to display the time down to seconds and milliseconds. Configure this setting as appropriate.

The setting also applies to the time displays in the daily, weekly, and monthly reports.



NOTE When the data saved with Model 3196 with the short-term interval set to "Full wave" are displayed with the data interval set to "Full wave", they are displayed down to not milliseconds but seconds.

Displaying Summary

Chapter 5

Display a list of numerical values of selected data. Click the "Summary" tab to display.



Screen scrolling(p.56)

NOTE

Invalid data is displayed as a blank.

5.1 Select Data Items to Display

Choose up to 16 data items to display and select their checkboxes.

🚾 Power Logger Viewer SF1001							_ _ ×
File Print Edit View Graph Setting	js Help						
🛆 🛄 🗏 🖒 🛯 🕾 🛆 🖳 🛉	• Îx 🛛 🖸						
Time series graph Summary Report: Daily/Week	ly/Monthly Harn	nonic : List Ha	rmonic : Gra	aph Waveform Settings			
Parameter Value	Circuit Order	Data name	Interval	Measurement period	File name	Display name	A
✓ LVL_P : Harmonic level power [Average value	1 1	TEST.CSV	30 Minute	4/15/2014 14:47:02	¥16_30m.CSV	LVL_P 1st Order[kW]	
☑ LVL_P : Harmonic level power Average value	1 3	TEST.CSV	30 Minute	4/15/2014 14:47:02	¥16_30m.CSV	LVL_P 3rd Order[kW]	=
✓ U1 : Voltage RMS value CH1 Average value		TEST.CSV	30 Minute	4/15/2014 14:47:02	¥16_30m.CSV	U1[V]	
✓ I1 : Current RMS value CH1 Average value	1	TEST.CSV	30 Minute	4/15/2014 14:47:02	¥16_30m.CSV	I1[A]	
☑ I2 : Current RMS value CH2 Average value	1	TEST.CSV	30 Minute	4/15/2014 14:47:02	¥16_30m.CSV	12[A]	
I1: Current RMS value CH1 Average value	2	TEST.CSV	30 Minute	4/15/2014 14:47:02	¥16_30m.CSV	11[A]	
(1) (2) (3) (4)	(5)	(6)	(7)	(8)	(9)	

Check boxes

(1) Parameters

Check the box of each item to be displayed.

Click (1) on the parameter of an item, and a list of selectable parameters will appear. Select an item to display from the list.

(2) Value

Click (2) on the value of an item, and a list of selectable data types (instantaneous, average, maximum, and minimum) will appear. Select a data type from the list.

If the loaded data contains only average values, you will only be able to select average values as the data type. You will not be able to select electrical energy, demand quantity, demand value, pulse input value, or electricity charges.

(3) Circuit

Click (3), and the selectable circuit numbers will be displayed. Select a circuit number to be displayed.

(4) Order

Click (4) on the value of an item, and a list of selectable harmonic data degree will appear. Select the order to display.

(5) Data name

Click (5) on the data name, and a list of selectable data names will appear. Select the name of the data to be displayed.

(6) Interval

Display the measurement interval of the data to be loaded.

(7) Measurement period

Display the measurement period of the data to be loaded.

(8) File name

Display the file name of the data to be loaded.

(9) Display name

Set the name of each display item to be used in printout.

Click (9) on the display name, and the "Display name" dialog will appear.

The display name setting applies to time-series graph screen copies and when printing.



NOTE

As for power factor and displacement power factor averages taken over the period, simple average values are calculated.

5.2 Set Data Interval for the Displayed Data

Set a data interval for the displayed data.

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	/ Line (in			⊐ (alla ⊨									
Tim	ne series gr	aph Summar	Report: Da	ily/Weekly/Mor	nthly Harmon	ic : List Harm	onic : Graph	Waveform Se	ettings				
Pi	arameter	Value	(Order Data n	ame Inte	rval	Measureme	File name	Display nar	ne			•
] U1 : Volta	ige Avera	ge value	04250	000.CSV 1 Min	nute	2013/04/25	¥Power00	00 U1[V]				=
	U2 : Volta	ige Avera	ge value	04250	000.CSV 1 Mir	nute	2013/04/25	¥Power00	00 U2[V]				
	LVL_P : H	arm Avera	ge value 1	04250	000.CSV 1 Mir	nute	2013/04/25	¥Power00	00 LVL_P 1st 0	Order[kW]			
] I1 : Curre	nt R Avera	- ge value	04250	000.CSV 1 Min	nute	2013/04/25	¥Power00	00 I1[A]				
] I2 : Curre	nt R Avera	- ge value	04250	000.CSV 1 Min	nute	2013/04/25	¥Power00	00 I2[A]				
	1			0.4050				Ve ee					*
			Display	time								Clink	
			Start tim	e: 2013/04/2	6 05:59:00				•	Data interv	al	CIICK	
									1				
			Stop tim	e: 2013/04/2	6 23:09:00	Display	period:		,	5 Minute	-		
				1						1 Minute	~		
F										2 Minute			
IC	Date	Time	U1[V]	U2[V]	LVLJP1st Order[kW]	11 [A]	12[A]	13[A]	P[kW]	10 Minute		A)	-
Av	∕erage value	in the period	6150	6132	57419	2508.1	3920.6	3749.9	57264	20 Minute	=	9217	_
Ma	aximum valu	e in the neriod	6250	6268	95406	4256.1	6609.6	6274.8	95106	30 Minute		6296	
		e in alle partes											
Tin	ne of maxim	ium value	2013/04/26	2013/04/26	2013/04/26	2013/04/26	2013/04/26	2013/04/26	2013/04/26	20 1 Hour		14/26	
Tin	ne ofmaxim	ium value	2013/04/26 21:59:00	2013/04/26 21:59:00	2013/04/26 11:29:00	2013/04/26 09:49:00	2013/04/26 11:39:00	2013/04/26 11:39:00	2013/04/26 11:29:00	20 1 Hour 2 Hour 3 Hour		14/26 29:00	
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- An interval smaller than the interval of the loaded data cannot be set. When multiple pieces of data have been loaded, a larger interval will be used.
 - If the start time is changed, the end time will be automatically changed accordingly.

5.3 Set Display Time

Set the start time and stop time of data to be displayed as a summary.

Power Lo	gger Viewer	SF1001									
<u>File</u> Print	<u>E</u> dit <u>V</u> iev	w <u>G</u> raph	Settings H	<u>H</u> elp							
🙆 🛄 🖥		8 A Ç	L 🕂 🏠	s 🖸							
Time series gr	aph Summar	Y Report: Dai	ily/Weekly/Mor	nthly Harmon	ic : List Harm	onic : Graph	Waveform Se	ettings			
Parameter	Value	C	order Data n	ame Inter	rval	Measureme	File name	Display nan	ne		*
U1 : Volta	ge Avera	ge value	04250	000.CSV 1 Mir	nute	2013/04/25	¥Power00	00 U1[V]			E
U2 : Volta	ge Avera	ge value	04250	000.CSV 1 Mir	nute	2013/04/25	¥Power00	00 U2[V]			
LVL_P : H	arm Avera	ge value 1	04250	000.CSV 1 Mir	nute	2013/04/25	¥Power00	00 LVL_P 1st C	Order[kW]		
V 11 : Curre	ntR Avera	ge value ge value	04250	000.CSV 1 Mir 000.CSV 1 Mir	nute	2013/04/25 2013/04/25	¥Power00 ¥Power00	00 11[A] 00 12[A]			
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		-Display t	ime		_						
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		o top unit		0 00.21.00	•				1		
L											
Date	Time	U1[V]	U2[V]	LVLJP1st Order[kW]	11[A]	12[A]	13[A]	P[kW]	Q[kvar]	S[kVA]	_
Date Average value	Time in the period	U1[V] 6185	U2[V] 6172	LVLJP1st Order[kW] 38411	11[A] 1705.5	12[A] 2685.7	13[A] 2608.4	P[kW] 38308	Q[kvar] -11527	S[kVA] 40451	
Date Average value Maximum value	Time in the period e in the period	U1[V] 6185 6245	U2[V] 6172 6248	LVL_P1st Order[KW] 38411 75125	11[A] 1705.5 2776.3	12[A] 2685.7 5311.2	13[A] 2608.4 5194.0	P[kW] 38308 74911	Q[kvar] -11527 -10496	S[kVA] 40451 76139	_
Date Average value Maximum value Time of maxim	Time in the period e in the period um value	U1[V] 6185 6245 2013/04/25 33.24-00	U2[V] 6172 6248 2013/04/25 2024/00	LVL_P 1 st Order[kW] 38411 75125 2013/04/25 18:04:00	11 [A] 1705 5 2776 3 2013/04/25 18:24:00	12[A] 2685.7 5311.2 2013/04/25 18:24:00	13[A] 2608.4 5194.0 2013/04/25 18-24-00	P[kW] 38308 74911 2013/04/25 18:24:00	Q[kvar] -11527 -10496 2013/04/26 00:24:00	S[kVA] 40451 76139 2013/04/25	<u>*</u>
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Date Average value Maximum value Time of maxim Minimum value Time of minimi	Time in the period e in the period um value e in the period um value	U1 [V] 6185 6245 2013/04/25 22:24:00 6127 2013/04/25	U2[V] 6172 6248 2013/04/25 22:24:00 6099 2013/04/25	LVL_P1st Order[kW] 38411 75125 2013/04/25 18:24:00 15518 2013/04/26	H [A] 1705.5 2776.3 2013/04/25 18:24:00 991.3 2013/04/26	12[A] 2685.7 5311.2 2013/04/25 18:24:00 11116.8 2013/04/26	13[A] 2608.4 5194.0 2013/04/25 18:24:00 1068.3 2013/04/26	P[kW] 38308 74911 2013/04/25 18:24:00 15494 2013/04/26	Q[kvar] -11527 -10496 2013/04/26 00:24:00 -12515 2013/04/25	S[kVA] 40451 76139 2013/04/25 18:24:00 18737 2013/04/26	
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Date Average value Maximum valu Time of maxim Minimum value Time of minim 2013/04/25	Time in the period um value a in the period um value 17:24:00 19:24:00 20:24:00	U1[V] 6185 6245 2013/04/25 22:24:00 6127 2013/04/25 Start ti 6150 6127 6179	U2[V] 6172 6248 2013/04/25 22:24:00 6039 2013/04/25 19:24:00 6114 6039 6156	LVL_P 1st Order[kW] 38411 75125 2013/04/25 18:24:00 15518 2013/04/26 00:24:00 75125 53811 39451	11[A] 1705 5 2776 3 2013/04/25 18:24:00 991 3 2013/04/26 00:24:00 2776 3 1873.0 1426 8	12[A] 2685.7 5311.2 2013/04/25 18:24:00 1116.8 2013/04/26 00:24:00 5311.2 33224.2 2951.7	13[A] 2608.4 5194.0 2013/04/25 18:24:00 1068.3 2013/04/26 00:24:00 5194.0 3808.7 2853.6	P[kW] 38308 74911 2013/04/25 18:24:00 15494 2013/04/26 00:24:00 74911 53665 38318	Q[kvar] -11527 -10496 2013/04/26 00:24:00 -12515 2013/04/25 19:24:00 -12185 -12515 -11525 -11525	S[kVA] 40451 76139 2013/04/25 18:24:00 18737 2013/04/26 00:24:00 76139 55259 41137	<u> </u>
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- **NOTE** If the display start time is set to a time other than (measurement start time + an integral multiple of the measurement interval), the displayed time will differ from the actual time. Thus, measurements made immediately before the displayed time of each interval will be displayed as made at the actual time.
 - Since the number of display items is fixed, changing either the start time or the end time causes the other parameter to be shifted by the same amount.
 - Values in the [Average in the period], [Maximum value in the period], [Minimum value in the period] rows are calculated from values of each parameter acquired during the period entered under [Display time].

5.4 Move Display Range

The display range may be changed by moving the scroll bar.

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5.5 Set Display Period

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	Maximum value Time of maxim Minimum value Time of minimu 4/15/2014	in the period e in the period um value in the period um value 14:47:02 15:17:02 15:47:02 16:47:02	1,6616 1,7506 4/15/2014 16:47.02 1,6133 4/15/2014 17:47:02 1,7070 1,6140 1,6675 1,7506	-0.0143 -0.0131 4/15/2014 15:47:02 -0.0158 4/15/2014 16:47:02 -0.0137 -0.0131 -0.0139 -0.0158	100153 10153 4/15/2014 17:17:02 9351 4/15/2014 16:17:02 10023 9390 9351 10015	14345 4/15/2014 16:47:02 13:161 4/15/2014 17:17:02 14:145 13:438 13:867 14:345	14344 4/15/2014 16:47:02 13160 4/15/2014 17:17:02 14.144 13:437 13:866 14:344	274.217 286.700 4/15/2014 16:47.02 263.100 4/15/2014 17:17:02 282.800 268.700 277.300 286.700	235.11 286.200 4/15/2014 16:47.02 262.500 4/15/2014 17:17:02 282.200 268.100 276.600 286.200	1,7081 1,7081 4/15/2014 16:47.02 1,5769 4/15/2014 1,7:47:02 1,5715 1,5771 1,5313 1,7081	0,0002 4/15/2014 15:17:02 0,0000 4/15/2014 16:47:02 0,0002 0,0000 0,00001 0,0000	1,5243 1,7081 4/15/2014 16:47.02 1,5763 4/15/2014 17:47:02 1,6715 1,5731 1,6313 1,7081	
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	Maximum value Time of maximu Minimum value Time of minimu 4/15/2014	in the period is in the period in the period	1.6616 1.7506 4/15/2014 16:47:02 1.6133 4/15/2014 1.7:47:02 1.7070 1.5140 1.6675 1.7506 1.5174 1.6133	-0.01 43 -0.01 31 4/15/2014 15:47:02 -0.01 58 4/15/2014 16:47:02 -0.01 37 -0.01 37 -0.01 38 -0.01 48 -0.01 48	10015 10153 4/15/2014 17:17:02 9351 4/15/2014 16:17:02 10023 93:00 93:51 10015 10153 93:58	14345 4/15/2014 16:47:02 13161 4/15/2014 17:17:02 14:145 13:438 13:867 14:345 13:161 13:342	14.344 4/15/2014 16:47:02 13.160 4/15/2014 17:17:02 14.144 13.437 13.866 14.344 13.160 13.341	274.21) 286.700 4/15/2014 16:47.02 263.100 263.100 268.700 268.700 266.700 266.700 266.700	213 JJ1 285 200 4/15/2014 16:47:02 262 500 4/15/2014 17:17:02 282 200 268:100 276 600 286 200 286 200 266:100	1.7081 1.7081 4/15/2014 16:47:02 1.5769 4/15/2014 1.7:47:02 1.5715 1.5715 1.5711 1.5313 1.7081 1.5768	0,0002 4/15/2014 15:17:02 0,0000 4/15/2014 16:47:02 0,0002 0,0001 0,0001 0,0000 0,0000 0,0000	1 5243 1 7081 4/15/2014 16:47:02 1 5763 4/15/2014 17:47:02 1 5715 1 5715 1 5731 1 5313 1 7081 1 5788 1 5768	T
	Maximum value Time of maximu Minimum value Time of minimu 4/15/2014	in the period is in the period um value 14:47:02 15:47:02 15:47:02 15:47:02 15:47:02 17:17:02 17:17:02	1 .6616 1 .7506 4/15/2014 16:47:02 1.6133 4/15/2014 17:47:02 1.75700 1.5140 1.6675 1.7506 1.6174 1.6133	-0.0143 -0.0131 4/15/2014 15:47:02 -0.0158 4/15/2014 16:47:02 -0.0137 -0.0131 -0.0139 -0.0158 -0.0143 -0.0148	10010 10153 4/15/2014 17.17:02 99:51 4/15/2014 16:17:02 10029 99:51 10015 10015 10153 99:58	14345 4/15/2014 16:47:02 13.161 4/15/2014 17:17:02 14:145 13:438 13:867 14:345 13:161 13:342	14344 4/15/2014 16:47:02 13160 4/15/2014 17:17:02 141144 13:437 13:866 14:344 13:160 13:341	214.21) 285.700 4/15/2014 16.47.02 263.100 4/15/2014 17.17.02 282.800 265.700 285.700 285.700 265.700	273.017 285.200 4/15/2014 16:47:02 282.500 4/15/2014 17:17:02 282.200 285.100 285.200 285.200 285.200 265.100	1.7081 1.7081 4/15/2014 16:47:02 1.5763 4/15/2014 1.5715 1.5715 1.5715 1.5715 1.5713 1.5313 1.7081 1.5788 1.5769	0.0002 4/15/2014 15:17:02 0.0000 4/15/2014 16:47:02 0.0001 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1 5243 1 7081 4/15/2014 16:47:02 1 5769 4/15/2014 17:47:02 1.6715 1.5715 1.5731 1.6313 1.5788 1.5769	
	Maximum value Time of maximu Minimum value Time of minimu 4/15/2014	in the period in the period um value 14:47:02 15:17:02 15:17:02 16:47:02 16:47:02 17:17:02 17:47:02	1.5616 1.7506 4/15/2014 16:47.02 1.5133 4/15/2014 17:47.02 1.7070 1.5140 1.5676 1.5174 1.5133	-0.01 43 -0.01 31 4/15/2014 15:47:02 -0.0158 4/15/2014 16:47:02 -0.0137 -0.0131 -0.0138 -0.0158 -0.0143 -0.0148	10010 10153 4/15/2014 17.17.02 9951 4/15/2014 16:17:02 10023 9950 9951 10015 10153 9958	14345 4/15/2014 16/47:02 13.161 4/15/2014 17:17:02 14:145 13.438 13.867 14:345 13.161 13.342 Rea	13210 14344 4/15/2014 16:47:02 13160 4/15/2014 17:17:02 14144 13:437 13:866 14:344 13:160 13:341	21421) 285700 4/15/2014 16:47:02 283300 4/15/2014 17:17:02 282,800 285700 277300 286700 286700	273 b11 285 200 4/15/2014 16:47:02 282 2500 4/15/2014 17:17:02 282 200 285 100 275 600 286 200 285 200 265 100	1,7081 1,7081 4/15/2014 16:47:02 1,5763 4/15/2014 1,7:47:02 1,6715 1,5791 1,5713 1,5781 1,5788 1,5769	0.0002 4/15/2014 15:17:02 0.0000 4/15/2014 16:47:02 0.0000 0.0001 0.0001 0.0000 0.0000 0.0000	1 5243 1 7081 4/15/2014 16:47:02 15769 4/15/2014 17:47:02 1.5715 1.5715 1.5711 1.5313 1.7081 1.5769	

The display period may be changed by moving the slider.



The data interval, display times, and display period are linked to the Time series graph screen settings.

5.6 Scroll Screen

The screen can be scrolled up and down and right and left using the vertical and horizontal scroll bars.

Power Logger View	er SF1001										x	
File Print Edit V	ew Graph	Settings H	lelp									
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Time series graph Summ	ary Report: Da	ily/Weekly/Mon	thly Harmoni	c : List Harm	onic : Graph	Waveform Se	ettings					
Parameter	Value	Circui	it Order Da	ata name 🛛 In	iterval Mea	surement perio	d File nan	ne Displ	ay name		<u> </u>	
✓ LVL_P : Harmonic leve	power Average	je value 1	1 TE	EST.CSV 30) Minute 4/1	5/2014 14:47:0	2¥16_	30m.CSV LVL_	P 1st Order[kV	V]		
VL_P : Harmonic leve	power Averag	je value 1	3 TE	EST.CSV 30) Minute 4/1	5/2014 14:47:0	2¥16_	30m.CSV LVL	P 3rd Order[kV	V]	E	
🖌 🗹 U1 : Voltage RMS valu	e CH1 Averag	je value	TE	EST.CSV 30	Minute 4/1	5/2014 14:47:0	2¥16_	30m.CSV U1[V	1			
🛛 🗹 I1 : Current RMS valu	e CH1 Averag	ge value 1	TE	EST.CSV 30	0 Minute 4/19	5/2014 14:47:0	2¥16_	30m.CSV I1[A]	1			
🗹 I2 : Current RMS valu	e CH2 Avera	ge value 1	TE	EST.CSV 30	0 Minute 4/19	5/2014 14:47:0	2¥16_	30m.CSV I2[A]	1			
I1 : Current RMS valu	e CH1 Avera	ge value 2	TE	EST.CSV 30	0 Minute 4/1	5/2014 14:47:0	2¥16_	30m.CSV I1[A]				
🗹 I2 : Current RMS valu	e CH2 Avera	ge value 2	TE	EST.CSV 30	0 Minute 4/1	5/2014 14:47:0	2¥16_	30m.CSV I2[A]			-	
	-Display tin	ne										
	Start time	4/15/2014	14-47-02	1				Data interval				
	Start une	1 4/15/2014						Data Interva				
	Stop time:	4/15/2014	17:47:02	Display pe	riod:]	30 Minute	-			
		1 4 10/2011]	1.1		i í	,	_			Scroll
	L											1
Date Time	LVLP1st Order[kW]	LVLJP 3rd Order[kW]	U1[V]	11[A]	12[A]	11[A]	12[A]	P[kW]	Q[kvar]	S[KVA]		
Average value in the perio	1 1.6616	-0.01 43	100.16	13.716	13.715	274.217	273.617	1.5243	0.0001	1.5243		
Maximum value in the perio	d 1.7506	-0.0131	101.53	14.345	14.344	286.700	286.200	1.7081	0.0002	1.7081		
lime of maximum value	4/15/2014	4/15/2014	4/15/2014	4/15/2014	4/15/2014	4/15/2014	4/15/2014	4/15/2014	4/15/2014	4/15/2014		
Minimum value in the perio	d 1.6133	-0.0158	99.51	13161	13160	263100	262 500	1 5769	0.0000	1 5769		
Time of minimum value	4/15/2014	4/15/2014	4/15/2014	4/15/2014	4/15/2014	4/15/2014	4/15/2014	4/15/2014	4/15/2014	4/15/2014		
	17:47:02	16:47:02	16:17:02	17:17:02	17:17:02	17:17:02	17:17:02	17:47:02	16:47:02	17:47:02		
4/15/2014 14:47:02												
15:17:02	1.7070	-0.0137	1 00.29	1 4 1 45	14144	282.800	282.200	1.5715	0.0002	1.5715		
	_						060100	1 5 7 0 1	0.0001	1 5 7 0 1		
15:47:02	1.6140	-0.0131	99.90	13.438	13.437	268.700	208.100	1.5731	0.0001	1.5731		
15:47:02	1 51 40	-0.0131 -0.0139	99.90 99.51	13,438	13,437	268.700	276,600	1.5313	0.0001	1.5313		
15:47:02 16:17:02 16:47:02 17:17:02	1 61 40 1 6675 1 7506	-0.0131 -0.0139 -0.0158 -0.0143	99.90 99.51 100.15 101.53	13.438 13.867 14.345 13.151	13,437 13,866 14,344 13,160	268.700 277.300 286.700 263.100	276,500 276,500 286,200 252,500	1.5313 1.7081 1.5788	0.0001 0.0000 0.0000	1.5313 1.7081 1.5788		
15:47:02 16:17:02 16:47:02 17:17:02 17:17:02 17:47:02	1 51 40 1 5675 1 7506 1 5174 1 5133	-0.0131 -0.0139 -0.0158 -0.0143 -0.0148	99.90 99.51 100.15 101.53 99.58	13.438 13.867 14.345 13.161 13.342	13.437 13.866 14.344 13.160 13.341	268,700 277,300 286,700 263,100 266,700	266.100 276.500 286.200 262.500 266.100	1.5731 1.5313 1.7081 1.5788 1.57	0.0001 0.0000 0.0002	1.5731 1.5313 1.7081 1.5788 1.5769		
15:47:02 16:17:02 16:47:02 17:17:02 17:17:02	1 61 40 1 6675 1 7506 1 61 74 1 61 33	-0.0131 -0.0139 -0.0158 -0.0143 -0.0148	99.90 99.51 100.15 101.53 99.58	13,438 13,867 14,345 13,161 13,342	13,437 13,866 14,344 13,160 13,341	268,700 277,300 286,700 263,100 266,700	268.100 276.600 286.200 262.500 266.100	1 5791 1 5313 1 7081 1 5788 1 57	0.0001 0.0000 0.0002 Scroll	1 5791 1 5313 1 7081 1 5788 1 5769		
15:47:02 16:17:02 16:47:02 17:17:02 17:17:02	1 61 40 1 6675 1 7506 1 6174 1 61 33	-0.01 31 -0.01 39 -0.01 58 -0.01 43 -0.01 48	99.90 99.51 100.15 101.53 99.58	13.438 13.867 14.345 13.161 13.342	13,437 13,866 14,344 13,160 13,341	268,700 277,300 286,700 263,100 266,700	268.100 276.600 286.200 262.500 266.100	1 5731 1 5313 1 7081 1 5788 1 57	0,0001 0,0000 0,0002 Scroll	1.5791 1.5313 1.7081 1.5788 1.5769		
15:47:02 16:17:02 16:47:02 17:17:02 17:17:02	1.6140 1.6675 1.7506 1.6174 1.6133	-0.01 31 -0.01 39 -0.01 58 -0.01 43 -0.01 48	99.90 99.51 100.15 101.53 99.58	13,438 13,867 14,345 13,161 13,342	13,437 13,856 14,344 13,160 13,341	268,700 277,300 286,700 263,100 266,700	276.100 276.500 286.200 262.500 266.100	1.5731 1.5313 1.7081 1.5788 1.57	0.0001 0.0000 0.0002 Scroll	1 5731 1 5313 1 7081 1 5788 1 5769		

5.7 Change Display Unit

5

	Power Logger Viewer SF1001 I Click File Print Edit View Graph Settings Help			
	Time series graph Summary Report D	Naveform Settings		
	Left axis: Power [W] [var] [VA] Options	axis: (No display)	▼ Line	•
2	Deselect the Display by the number of digits in	default setting.1 che	ckbox on th	e "Dis
2	play unit" tab.	uoluuli oottiingij olio		
		X		
	Display unic Divided by time period Other			
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	ОК	Cancel		
	Selecting this checkbox causes data to be display	yed using the number o	of measureme	nt data
	digits, without regard to the number of decimal p	laces setting.		

5.8 Change Column width

Power Logge	r Viewer SF1001		•		
File Print E	dit View Graph S	etting 1 Click			
	n sar	🔶 📐 😰			
Time series graph	Summary Report: Daily	Wee Column width	larmonic : Graph Waveform 5	Settings	
Parameter	Value Ord	er Change column width	Measureme File name	Display name	
U1: Voltage .	Average value	04250000.CSV 1 Minute	2013/04/25¥Power0	000 U1[V]	

2	Enter the table column width and click [OK].
	Column width
	2 Click Cancel Apply

Displaying the Report: Daily/ Weekly/ Monthly Chapter 6

Display the daily, weekly, or monthly report of selected data.

Click the [Report:Daily/Weekly/Monthly] to display.

The daily report shows numerically the sum of measurements taken at intervals of 30 minutes or 1 hour for a day.

The weekly report shows numerically the sum of measurements taken at intervals of one day for a week.

The monthly report shows numerically the sum of measurements taken at intervals of one day for a month.

Average values are shown for all values except energy, demand quantity, demand value, pulse input value, and electricity charges.



When the **[Pdem+ demand active power]** parameter is selected, the active power demand value (consumption) total, average, maximum demand, maximum demand time, load rate, demand rate, and Facility capacity will be displayed.

NOTE To calculate the demand factor, you must set the equipment capacity. Selecting [File]-[Load] on the menu bar will display the "Load data file" dialog box, allowing you to set the equipment capacity for each load.

6.1 Select Data Items to Display

Select items to display and select their checkboxes.

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Γ	File Print Edit View Grap	h Setti	ngs Help						
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ľ	Time series graph Summary Rep	ort: Daily,	Weekly/Monthly	Harmonic	: List Harmonic : Graph	Waveform	Settings		
	Parameter	Circuit	Data name	Interval	Measurement period	File name	Display name	Value	
	🗹 U1 : Voltage RMS value CH1 토		69MEAS07.CSV	1 Minute	4/7/2014 13:44:45	\69MEAS07.	U1[V]	Average value	
	U2 : Voltage RMS value CH2		69MEAS07.CSV	1 Minute	4/7/2014 13:44:45	\69MEAS07.	U2[V]	Average value	=
	I1 : Current RMS value CH1	1	69MEAS07.CSV	1 Minute	4/7/2014 13:44:45	\69MEAS07.	I1[A]	Average value	
	I2 : Current RMS value CH2	1	69MEAS07.CSV	1 Minute	4/7/2014 13:44:45	\69MEAS07.	I2[A]	Average value	
	I1 : Current RMS value CH1	2	69MEAS07.CSV	1 Minute	4/7/2014 13:44:45	\69MEAS07.	I1[A]	Average value	
	I2 : Current RMS value CH2	2	69MEAS07.CSV	1 Minute	4/7/2014 13:44:45	\69MEAS07.	(7)	Average value	
_		(2)	(\mathbf{J})	(4)	(5)	(0)	(\prime)	(0)	

Check boxes

(1) Parameters

Check the box of each item to be displayed.

Click (1) on the parameter of an item, and a list of selectable parameters will appear. Select an item to display from the list.

(2) Circuit

Click (2), and the selectable circuit numbers will be displayed. Select a circuit number to be displayed.

(3) Data name

Click (3) on the data name, and a list of selectable data names will appear. Select the name of the data to be displayed.

(4) Interval

Display the measurement interval of the data.

(5) Measurement period

Display the measurement period of the data.

(6) File name

Display the file name of the data.

(7) Display name

Set the name of each display item to be used in printout. Click (7) on the display name, and the "Display name" dialog will appear. The display names are also used as form item names.



(8) Value

Display the data type.

Voltage waveform peak values and current waveform peak values display the maximum value and energy, demand quantity, demand value, pulse input value, and electricity charges display a blank and others display the average value.



As for power factor and displacement power factor averages, simple average values are calculated.

6.2 Select Demand Period

Select a demand period for the data to be displayed at either 30 minutes or 1 hour.

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	4340 6137	6205	927.1	1110.2	1067.9	14940	-10591	18336	

NOTE An interval smaller than the measurement interval of the loaded data cannot be set.

6.3 Set the Start Date

Set the start date of the daily, weekly, or monthly report to be displayed. Depending on the tabulation method, 1 day, 7 days, or 1 month from the start date is automatically displayed, so only the start date need be set.

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6.4 Move Display Range

The display range may be changed by moving the scroll bar.

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6.5 Select a Report

Select a report to be displayed from the daily, weekly, and monthly reports.

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6.6 Scroll Screen

The screen can be scrolled up and down and right and left using the vertical and horizontal scroll bars.

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Division 2	Date 2013/04/27	Time 21:00:00	Pdem+[kW] 12115	U1[V] 6247	U2[V] 6251	11[A] 895.0	12[A] 948.9	13[A] 913.6	P[kW] 12115	Q[kvar] -11620	S[kVA] 16813	^
Division 2	Date 2013/04/27	Time 21:00:00 21:30:00 22:00:00	Pdem+[kW] 12115 10736 9783	U1[V] 6247 6154 5138	U2[V] 6251 6159 5143	11[A] 895.0 879.3 851.7	12[A] 948.9 871.2 823.7	13[A] 913.5 839.1 794.7	P[kW] 12115 10736 9783	Q[kvar] -11620 -11188 -11031	S[kVA] 16813 15521 14755	
Division 2	Date 2013/04/27	Time 21:00:00 21:30:00 22:00:00 22:30:00	Pdem+[kW] 12115 10736 9783 9057	U1[V] 6247 6154 6138 6138	U2[V] 6251 6159 6143 6191	I1[A] 895.0 879.3 851.7 835.1	12[A] 948.9 871.2 823.7 785.3	13[A] 913.6 839.1 794.7 759.5	P[kW] 12115 10736 9783 9057	Q[kvar] -11620 -11188 -11031 -11112	S[kVA] 16813 15521 14765 14347	
Division 2	Date 2013/04/27	Time 21:00:00 21:30:00 22:00:00 22:30:00 23:00:00	Pdem+[kW] 12115 10736 9783 9057 9084	U1[V] 6247 6154 6138 6186 6225	U2[V] 6251 6159 6143 6191 6230	11 [A] 895.0 879.3 851.7 835.1 835.1 837.5	12[A] 948.9 871.2 823.7 785.3 785.3 786.3	13[A] 9136 8391 7947 7595 7607	P[kW] 12115 10736 9783 9057 9084	Q[kvar] -11620 -11188 -11031 -11112 -11254	S[kVA] 16813 15521 14765 14347 14474	•
Division 2	Date 2013/04/27	Time 21:00:00 21:30:00 22:00:00 22:30:00 23:00:00 23:30:00	Pdem+[kW] 12115 10736 9783 9057 9084 9050	U1[V] 6247 6154 6138 6186 6225 6161	U2[V] 6251 6159 6143 6191 6230 6166	11[A] 895.0 879.3 851.7 835.1 837.5 837.5 834.1	12[A] 948.9 871.2 823.7 785.3 785.3 785.5	13[A] 9136 8391 7947 7595 7607 7596	P[kW] 12115 10736 9783 9057 9084 9050	Q[kvar] -11620 -11188 -11031 -11112 -11254 -11045	S[kVA] 16813 15521 14765 14347 14474 14290	
Division 2	Date 2013/04/27	Time 21:00:00 21:30:00 22:00:00 22:30:00 23:00:00 23:30:00 24:00:00	Pdem+[kW] 12115 10736 9783 9057 9084 9050 9056	U1[V] 6247 6154 6138 6186 6225 6161 6181	U2[V] 6251 6159 6143 6191 6230 6166 6186	11[A] 895.0 879.3 851.7 835.1 837.5 834.1 835.3	12[A] 948.9 871.2 823.7 785.3 785.3 785.5 785.5	13[A] 913.5 839.1 794.7 759.5 760.7 759.5 759.5 759.3	P[kW] 12115 10736 9783 9057 9084 9050 9056	Q[kvar] -11620 -11188 -11031 -11112 -11254 -11045 -11103	S[kVA] 16813 15521 14765 14347 14474 14290 14337	
Division 2	Date 2013/04/27	Time 21:00:00 21:30:00 22:00:00 22:30:00 23:30:00 23:30:00 24:00:00	Pdem+[kW] 12115 10736 9783 9057 9084 9050 9056 10920	U1[V] 6247 6154 6138 6186 6225 6161 6181 6181	U2[V] 6251 6159 6143 6191 6230 6166 6186 6186	H[A] 895.0 879.3 851.7 835.1 837.5 834.1 835.3 835.3	12[A] 948.9 871.2 823.7 785.3 786.3 785.6 785.2	13[A] 9135 8391 7947 7595 7607 7595 7593 9534	P[kW] 12115 10736 9783 9084 9050 9084 9050 9056	Q[kvar] -11620 -11188 -11031 -11112 -11254 -11045 -11103 -11254	S[kVA] 16813 15521 14765 14347 14474 14290 14337 15739	<u> </u>
Division 2 Total Average Maximu	Date 2013/04/27	Time 21:00:00 21:30:00 22:00:00 22:30:00 23:30:00 23:30:00 24:00:00	Pdem+[kW] 12115 10736 9783 9057 9084 9050 9056 	U1[V] 6247 6154 6138 6186 6225 6161 6181 	U2[V] 6251 6159 6143 6191 6230 6166 6186 6218 6218 6275	11[A] 895 D 879 3 851 7 835 1 837 5 834 1 835 3 836 0 860 3 1007 8	12[A] 948.9 871.2 823.7 785.3 785.3 785.6 785.2 885.0 1141.9	13[A] 9136 8391 7947 7595 7607 7596 7593 8534 1101 8	P[kW] 12115 10736 9783 9057 9084 9050 9056 	Q[kvar] -11620 -11188 -11031 -11112 -11254 -11045 -11103 -11354 -11031	S[kVA] 16813 15521 14765 14347 14474 14290 14337 	•
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Division 2 Total Average Maximu Time of	Date 2013/04/27 013/04/27 04/27 04/27 04/27 04/27 04/27 04/27 04/27 04/27 04/27	Time 21:00:00 21:30:00 22:30:00 22:30:00 23:30:00 24:00:00 24:00:00	Pdem+[kW] 12115 10736 9783 9057 9084 9050 9056 10820 15787 2013/04/27 11.30.00 68.54	U1[V] 6247 6154 6138 6186 6225 6161 6181 6217 6273 2013/04/27 06:00:00	U2[V] 6251 6159 6143 6230 6166 6186 6218 6275 2013/04/27 06:00:00	H[A] 8950 8793 8517 8351 8375 8341 8353 8603 10078 2013/04/27 11:00:00	12[A] 948.9 871.2 823.7 785.3 786.3 785.6 785.2 885.0 1141.9 2013/04/27 11.30.00	13[A] 9136 8391 7947 7595 7607 7593 8534 11018 2013/04/27 11:30.00	P[kW] 12115 10736 3783 9057 3084 3050 3056 10820 15787 2013/04/27 11:30.00	Q[kver] -11620 -11188 -11031 -111254 -11254 -11045 -11103 -11354 -11031 2013/04/27 22:00:00	S[kVA] 16813 15521 14765 14347 14474 14290 14337 14337 15739 19714 2013/04/27 11:30:00	•
Division 2 Total Average Maximu Time of Load fa	Date 2013/04/27 2013/04/27 n demand meximum demand ctor factor	Time 21:00:00 21:30:00 22:30:00 22:30:00 23:30:00 24:00:00 24:00:00 [K] [K] [K] [K]	Pdem+[kW] 12115 10736 9783 9057 9084 9050 9056 10820 15787 2013/04/27 11:3000 68:54 15786.70	U1[V] 6247 6154 6138 6186 6225 6161 6181 6217 6273 2013/04/27 06:00:00	U2[V] 6251 6159 6143 6230 6166 6186 6218 6275 2013/04/27 06:00:00	H[A] 8950 8793 8517 8351 8375 8341 8353 8603 10078 2013/04/27 11:00:00	12[A] 948 9 871 2 823 7 785 3 785 6 785 2 885 0 1141 9 2013/04/27 11:30:00	13[A] 9136 8391 7347 7595 7607 7596 7593 8534 11018 2013/04/27 111:30:00	P[kW] 12115 10736 9783 9057 9084 9050 9056 10820 15787 2013/04/27 11:30:00	Q[kver] -11620 -11188 -11031 -11122 -11254 -11048 -11048 -11031 2013/04/27 22:00:00	S[kVA] 16813 15521 14765 14347 14474 14290 14337 15739 19714 2013/04/27 11:30:00	•
Division 2 Total Average Maximu Time of Load fa Demano Facility Time di	Date 2013/04/27 2013/04/27 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Time 21:00:00 22:00:00 22:30:00 23:30:00 23:30:00 24:00:00 [%] [%] [%] [%] [[%] [[%]	Pdem+{kW] 12115 10736 9783 9057 9084 9050 9056 10820 15787 2013/04/27 11.3000 6854 15786.70 10767 107767 107767 107767 10776 10777 10776 107777 10777 107777 107777 107777 107777 107777 107777 107777 107777 107777 107777 107777 107777 1077777 1077777 107777777 1077777777 10777777777 107777777777	Ut [V] 6247 6154 6186 6225 6161 6181 6181 6217 6273 2013/04/27 06:00:00	U2[V] 6251 6153 6143 6191 6230 6166 6186 6218 6275 2013/04/27 06:00:00	II [A] 895.0 879.3 851.7 835.1 837.5 834.1 836.3 860.3 1007.8 2013/04/27 11:00:00	12[A] 948.9 871.2 823.7 785.3 785.5 785.2 885.0 1141.9 2013/04/27 11:30:00	13[A] 913.6 839.1 794.7 759.5 760.7 759.5 759.5 759.3 853.4 1101.8 2013/04/27 11:30.00	P[kW] 12115 10736 9783 9050 9056 9056 10820 15787 2013/04/27 11:30:00	Q[kver] -11620 -11188 -11031 -11112 -11254 -11045 -111045 -111051 -11354 -11031 2013/04/27 22:00:00	S[kVA] 16813 15521 14765 14347 14474 14290 14337 15739 19714 2013/04/27 11:30:00	
Division 2 Total Average Maximu Time of Load fa Demand Facility Time din Time din	Date 2013/04/27 2013/04/27 modeling modeling modeling modeling tor factor capacity sion1(00:00:00 - 08:00:00) sision2(08:00:00 - 00:00:00)	Time 21:00:00 22:00:00 22:30:00 23:30:00 23:30:00 24:00:00 24:00:00 [KW] [KW] [KW] [KW] [KW]	Pdem*(kM) 12115 10736 9783 9084 9050 9056 0020 10820 10704/27 11:30:00 68:54 1578670 1000 76170 183563	UI[V] 6247 6154 6138 6186 6225 6161 6181 6217 6273 2013/04/27 06:00:00	U2[V] 6251 6159 6143 6230 6166 6186 6218 6276 2013/04/27 06:0000	11[A] 835.0 873.3 851.7 8351 837.5 834.1 855.3 860.3 1007.8 2013/04/27 11.0000	12[A] 948.9 871.2 823.7 7853.7 7853.7 885.0 1141.9 2013/04/27 11:3000	13[A] 913.6 839.1 759.5 760.7 759.3 853.4 1101.8 2013/04/7 11:30:00	P[kw] 12115 10736 9783 9067 9084 9050 9050 9050 10820 10820 15787 2013/04/27 11:3000	Q[kvar] -11520 -11188 -11031 -111254 -11254 -11254 -11045 -11103 2013/04/77 22:0000 Scroll	S[kVA] 16813 15521 14765 14377 14474 14290 14377 15739 19714 2013/04/27 11:3000	
Division 2 Total Average Maximu Time of Load fa Demand Facility Time div	Date 2013/04/27 2013/04/27 andemand maximum demand 2tor factor cospacity dision1(00:00:00 – 08:00:00) dision2(08:00:00 – 00:00:00)	Time 21:00:00 21:30:00 22:30:00 22:30:00 23:30:00 24:00:00 (K) (K) (K) (KM) (KM) (KM)	Pdem+[kW] 12115 10736 9783 9084 9050 9056 2013/04/27 113/000 68.84 1578670 10820 68.84 1578670 1000 76170	UI [V] 6247 6154 6138 6186 6225 6161 6181 6217 6273 2013/04/27 06:00:00	U2[V] 6251 6153 6143 6230 6166 6186 6218 6226 2013/04/27 06:00.00	11 [A] 895 D 873 3 861 7 8351 8341 835 3 860 3 1007 8 2013/04/27 11.00.00	12[A] 949 9 871 2 8237 7853 7855 7852 8850 1141 9 2013/04/27 11:3000	13[A] 913.5 8391 794.7 7595 760.7 7593 853.4 1101.8 2013/04/27 11.30.000	P(kW) 12115 10736 9783 9064 9050 9056 10820 15787 2013/04/27 11:3000	Q[kvar] -11520 -11188 -11031 -11112 -11254 -11103 -11254 -11103 -11354 -11031 2013/04/27 22:0000 Scroll	S(kVA) 16813 15521 1475 14347 14474 14474 14337 15739 19714 2013/04/27 11.3000	
Division 2 Total Average Maximu Time of Load fat Demano Facility Time div	Date 2013/04/27 2013/04/27 04/27 04/27 04/27 04/27 04/27 04/27 04/27 04/27 04/27 04/27 04/27 04/27 04/27 04/27 04/27 04/27 04/27	Time 21:00:00 21:30:00 22:30:00 22:30:00 23:30:00 24:00:00 (K) (K) (K) (KM) (KW) (KWh)	Pdem+[kM] 12115 10736 9783 9084 9060 9056 10820 15787 2013/04/27 11:3000 68.54 1578570 1000 775170 183563	Ut [V] 6247 6154 6138 6186 6225 6161 6181 6217 6273 2013/04/27 06:00:00	U2[V] 6251 6159 6143 6230 6186 6186 6218 6275 2013/04/27 06:0000	11 [A] 895 D 879 3 805 1 837 5 837 5 834 1 835 3 860 3 1007 8 2013/04/27 11:0000	12[A] 948 9 871 2 823 7 785 3 785 5 785 2 785 2 785 2 785 2 1141 9 2013/04/27 11:3000	13[A] 913.5 8391 794.7 759.5 7560.7 759.6 759.3 855.4 1101.8 2013./04/27 11:30.00	P(kw) 12115 10736 9783 9054 9050 9056 9056 10820 15787 2013/04/27 11:3000	Q[kvar] -11520 -11188 -11031 -11112 -11254 -11046 -111031 -111254 -111031 2013/04/27 22:0000 Scroll	S(kVA) 16813 15521 14745 14347 14474 14474 14474 14474 14474 14377 2013/04/27 11:3000	4
6.7 Change Display Unit

Power Logger View	er SF1001	Click			l
File Print Edit Vi	ew Graph Settings He	p			
🗋 🙆 🛄 🔚 🐚 🛯	Change	column width			
Time series graph Summa	ary Report: D. Change	2 Click	Vaveform Settings		
Left axis: Power [W] [var] [VA] Options.		axis: (No display)	✓ Line	
	L				
Display gint:	Number of digits after decimal	OK Cancel			
Selecting this	s checkbox causes	s data to be display mber of decimal p	ved using the number laces setting.	ofmeasuremer	nt d

6.8 Changing the Report Column Width

1	Click the 👬 button on the tool bar.
	Power Logger Viewer SF1001 File Print Edit View Graph Setting
	Parameter Value Order Change column width Measureme File name Display name ✓ U1: Voltage Average value 04250000.CSV 1 Minute 2013/04/25 ¥Power0000 UI/V
	The "Column width" dialog will appear.
2	Enter the table column width and click [OK].

_	Caluma usi	
	Column wid	1 Input
	2 Click	Column width: 17
	ОК	Cancel Apply

6.9 Displaying the Load Factor and Demand Factor

The load factor and demand factor can be calculated and displayed in the last row of the form for the **[Pdem+ Demand active power (consumption)]** parameter. The load factor indicates the extent of fluctuations in power demand over the tabulation interval, while the demand factor indicates the maximum power used as a percentage of the installed load equipment capacity.

If you select [Pdem+ Demand active power (consumption)] for multiple parameters, the total [Pdem+ Demand active power (consumption)] will be displayed in the last column.

Power Logger Viewer SF1001											
<u>File Print Edit View Graph</u>	n <u>S</u> ettings <u>H</u>	lelp									
Time series graph Summary Repo	ort: Daily/Weekly/	Monthly Harmonic :	List Harmonic : Grap	h Waveform Setti	ngs						
Parameter	Circuit Data	name Interval	Measurement pe	riod File name	Display name	Value	*				
Pdem+: Demand active power	. 0912	20000.CSV 1 Minute	9/12/2014 10:05	:00 \0912000	00. Pdem+:Deman.						
Pdem+: Demand active power	. 0912	20001.CSV 1 Minute	9/12/2014 10:05	i:00 \\0912000	0 Pdem+:Deman.						
U1 : Voltage RMS value CH1	0912	20000.CSV 1 Minute	9/12/2014 10:05	i:00\0912000	00. U1: Voltage RM.	Avera					
I1: Current RMS value CH1	0912	20000.CSV 1 Minute	9/12/2014 10:05	i:00\0912000	00. I1 : Current RMS	Avera	-				
	0012	00000 CEV 1 Mieute	0/10/0014 10:05	001000	0 T2 Current DMS	Avera					
Dis	splay time		r								
Sta	art time: 9/13/	2014	•		▶ Dem	and period					
Sto	op time: 9/13/	2014	• Daily report O	Weekly report O M	onthly report 11 Ho	our 💽					
		Pdomu : Domond	Pdomu : Domond	Sum of Pdom L							
Division	Tree	active power	active power	demand value of							
Division Date	Time	(consumption)[kW]	(consumption)[kW]	active power							
		0.005	0.000	(consumption)[kW]							
1 9/13/2014	22:00:00	2.225	2.222	4.44/							
	23:00:00	2.2/1	2.2/0	4.541							
Tatal	24:00:00	2.8/4	2.8/2	0.746							
Average		2 842	2 837	5.679							
Maximum demand		4 283	4 272	0.075							
Time of maximum demand		9/13/2014	9/13/2014								
		10.00.00	10.00.00								
Load factor	[%]	66.35	66.41								
Demand factor	[%]	4.28	4.27								
L downly copyonal	622.1										
Time division 1(00:00:00 - 00:00:00)	[kWh]	68.21	68.09	136.30							
Power cost 1(0.1000\$/kWh)	Reference value	6.8206	6.8091	13.6297							
L							•				
Power			Ready								

NOTE

- The calculation formula is given in "12.3 Calculation Formulas" (p.110).
 - In order to calculate demand factor, you must first set the equipment capacity. For more information about how to do so, see "Loading Folders (Model PW3360, Model PW3365)" (p.9) to "Changing the Facility Capacity Setting" (p.16).
 - Only Pdem+ parameters are added to calculate the total demand active power (consumption). Pdem+1, Pdem+2, and Pdem+3 parameters are not included.

6.10 Displaying Active Energy by Time of Day

This section describes how to set operating hours and calculate active energy by time of day. This information is displayed in the last line of the form under the [Pdem+ Demand active power (consumption)] item.

Power Logger Viewer SF1001	1 Click		
File Print Edit View Graph	Settings Help		
	Change column width		
Time series graph Summary Report: D	Change d ² Click	, r Vaveform Settings	
Left axis: Power [W] [var] [VA]	Options	axis: (No display)	▼ Line



Up to four time divisions can be set. **Example display**

Division	Date	Time	Pdem+[kW]	U1 [V]	U2 [V]	11 [A]	12 [A]	P [
1	4/27/2013	21:00:00	5.171	104.79	104.49	42.19	43.17	
		22:00:00	5.163	103.22	102.92	42.61	43.61	
2		23:00:00	5.162	104.24	103.94	42.98	43.99	
		24:00:00	5.162	103.66	103.36	43.09	44.10	
Total								
Average			5.185	104.34	104.05	43.22	44.24	
Maximum d	lemand		5.213	105.19	104.89	44.02	45.08	
Time of ma	ximum demand		4/27/2013	4/27/2013	4/27/2013	4/27/2013	4/27/2013	4/2
			12:00:00	06:00:00	06:00:00	12:00:00	12:00:00	12
Load facto	r	[%]	99.48					
Demand fa	ctor	[%]	5.21					
Facility cap	acity	[kW]	100.000					
Time division	on 1(00:00:00 - 22:00:00)	[kWh]	114.08					
Time division	on2(22:00:00 - 00:00:00)	[kWh]	10.37					
Power cost	1(0.1000\$/kWh)	Reference value	11.4079					
Power cost	:2(0.1000\$/kWh)	Reference value	1.0368					

NOTE

- Electric charges are displayed for reference purposes only. (Displayed values cannot be used for billing or to establish power use.)
- Electric charges displayed on the [Report: Daily/Weekly/Monthly] tab are calculated by multiplying the active power by the electric charge rate. This value differs from the "electric charges" parameter output by the PW3360 and PW3365.
- (Parameters outputted from the instrument are displayed on a time-series graph.)The operating system's currency symbol setting is used as the default value for the electric
 - charge currency unit.
- The default electric charge rate is \$0.1/kWh. Change the setting as necessary.

Click [OK].

3

To discard changes, click [Cancel].

6.11 Displaying Active Energy Converted into CO2 Amount

The active energy can be converted into CO2 Amount and displayed.

Power Logger Viewer SF1001	1 Click			
File Print Edit View Graph Set	ttings Help		_	
🙆 🛄 🔚 🖒 l 😂 🗐 🕀	Change column width			
Time series graph Summary Report: Di	Change d ² Click	, r	Vaveform Settings	
Left axis: Power [W] [var] [VA]	Options		axis: (No display)	▼ Line
Select the Display CO2	conversion va	lues on ti	ne [Divided by ti	me periodj tab.
Option	×			
Display unit Divided by time period Other				
Working period: 00:00:00 + 00:00:00	•	1		
─ Time Division ────────────────────────────────────				
Time Division				
- Time Division ✓ Division <u>1</u> : 08:00:00 <u>•</u> - 18:00:00				
Time Division Ivalion1: 08:00:00 Ivalion2: 18:00:00				
Time Division I✓ Division1: 08:00:00 • •				
Time Division Image: Division1: 08:00:00 Image: Division2: 18:00:00 Image: Division2: 18:00:00 Division2: 16:00:00 Division2: 16:00:00 Division2: 16:00:00 Division2: 16:00:00				
Time Division Image: Division1: 08:00:00 Image: Division2: 18:00:00 Division2: 18:00:00 Division3: 16:00:00 Division4: 00:00:00				
Time Division Image: Division1: 08:00:00 • 18:00:00 Image: Division2: 18:00:00 • 08:00:00 Division2: 16:00:00 • 08:00:00 Division2: 16:00:00 • 08:00:00 Division2: 00:00:00 • 08:00:00 Division4: 00:00:00 • 08:00:00 Image: Division4: Division4: 00:00:00 •				
Time Division Image: Division 1: 08:00:00 • • 18:00:00 Image: Division 2: 18:00:00 • • 08:00:00 Division 3: 16:00:00 • • 08:00:00 Division 4: 00:00:00 • • 08:00:00 Image: Division 4: 00:00:00 • • 08:00:00				checkbox displays
Time Division Image: Division 1: 08:00:00 Division 1: 08:00:00 Division 2: 18:00:00 Division 3: 16:00:00 Division 4: 00:00:00 Division 4: 00:00:00 Division 4: 00:00:00 Division 4: 00:00:00 Display the integrated power in each time division Display CO2 conversion value CO2 conversion rate	r r r r		— Selecting this	checkbox display

3

Click [OK].

To discard changes, click [Cancel].

NOTE

- The CO2 converted value is equivalent to the integrated active power [kWh] value multiplied by the CO2 conversion rate.
- The initial setting of the CO2 conversion rate is "0.36 kg-CO2/kWh" so that change the rate by yourself accordingly.

Displaying a Harmonic List Chapter 7

This chapter describes how to display harmonic data for a user-specified time as a list of values. The level, content percentage, and phase angle will be shown at the same time. If the loaded data does not include harmonic data, this information cannot be displayed.

Click the [Harmonic:List] tab to display the screen.

Selection of display channel (p.74)



NOTE

When the display time is the time of the beginning of the data, a blank is displayed because there is no value.

7.1 Select Data Channel to Display

Select a data channel.

Power Logger Viewer SF1001		23							
File Print Edit View Graph Settings Help									
Time series graph Summary Report: Daily/Weekly/Monthly Harmonic : List Harmonic : Graph Waveform Settings									
Parameter Value Data name Interval Measureme File name									
Harmonic data CH1 V Average value 04250000 1 Minute 2013/04/25¥Power0000.									
Harmonic data CH1 Harmonic data CH2									
Harmonic data CH3									

7.2 Select Detail Items

Select items to display.

1	Power Logger Viewer	SF1001								x
	File Print Edit View	v Graph Setting	s Help	þ						
	🛆 🛄 🗔 🖒 🖉	88854								
	Time series graph Summary	Report: Daily/Week	/Monthly	Harmonic : List	Harmonic	: Graph Waveform	Settings			
					1				 	$-\ $
	Parameter	Value	Circuit	Data name	Interval	Measurement period		File name	 	
	🖌 Harmonic data CH1 🗖	Instantaneous value	1	69MEAS07.CSV	1 Minute	4/7/2014 13:44:45 -	4/7/2014 13:48:05	¥69MEAS07.CSV		
((1) Check boxes	(2)	 (3)	(4)	(5)	 (6)		 (7)		

(1) Parameter

Check the box of each CH to be displayed. Select a CH to display from the list.

(2) Value

Click (2) on the value of an item, and a list of selectable data types (instantaneous, average, maximum, and minimum) will appear. Select a data type from the list.

If the loaded data contains only average values, you will only be able to select average values as the data type.

(3) Circuit

Click (3), and the selectable circuit numbers will be displayed. Select a circuit number to be displayed.

(4) Data name

Click (4) on the data name, and a list of selectable data names will appear. Select the name of the data to be displayed.

(5) Interval

Display the measurement interval of the data to be loaded.

(6) Measurement period

Display the measurement period of the data to be loaded.

(7) File name

Display the file name of the data to be loaded.

7.3 Setting the Display Time

Set the display time using the display time text box or scroll bar.

	Power Logger Viewer	SF1001							
	File Print Edit View	Graph Setting	s Help	1					
ļ									
	Time series graph Summary	Report: Daily/Weekly	//Monthly	Harmonic : List	Harmonic	: Graph Waveform Settings			
l						1			
e.	Parameter	Value	Circuit	Data name	Interval	Measurement period	File name		
Ľ	🖌 Harmonic data CH1 🔳	Instantaneous value	1	69MEAS07.CSV	1 Minute	4/7/2014 13:44:45 - 4/7/2014 13:48:05	¥69MEAS07.CSV		
	Display time								

7.4 Change Display Unit

Power Logger Viewer	SF1001 1 Click		
File Print Edit Viev	v Graph Settings Help		
📥 🛄 🔚 🗠 🛯	🗟 🔒 🛛 🖶 Change column width	1	
Time series graph Summar	Report: Di Change display maxii	mum number 2 Click	
Left axis: Power [W] [var] [VA] Options	axis: (No display)	Line
Deselect the [D unit" tab.	isplay the number of di	gits in default setting.] che	eckbox on the "Disp
Display unit Divided by t	ime period Other	1	
Display <u>u</u> nit:	<u>N</u> umber of digits after decimal point	:	
V	2 💌		
A	2 💌		
kW, kvar, kVA 💌	2 💌		
kWh, kvarh 💌	2 •		
Hz 💌			
Fower lactor			
*	2 -		
(unit) 💌	2 💌 * Energy cost		
^(a) 2 Deselec	2 💌 * Pulse		
Display by the numb	er of digits in default setting.		
		OK Cancel	
Selecting this digits, withou	s checkbox causes data t it regard to the number o	o be displayed using the num f decimal places setting.	ber of measurement da
Set the display	unit for measureme	nt value, and the numbe	r of decimals
out the display		in value, and the numbe	

Displaying a Harmonic Graph Chapter 8

This chapter describes how to display harmonic data for a user-specified time as a graph. A vector graph will be shown for [Harmonic phase angle power] data only. If the loaded data does not include harmonic data, this information cannot be displayed. Click the [Harmonic:Graph] tab to display the screen.



Selection of data parameter (p.80)

8.1 Select Data Items to Display

Select a data item.

Power Logger Viewer SF1001				
File Print Edit View Graph Settings Help				
🙆 🛄 📄 🗈 🕒 🖳 🐺 📐				
Time series graph Summary Report: Daily/Weekly/Mont	ly Harmonic : List Harm	onic : Graph Waveform Settings		
Harmonic level current [A]				
r arameter vaide	Circuit Data name	Interval Measurement period	File name Display name	Graph
✓ LVL_I1: Harmonic level current CH1 Average value	1 69MEAS07.CSV	1 Minute 4/7/2014 13:44:45 - 4/7	\69MEAS07. LVL_I1[A]	
Display time 4/ 7/2014 13:45:45	•	Vertical	Log axis 💌 Graph Bar	•

8.2 Select Detail Items

Select items to display.

	Power Logger Viewer SF1001									x
ſ	File Print Edit View Graph Set	tings Help								
ļ	🝅 🛄 🔚 I 🖒 i 😂 🚖 🗣									
	Time series graph Summary Report: Daily	Daily/Weekly/Monthly Harmonic : List Harmonic : Graph Waveform Settings								
	Harmonic level current [A]	•								
	Parameter	Value	Circuit	Data name	Interval	Measurement period	File name	Display name	Graph	
	🖌 LVL_I1 : Harmonic level current CH1 🗖	Average value	1	69MEAS07.CSV	1 Minute	4/7/2014 13:44:45 - 4/7	\69MEAS07.	LVL_I1[A]		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	

Check boxes

(1) Parameter

Check the box of each item to be displayed.

Click (1) on the parameter of an item, and a list of selectable parameters will appear. Select an item to display from the list.

(2) Value

Click (2) on the value of an item, and a list of selectable data types (instantaneous, average, maximum, and minimum) will appear. Select a data type from the list.

(3) Circuit

Click (3), and the selectable circuit numbers will be displayed. Select a circuit number to be displayed.

(4) Data name

Click (4) on the data name, and a list of selectable data names will appear. Select the name of the data to be displayed.

(5) Interval

Display the measurement interval of the data to be loaded.

(6) Measurement period

Display the measurement period of the data to be loaded.

(7) File name

Display the file name of the data to be loaded.

(8) Display name

Set the name of each display item to be used in printout. Click (8) on the display name, and the "Display name" dialog will appear. The display name setting applies to time-series graph screen copies and when printing.



(9) Graph

Click (9) on the graph, and the "Change graph format" dialog will appear. This box allows the line color to be set.

nge graph format	
Display e xample	
Graph	
Uftiange color I ✓ Add frame to bargraph	
Marker	
Same color to graph Change color	Marker type: Marker size: No display Circle Square Triangle X
	J

8.3 Setting the Display Time

Set the display time using the display time text box or scroll bar.

						_	
ttings Help:							
📥 🛄 🔚 📭 😂 🖴 🖳 🐨 📉 🛛 😰							
me series graph Summary Report: Daily/Weekly/Monthly Harmonic : List Harmonic : Graph Waveform Settings armonic level current [A]							
						Parameter Value Circuit Data name Interval Measurement period File name Disp	
Average value	1 69MEAS0	7.CSV 1 Minute	4/7/2014 13:44:45 - 4/7	\69MEAS07.	LVL_I1[A]		
	ettings Help I I I I I I I I I I I I I I I I I I I	ettings Help ily/Weekly/Monthly Harmonic : List Value Circuit Data name Average value 1 69MEASO:	ettings Help ily/Weekly/Monthly Harmonic : List Harmonic : Grap Value Circuit Data name Interval Average value 1 69MEAS07.CSV 1 Minute	ettings Help ily/Weekly/Monthly Harmonic : List Harmonic : Graph Waveform Settings Value Circuit Data name Interval Measurement period Average value 1 69MEAS07.CSV 1 Minute 4/7/2014 13:44:45 - 4/7	ettings Help ily/Weekly/Monthly Harmonic : List Harmonic : Graph Waveform Settings value Circuit Data name Interval Measurement period File name Average value 1 69MEAS07.CSV 1 Minute 4/7/2014 13:44:45 - 4/7\69MEAS07.	ettings Help	ettings Help L

8.4 Setting the Axis to a Linear Axis or LOG Axis

Set the horizontal axis to use either a linear axis or LOG axis when displaying harmonic levels or content percentage.

Power Logger Viewer SF1001						- 0 X
File Print Edit View Graph Se	ttings Help					
Time series graph Summary Report: Daily/	nmary Report: Daily/Weekly/Monthly Harmonic : List Harmonic : Graph Waveform Settings					
Harmonic level voltage [V]	.]					
Parameter	Value Data name	Interval	Measureme File n	name Display name	Graph	
✓ LVL_U1 : Harmonic level voltage CH1	Average value 04250000.C	W 1 Minute	2013/04/25¥P	Power0000 LVL_U1[V]		
Display time —	13/04/26 08:17:00 🔺 🖣		J	Vertical Log axis Linear axis Log axis		

8.5 Displaying the Value at the Cursor Position

Click in the graph display area, and the cursor will appear. The measurement of the point at which the cursor is located will be displayed. The cursor can also be moved using the \leftarrow and \rightarrow keys on the keyboard. To hide the cursor, click anywhere outside the graph display area.



8.6 Set Vertical Axis

1	Click the 📉 on the tool bar.	
	Power Logger Viewer SF1001	
	<u>File Print Edit View Graph Settings H</u> e Click	
	The "Vertical axis settings" dialog will appear.	

Set the vertical axis.



3 Click the [OK].

Parameters	Description
Left axis, Right axis	Changes the upper limit value (Max) and lower limit value (Min) for the vertical axis. (These values are usually set automatically.) The values can also be changed using the vertical slider.
Grid	Show or hide the grid line. Set the color and line style.
Reference Value	Show or hide the reference value. Set the value, color, and line style.

NOTE The grid color of the time axis is determined by the grid color of the left axis.

8.7 Change Display Unit

1	Select [Settings]-[Options] on the menu bar.
	Image: Click File Print Edit View Graph Settings Help
	Image: Strategy of the series graph Summary Report: D Change column width Time series graph Summary Report: D Change disp 2 Click Vaveform Settings Vaveform Settings
2	Deselect the [Display by the number of digits in default setting.] checkbox on the "Display unit" tab.
	Option Click Display ut.t Divided by time period Other Display unit Number of digits after decimal point: Image: Click V V V V A V V V A V V V A V V V A V V V A V V V A V V V A V V V A V V V A V V V A V V V V V V V Bisplay by the number of digits in default setting. OK Cancel Selecting this checkbox causes data to be displayed using the number of measurement data digits, without regard to the number of decimal places setting.
3	Set the display unit for measurement value, and the number of decimals
4	Click the [OK].

NOTE When using the LOG axis, the setting for the number of digits after the decimal point is invalid.

8.8 Change Background Color

		—
7	Select [Settings]-[Options] on the menu bar.	_
	Power Logger Viewer SF1001	
	File Print Edit View Graph Settings Help	
	Time series graph Summary Report: D. Change Prove Per Vaveform Settings	
	Left axis: Power [W] [var] [VA]	
2	Check the "Change the background color" box and click the [Change color].	
	2 Check splay unt Divided by time period Other	
	i → Change the background color	
	Change color	
	Graph display interval: 3 CIICK	
	Tester , , , , , , , , , , , , , , , , , , ,	
	□ Display the time down to milli-seconds	
	✓ Load previous file when starting	
	Start with default settings at the next restart	
	OK Cancel	
	The "Color" dialog will appear.	
2	Select a background color.	
	Color	
	Basic colors:	
	Custom colors:	
	Hue: 118 Red: 235	
	2 Click Sat: 177 Green: 252	
	Color/Sglid Lum: 229 Blue: 251	
		—
4	Click the [OK].	

- **NOTE** The graph background color applies only to the SF1001 graph display and screen copies.
 - White is used as the graph background color during screen and report printing.

Displaying Measurement Data Waveforms Chapter 9

This chapter describes how to display the voltage and current waveforms for a user-specified time. If the loaded data does not include waveform data, this information cannot be displayed. Click the [Waveform] tab to display the screen.



9.1 Selecting the Waveform Display Data

Select the data name for which to display a waveform.



9.2 Toggling the Waveform Display On and Off

Selecting the checkbox for the parameter you wish to display causes that waveform to be displayed. Checkboxes for waveforms whose parameters were not saved cannot be checked.

Power Logger Viewer SF1001
Eile Print Edit View Graph Settings Help
Time series graph Summary Report: Daily/Weekly/Monthly Harmonic : List Harmonic : Graph Waveform Settings
Data 04250000.CSV 💌
Left axis I <td< td=""></td<>
Display time

9.3 Setting the Start Time

Set the display time with the display time scroll bar.

Power Logger Viewer SF1001
Eile <u>P</u> rint <u>E</u> dit <u>V</u> iew <u>G</u> raph <u>S</u> ettings <u>H</u> elp
Time series graph Summary Report: Daily/Weekly/Monthly Harmonic : List Harmonic : Graph Waveform Settings
Data 04250000.CSV 🔹
Left axis Image: U1
Display time 2013/04/26 16:10:00 -

NOTE You cannot set the display time by entering a value directly.

9.4 Displaying the Value at the Cursor Position

Click in the graph display area, and the cursor will appear. The measurement of the point at which the cursor is located will be displayed. The cursor can also be moved using the \leftarrow and \rightarrow keys on the keyboard. To hide the cursor, click anywhere outside the graph display area.



9.5 Changing the Graph Display

Click the legend for each parameter's line and set the color, style, and thickness of the graph line and the color, type, and size of the marker on the "Change graph format" dialog box. The line style can only be changed when the line thickness is set to 1.

Change graph format		×
Display example		
Graph		
Add frame to bargraph	Line <u>s</u> tyle:	Line width:
Marker		
Same color <u>t</u> o graph	Marker type: No display Circle Square Triangle X	Marker size:
ок	Cancel	Apply

9.6 Set Vertical Axis

1 Click the is on the tool bar. Power Logger Viewer SF1001 File Print Edit View Graph Settings He Click The "Vertical axis settings" dialog will appear.

2 Set the vertical axis.

Left axis		Right axis	
Automatic		Automatic	
Max 120000		Max 7200.00	
	Reference Value		Reference Value
Min: 0.000000000	Display	Min: 0.000000	🗖 Display 🗌 🗕
Grid		Grid	Value:
Display	value: JUDUUUUUUUU	Display	10000000
Change color	Change color	Change color	Change color
Line style	Line style		Line style
Enre Style			
			^
E	E	E	E
T	T		*

Click the [OK].

Parameters	Description
Left axis, Right axis	Changes the upper limit value (Max) and lower limit value (Min) for the vertical axis. (These values are usually set automatically.) The values can also be changed using the vertical slider.
Grid	Show or hide the grid line. Set the color and line style.
Reference Value	Show or hide the reference value. Set the value, color, and line style.

NOTE The grid color of the time axis is determined by the grid color of the left axis.

9.7 Change Display Unit

1	Select [Settings]-[Options] on the menu bar.	
	Power Logger Viewer SF1001	
	File Print Edit View Graph Settings Help	
	Change column width	
	Left axis: Power [W] [var] [VA] Options	Waveform Settings axis: (No display)
2	Set the display unit for measurement value	e, and the number of decimals
3	Click the [OK].	

9.8 Change Background Color

	Power Logger Viewer SF1001			
	File Print Edit View Graph Settings Help			
	Change column width			
	Time series graph Summary Report: D. Change Z CIICK er	Vaveform Settings		
	Left axis: Power [W] [var] [VA] Options	axis: (No display)	▼ Line	•
2	Check the "Change the background color" by Option 1 Click 2 Check play unt Divided by time period the Change the background color Change the background color Change the background color Change color Change the background color Change color Change the background color Change the background color Change the background color Change color Change the background color	ox and click the [Cr	nange color].	
3	Select a background color.			
	Def 2 Click ColorlSglid Lum: 229 Blue: 251 OK Cancel Add to Custom Colors Add to Custom Colors Add to Custom Colors			

ies.White is used as the graph background color during screen and report printing.

Displaying Settings for Measurement Data Chapter 10

Click the "Settings" tab to display.

Power Logger Viewer SE1001		
<u>File Print Edit V</u> iew <u>G</u> raph	n <u>S</u> ettings <u>H</u> elp	
🙆 🛄 🔚 🖒 😂 🚖		Click
Time series graph Summary Report:	Daily/Weekly/Monthly Harmonic : List Harmonic : Graph Waveform Settings	
Data 04250000 CSV		
Paramatar	Satting	
Model number	PW3360	
Version	Verg 00	
ID pumber	S /N 00000000	
Folder / File name	13042500	
Wiring	3P4W	
PE/Q/S calculation method	END	
Measurement line frequency	60Hz	
THD calculation method	THD-R	
Measurement interval	1 Minute	
Voltage range	600)/	
Current range	Circuit 1 : 100A	
Sensor	Circuit 1 : 9661(500A)	
VT (PT) ratio	60	
CT ratio	Circuit 1 : 80	
Electricity charges scaling	enout 1100	
Pulse unit		
Measurement start time	2013/04/25 17:24:00	
Measurement stop time	2013/05/02 11:21:00	
P		
Power	Ready	

10.1 Select Measurement Data

Select the name of data to be displayed from the loaded data files.

Power Logger Viewer SF1001	
File Print Edit View Graph Settings	Help
🖕 🗋 🔚 🖒 🙈 🖨 🖓	
Time series graph Summary Report: Daily/Weekly/	Click t Harmonic : Graph Waveform Settings
Data 04250000.CSV	
(No display) 04250000.CSV	
Paramet(06210000.CSV	

10.2 Set Column Width

Place the cursor on the right edge of the column to be adjusted; the cursor will change to a cross. Double-click to adjust the column width automatically, or click and drag the edge of the column to adjust the width manually.

Power Logger Viewer SF10								
File Print Edit View Gr	aph Settings Help							
🙆 🛄 🔚 🗅 🙈 🗄								
Time series graph Summary Rep	ort: Daily/Weekly/Monthly Harmonic : List Harmonic : Graph Waveform Settings							
Data 04350000 CSV								
Data 104230000.CSV								
Parameter	Setting							
Model number	PW3360							
Version	Ver2.00							
ID number	S/N.000000000							
Folder / File name	13042500							
Wiring	3P4W							
PF/Q/S calculation method	FND							
Measurement line frequency	60Hz							
THD calculation method	THD-R							
Measurement interval	1 Minute							
Voltage range	600V							
Currentrange								
Sensor VT (PT) vetice								
OT rotio	Oreguit 1:30							
Electricity oberges sceling								
Pulse unit								
Measurement start time	2013/04/25 17:24:00							
Measurement stop time	2013/05/0211:21:00							

Printing

Chapter 11

11.1 Printing Screens

This section describes how to print Time-series Graph, Summary, Daily/Weekly/Monthly Report, Harmonic list, Harmonic graph, waveform, and Settings screens.

	ogger Viewer	SF1001												
File Print	: Edit Viev	v Graph	Settings H	lelp										
a dhal		a 🗅 🖪												
Time series g	raph Summar	/ Report: Dai	ly/Weekly/Mon	thly Harmon	ic : List Harm	onic : Graph 1	Waveform Se	ettings						
Parameter		Value	Circui	it Order D	ata name 🛛 In	terval Mea	surement perio	od File nar	ne Disp	lay name				
🗹 LVL_P : H	Harmonic level p	ower Averag	e value 1	1 1	EST.CSV 30	Minute 4/15	5/2014 14:47:0)2¥16_	_30m.CSV LVL_	P 1st Order[kV	V]			
🗹 LVL_P : H	Harmonic level p	ower Averag	e value 1	3 TI	EST.CSV 30	Minute 4/15	5/2014 14:47:0)2¥16_	_30m.CSV LVL_	P 3rd Order[k\	V]			
🗹 U1 : Volt	age RMS value	CH1 Averag	e value	П	EST.CSV 30	Minute 4/15	5/2014 14:47:0)2¥16_	_30m.CSV U1[\	a l				
I1 : Curr	ent RMS value (CH1 Averag	e value 1	П	EST.CSV 30	Minute 4/15	5/2014 14:47:0)2¥16_	_30m.CSV I1[A]				
I2 : Curr	ent RMS value (CH2 Averag	e value 1	П	EST.CSV 30	Minute 4/15	5/2014 14:47:0)2¥16	30m.CSV 12[A]				
✓ I1: Curr	ent RMS value (CH1 Averag	e value 2	п	EST.CSV 30	Minute 4/15	5/2014 14:47:0	¥16	30m.CSV I1[A	1				
V 12 · Curr	ent RMS value (CH2 Averag	e value 2	п	EST.CSV 30	Minute 4/15	5/2014 14:47:0)2¥16	30m.CSV I2[A	1				
I I I I I I I I I I I I I I I I I I I														
					Display time									
		Display tim	e		_									
		Display tim Start time:	e 4/15/2014	14:47:02				•	Data interva					
		Display tim Start time:	e 4/15/2014	14:47:02	•				Data interva	1				
		Display tim Start time: Stop time:	e 4/15/2014	14:47:02	Display pe	iod:]	Data interva					
		Display tim Start time: Stop time:	e 4/15/2014 4/15/2014	14:47:02	Display pe	iod:]	Data interva 30 Minute	•				
		Display tim Start time: Stop time:	e 4/15/2014 4/15/2014	14:47:02 • •	Display pe	iod:]]	Data interva	•				
Date	Time	Display tim Start time: Stop time:	e 4/15/2014 4/15/2014 UL_P 3rd Order[kW]	14:47:02	Display pe	iod:	11[A]	, , , , , , , , , , , , , , , , , , ,	Data interva 30 Minute P[kW]	Q[kvar]	S[kVA]			
Date Average valu	Time e in the period	Display tim Start time: Stop time: LVL_P1st Order[kW] 1.6616	e 4/15/2014 4/15/2014 UVL_P 3rd Order[kW] -0.0143	14:47:02	Display pe	iod:	11[A] 274217	12[A] 273.517	Data interva 30 Minute P[kW] 1.6243	Q[kvsr]	S[kVA]			
Date Average valu Maximum val	Time e in the period ue in the period	Display tim Start time: Stop time: LVL.P 1st Order[kW] 1.5616 1.7506	e 4/15/2014 4/15/2014 LVL.P 3rd Order[kW] -0.0143 -0.0131	14:47:02	Display pe 11[A] 13.716 14.345	iod:	H[A]	12[A] 273.617 286.200	Data interva 30 Minute P[kW] 1.6243 1.7081	Q[kvar] 0.0001 0.0002	S[kVA] 1.5243 1.7081			
Date Average valu Maximum val	Time e in the period ue in the period mum value	Display tim Start time: Stop time: UVL.P.1st Order[KW] 1.6616 1.7506 4/15/2014	e 4/15/2014 4/15/2014 LVL.P.3rd Order(kW) -0.0143 -0.0131 4/15/2014	14:47:02	Display pe Display pe II1[A] 13.716 14.345 4/15/2014	iod: 12[A] 13.715 14.344 4/15/2014	II [A] 274217 286.700 4/15/2014	12[A] 273.617 286.200 4/15/2014	Data interva 30 Minute P[kW] 1.6243 1.7081 4/15/2014	Q[kvar] 0.0001 0.0002 4/15/2014	S[kVA] 1.5243 1.7081 4/15/2014			
Date Averaçe valu Maximum vali Time of maxi	Time e in the period re in the period mum value	Display tim Start time: Stop time: UVL.P 1st Order[kW] 1.6616 1.7506 4/15/2014 16:47.02	e 4/15/2014 4/15/2014 LVL_P.3rd Order(kW) -0.0143 -0.0131 4/15/2014 15:47.02	14:47:02 17:47:02 UI [V] 10016 10153 4/15/2014 17:17:02	Display pe I1[A] 13.716 14.345 4/15/2014 16:47:02	iod: 12[A] 13.715 14.344 4/15/2014 16:47:02	11[A] 274-217 286.700 4/15/2014 16:47:02	12[A] 273.617 286.200 4/15/2014 16:47:02	Data interva 30 Minute P[kW] 1.5243 1.7081 4/15/2014 16:47:02	Q[kvar] 0.0001 0.0002 4/15/2014 15:17:02	S[kVA] 1.5243 1.7081 4/15/2014 16:47:02			
Date Average valu Madmum val Time of maxir Minimum valu	Time e in the period ue in the period mum value te in the period	Display tim Start time: Stop time: UVL.P 1st Order[kW] 1.6616 1.7506 4/15/2014 16:47.02 1.6133	e 4/15/2014 4/15/2014 UVL.P 3rd Order(kW) -0.0143 -0.0131 4/16/2014 15:47.02 -0.0158	14:47:02 17:47:02 17:47:02 10153 4/15/2014 17:17:02 9951	Lisplay pe Display pe 11 [A] 13 716 14 345 4/15/2014 16:47.02 13 161	iod: 12[A] 13.715 14.344 4/15/2014 15.47.02 13.160	11[A] 274217 286.700 4/15/2014 16:47.02 263.100	12[A] 273.617 286.200 4/15/2014 16:47.02 262.500	Data interva 30 Minute P(kW) 1.6243 1.7081 4/15/2014 1.6347.02 1.5769	Q[kvar] 0.0001 0.0002 4/15/2014 15:17:02 0.0000	S[kVA] 1.5243 1.7081 4/15/2014 16:47:02 1.5769			
Date Average valu Maximum vali Time of maximum vali Time of minim	Time e in the period us in the period mum value re in the period num value	Display tim Start time: Stop time: UML_P 1 st Order[kW] 1.6616 1.7506 4/15/2014 16:47:02 1.5133 4/15/2014	e 4/15/2014 4/15/2014 LVL.P. 3rd Order(kW) -0.01 43 -0.01 31 4/15/2014 15:47.02 -0.0158 4/15/2014	14:47:02 17:47:02 17:47:02 10016 100153 4/15/2014 17:17:02 9951 4/15/2014	Display pe Display pe 11[A] 13 716 14 345 4/15/2014 16:47:02 13 3161 4/15/2014	12[A] 13.715 14.344 4/15/2014 16:47:02 13.160 4/15/2014	11[A] 274217 286.700 4/15/2014 16:47:02 265.3100 4/15/2014	12[A] 273.617 286.200 4/15/2014 16:47:02 262.500 4/15/2014	Data interva 30 Minute P[kW] 1.6243 1.7081 4/15/2014 1.5769 4/15/2014	Q[kvar] 0.0001 0.0002 4/15/2014 1517:02 0.0000 4/15/2014	S[kVA] 1.5243 1.7081 4/15/2014 1.5765 4/15/2014			
Date Average valu Maximum valu Time of maxi Time of minir	Time e in the period us in the period mum value is in the period num value	Display tim Start time: Stop time: UVL.P 1.st Order[kW] 1.5616 4/15/2014 1.6133 4/15/2014 1.7:47:02	e 4/15/2014 4/15/2014 4/15/2014 LVL_P.3rd Order[kW] -0.0143 -0.0131 4/15/2014 15:47:02 -0.0158 4/15/2014 16:47:02	14:47:02 17:47:02 10153 10016 10153 4/15/2014 17:17:02 9351 4/15/2014 16:17:02	Display pe Display pe 11[A] 13.716 14.345 4/15/2014 16:47.02 13.161 4/15/2014 17:17.02	12[A] 13.715 14.344 4/15/2014 16:47:02 13.160 4/15/2014 17:17:02	H[A] 274.217 286.700 4/15/2014 16:47.02 263.100 4/15/2014 17:17:02	12[A] 273.617 285.200 4/15/2014 16:47.02 262.500 4/15/2014 17:17:02	Data interva 30 Minute P[kW] 1 6243 1 7081 4/15/2014 1 5769 4/15/2014 1 7:47:02	Q[kvar] 0.0001 0.0002 4/15/2014 15:17:02 0.0000 4/15/2014 16:47:02	S[kVA] 1.5243 1.7081 4/15/2014 1.5763 1.5763 4/15/2014 1.747:02			
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2

Select [Print]-[Header settings] on the menu bar.

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	File	Print	Edit View Graph	Settings	Help				
			Print	Ctrl+P	5 🖸				
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Ш	V U		Header cottings		1 Minute	2013/04/25 17:24:00	¥Power0000	U2[V]	
Н	V U		Hedder settings		1 Minute	2013/04/25 17:24:00	¥Power0000	U3[V]	
	▼ I1 ▼ I2		Printer settings		1 Minute 1 Minute	2013/04/25 17:24:00 2013/04/25 17:24:00	¥Power0000 ¥Power0000	I1[A] I2[A]	

The "Header settings on the printed page" dialog will appear.

Header settings on the printed page	
C Text	Name
(* Bitmap	
B	owse
Note: If the selected BMP is not available, the default logo will be used.	
Title (2)	
C Auto Data name is displayed	
04250000.CSV	
(• Manual	
Power 1	
Comment (3)	
Add the model and serial numbers	
<u>]</u>	
Add comment	
Measurement data 1	
OK Cancel	
Example printout	
(1) (2) (3)	
Tal- Deneel	
Measurement per id 2013/04/26 18:32	:00 - 2013/05/01 11:31:00
Display period 20 3/04/26 18:32:00 - 24	01 3/04/27 00:07:00

NOTE

- If [Bitmap] has been selected under [Logo] but the referenced file does not exist, the HIOKI logo will be output.
- Some characters may not be displayed if you enter four or more lines under [Comment].
- "Power Logger Viewer SF1001" will be entered in the text space when the "Application Name" button is clicked.

2 Select [Print]-[Printer settings] on the menu bar.

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	File	Print	Edit View Graph	Settings I	Help				
			Print	Ctrl+P	5 🖸				
	Time s		Print preview		thly Harmon	iic : List Harmonic : Graph	Waveform Se	ettings	
	Para		Report printing	Ctrl+R	Interval	Measurement period	File name	Display name	<u> </u>
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	▼ 12		Printer settings		1 Minute	2013/04/25 17:24:00	¥Power0000	0 I2[A]	-

The "Print Setup" dialog will appear.

Print Setup	
Printer	
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when using	g grayscale printing, screens may not print properly depending on the set colo
	6 June 1997
The print p	button.
Power Logger Viewer	SF1001
	Ttle Powri
	HIOKKI Massuremet priorite [2013/04/09 18/200 - 001/04/06 11/10/0 Time series data Comparison (2013/04/09 18/200 - 001/04/06 11/10/00) Massuremet transmit in Media Data interval Time series data Comparison (2013/04/09 18/200 - 001/04/06 11/10/00)
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	91200 9514 1617 9524 2716 2736 2716 161400 1653 1654 1657 2701 2701 2701 161500 1654 1657 2701 2701 2701 2701 161500 1654 1657 2701 2701 2701 2701 161700 1628 1627 2701 2701 2701 2701 161700 1628 1627 2701 2701 2701 2701 161700 1628 1627 2701 2701 2701 2701 161700 1628 1627 2701 2701 2701 2701 2701 161700 1628 1628 3217 440 445
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Check the print preview and click [Print].

7

11.2 Printing Reports

This section describes how to create and print reports consisting of loaded measurement data. Timeseries data, daily reports, and time-series graphs based on the loaded files will be printed.

1	Select [Print]-[Header settings] on the menu bar.	
	Power Lop 1 Click	
	File Print Edit View Graph Settings Help	
	Ctrl+P	
	Time : Print preview hthly Harmonic : List Harmonic : Graph Waveform Settings	
	Para La Report printing 2 Click // Measurement period File name Display name // Jule 2013/04/25 17:24:00 ¥Power0000 U1[V]	
	☑ U Header settings 1 Minute 2013/04/25 17:24:00¥Power0000 U2[V] ☑ U Header settings 1 Minute 2013/04/25 17:24:00¥Power0000 U3[V]	
	Image: Second	
	The "Header settings on the printed page" dialog will appear.	
2	Enter a logo, title, and comment as necessary and click [OK].	
	Header settings on the printed page	
	Logo (1)	
	C Text Application Name	
	© Bitmap Browse	
	Note: If the selected BMP is not available, the default logo will be used.	
	Title (2)	
	☐ Display	
	04250000.CSV	
	C Manual	
	Power1	
	Add the model and serial numbers	
	Add comment Measurement data 1	
	OK Cancel	

NOTE

- If [Bitmap] has been selected under [Logo] but the referenced file does not exist, the HIOKI logo will be output.
- Some characters may not be displayed if you enter four or more lines under [Comment].





Select the measurement mode you wish to print as the print parameter. [Power]

Prints a summary, daily report, and time-series graph.

[Harmonic one interval]

Prints a harmonic list and harmonic graph.

Outputs the average value for the first time interval after the specified time and date. Example: If you specify 12:00:00 on 2013/07/01 with a measurement data interval of 5 minutes, the software will output the average value for the period of time from 12:00:00 on 2013/07/01 to 12:05:00 on 2013/07/01.

[Harmonic fixed period]

Prints a summary and time-series graph. Outputs the values of the order selected with **[Order selection]**.

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Enter the print period and click [Next].

Report printing : Start page			
Format : Power C Harmonic one interval	1 Select		
Order : 5 💌			
	2 Set		
Date / Period			
2013/04/25 17:24:00	- 2013/05/02 11:21:00 -		
	3 Click		
	< Back Next > Cancel		

NOTE

When you have selected **[Harmonic one interval]** in Format, please specify a date and a time other than the beginning of the data in **[Date / Period]** because there is no value at the beginning time of the data.


Report printing : End page	X
Print pre <u>v</u> jew Report printing is previewed.	Click Print Report is printed.
	< Back Finish Cancel

Alternately, click [Print] on the top left of the preview screen after checking it under [Print preview].

		Title Measu	Power1 rement period	2013/04/26 1	8:32:00 - 2013/0	5/01 11:31:00		
	IOK	Display	period 2013/	04/25 18:32:00	- 2013/04/27 0	0.07:00		
Tim	e series dat	ta Comm	ent Measurem	1 Minute ent data 1	Da	ta interval	Minute	
Date	Time	UI[V]	U2[V]	US[V]	BLAJ	12A	DIA.	P[kW]
Maximum v Time of ma	alue in the period primum value	104.92 2013/04/25	104.95	104.91 2013/04/26	37.193 2013/04/25	37.292 2013/04/25	37.160 2013/04/26	4.7
Minimum v	alue in the period	22:22:00	22:22:00	22:22:00	18:33:00 33:445	18:33:00 33:541	18:33:00	18:33:0
2013/04/2	18:32:00	2013/04/26 20:56:00	2013/04/28 20:58:00	2013/04/26 20:56:00	2013/04/26 20:41:00	2013/04/26 20:41:00	2013/04/26 20:41:00	2013/04/1
	18:33:00	102.14	102.17	102.14	37.193 37.072	37.292 37.171	37.160 37.039	4.7
	18:35:00	101.78	101.81 102.25	101.78 102.23	35.624 33.896	35.719 33.991	35.591 33.850	4.4
	18:37:00 18:38:00	102.95 102.58	102.98	102.95	33.817 34.013	33.911 34.108	33.767 33.952	4.10
	18:39:00	102.36	102.39	102.37	33.958 33.913	34.052 34.007	33.906 33.861	4.1
	18:41:00	102.92	102.95	102.93	33.810 35.419	33.905 35.518	33.758	4.18
	18:44:00	102.37	102.20	102.37	35.584	35.683	35.527	4.4
	18:45:00	101.30	101.33	101.31	34.135	34,245	34.095	41
	18:48:00	101.20	101.24	101.20	34,198	34,294	34.142	4.18
	18:50:00	101.12	101.15	101.13	34,212	34,308	34,155	41
	18:52:00	100.98	101.02	100.99	34.216	34.312	34.159	4.1
	18:54:00	101.02	101.08	101.03	34,135	34,232	34,080	41
	18:55:00	101.05	101.08	101.05	34,140	34.235	34,084	41
	18:58:00	100.97	101.01	100.98	34,192	34.287	34,135	4.10
	19:00:00	101.17	101.20	101.17	34,132	34.227	34.075	41
	19:02:00	101.50	101.53	101.51	34,194	34,289	34.137	418
	19:04:00	101.47	101.50	101.48	34,168	34,263	34,111	41
	19:05:00	101.64	101.67	101.65	34.122	34.218	34.055	4.1
	19:08:00	101.85	101.89	101.87	34.057	34,152	34,000	41
	19:10:00	102.18	102.21	102.19	33.913 33.990	34.008	33,856	41
	19:12:00	102.60	102.63	102.60	34.328	34.424	34.270	4.10
	19:14:00	102.41	102.44	102.41	34.414	34.510	34,355	4.10
	19:16:00	102.40	102.43	102.41	34,495	34.591	34,438	41
	19:18:00	102.05	102.09	102.05	34.579	34.676 34.738	34.519 34.581	41
	19:20:00	101.38	101.41	101.38	34.570	34.667	34.511	411
	19:22:00	100.92	100.85	100.92	34.612	34,709	34,553	411
	19:24:00	100.78	100.82	100.79	34,545	34,543	34,487	41
	19:26:00	100.96	101.00	100.97	34.572	34,669	34,513	41
	19:28:00	102.30	102.33	102.31	34.373	34.470	34.315	4.18
	19:30:00	102.54	102.57	102.54	34.375	34.472	34,316	41
	19:32:00	102.74	102.77	102.74	34,489	34,585	34.429	41
	19:34:00	102.35	102.38	102.35	34.655	34,752	34.595	41
-	19:36:00	102.68	102.70	102.68	34.573 34.617	34.670 34.715	34.514 34.557	41
	19:38:00	102.11	102.14	102.11	34.659 34.505	34.755 34.602	34.599 34.445	4.1
	19:40:00	102.28	102.31	102.28	34,219	34.315	34,160	41
	19:42:00	101.54	101.57	101.54	34.399	34.495	34.339	41
	19:44:00	101.48	101.51	101.49	34,295	34,392	34.237	41
-	19:45:00	101.90	101.93	101.90	34.237	34.333	34,178	41
	10.07.00	101.00	101.00	101.00	04.200	04.001	00.170	

The report will be printed.

Specifications Chapter 12

12.1 General Specifications

Supported model	Model PW3360 Clamp on Power Logger Model PW3365 Clamp on Power Logger Model 3169 Clamp on Power HiTester Model 9625 Power Meas. Support Software Data Logger series		
System requirements	Personal computer satisfying the following requirements:OS: English version, Japanese version, or Chinese version Windows 7 SP1 (32-bit version/ 64-bit version) or later Windows 8.1 (32-bit version/ 64-bit version) Windows 10 (32-bit version/ 64-bit version)CPU: 1.0 GHz or more (2.0 GHz or more recommended) * For Windows 7 (64-bit version), Windows 8.1 (64-bit version), and Win- dows 10 (64-bit version), 2.0 GB or moreHard-disk space: Free disk space of 128 MB or more (at launch) Display Disk driveCD-ROM drive (used for installation)		
Supplied media	One application disc		

12.2 Functional Specifications

Load/Save function

Loadable data formats	Model PW3360 Model PW3365 Model 3169 Data Logger Model 9625	 Measurement data file (Extension .CSV, CSV format) Harmonic-measurement data file (Extension .HRM, binary format) Waveform data file (Extension .WUI, binary format) Measurement data file (Extension .CSV, CSV format) Harmonic-measurement data file (Firmware version number 2.00 or later is required) (Extension .HRM, binary format) Waveform data file (Extension .WUI, binary format) Measurement data file (Extension .CSV, CSV format) Waveform data file (Extension .CSV, CSV format) Measurement data file (Extension .CSV, CSV format) Waveform data file (Extension .WUI, binary format) Recorded data file (Extension .hrp2, .ini, .bin) Combined file (Extension .dat, binary format)
	Model SF1001	: Combined file (Extension .da2, binary format)
Savable data formats	Model SF1001 CSV format	: Combined file (Extension .da2, binary format) : Displayed measurement parameters will be saved in the CSV format.
Maximum loadable data size	For files consisti For files includin	ng of only data in CSV format and not including those in binary format: 4 GB g data in binary format: 2GB
Maximum number of data sets that can be loaded	16	

Time-Series graph display

Graphic display item	Voltage RMS value/ current RMS value/ voltage fundamental wave value/ current fundamen- tal wave value/ voltage waveform peak/ current waveform peak/ voltage fundamental wave phase angle/ current fundamental wave phase angle/ voltage unbalance factor/ active power/ reactive power/apparent power/power factor or displacement power factor/ frequency/ active energy (consumption, regeneration)/ reactive energy (lag, lead)/ active power demand value (consumption, regeneration)/ reactive power demand value (lag, lead)/ active power demand value (consumption, regeneration)/ reactive power demand value (lag, lead)/ power factor demand value/ electricity charges/pulse input value/ harmonic level (voltage, current, and power)/ harmonic content percentage (voltage, current, and power)/ harmonic phase angle (voltage, current, and power)/ total harmonic distortion (voltage, current) (THD-F, THD-R) * Model PW3365 does not measures harmonic levels (power), harmonic content percentages (power), or harmonic phase angles.
Y-axis upper/ lower-limit setting	Automatic calculation/user specification of graph vertical axis (Y-axis) display
Interval setting	Selectable from 1 cycle/0.1 sec/0.2 sec/0.5 sec/1 sec/2 sec/5 sec/10 sec/15 sec/30 sec/1 min/ 2 min/5 min/10 min/15 min/20 min/30 min/1 hour/2 hour/3 hour/4 hour/6 hour/8 hour/12 hour/1 day
Display-period setting	 The analysis start date and stop date are selectable during the overall period of the measurement data. Analysis start date (year/month/day/hour/min/sec): Enter appropriate numbers. Analysis stop date (year/month/day/hour/min/sec): Enter appropriate numbers. Period of measurement data (from the measurement start date to the stop date) may be displayed.
Reference-value set- ting	The set reference value is displayed.

Time-Series graph display

Graph type selection	Line graph, bar graph and Stacked bar graphs
Line style/color set- ting	Line style and line color are selectable separately for each piece of data. Marker display is available.
±1 center power fac- tor display	Graph center is ±1, upper limit value +0, lower limit value -0.
Stacked bar graph display	Displays a stacked bar graph of up to 16 pieces of data (demand quantity and demand value only)
Cursor measurement	Displays the measurement of a point selected using the cursor
Data-display unit set- ting	The SI prefix (m, k, M, G, etc.) is set, and values are displayed accordingly.

Summary function

Display-item selection	Select items to be displayed on the summary * Display parameters are same as graph display parameters.
Daily, weekly, and monthly report	Sums up the data of a selected period and displays a daily, weekly, or monthly report * Excluding harmonic wave (level/content percentage/phase angle) and total harmonic distor- tion.
Load-factor calculation	Calculates the load factor/demand factor of a daily, weekly or monthly report, and displays the result.
Total per time seg- ment	Divides one day into a maximum of four segments, and sums up the data of each segment.
Conversion and dis- play of electric charges	Converts power readings to electric charges using the specified coefficient and displays the result. (as a reference value)
CO ₂ conversion dis- play	Display the integrated active power (kWh) in CO2 according to the conversion rate. (as a reference value)

Harmonic Display function

List display	Displays a list of the harmonic data for a selected date
Graphic display	Displays a graph of the harmonic data for a selected date
Cursor measure- ment	Cursor measurement is available in the graphic display

Waveform display function

Waveform display	Displays a waveform data for a selected date
Cursor measurement	Cursor measurement is available

Setting display function

Setting display	Displays a list of the current settings Reads the settings from the data file
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Copy function

Copying to the clipboard	Screen images can be copied to the clipboard.	
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Print function

Time-series graphic print	Prints the data shown by the time-series graphic display, and displays the preview
Summary print	Prints the data shown by the summary display, and displays the preview
Harmonic list print	Prints the data shown by the harmonic list display, and displays the preview
Harmonic graph print	Prints the data shown by the harmonic graph display, and displays the preview
Waveform print	Prints the data shown by the waveform display, and displays the preview
Setting print	Prints the data shown by the setting display, and displays the preview.
Comment input	Text comments can be inserted as desired during printing.
Header/footer settings	Headers and footers can be set during printing.
Printer	Any printer compatible with the OS used Any color or monochrome printer compatible with the OS used

Report printing function

Report print	Prints the selected print format.
Print format	Power/ harmonic one interval/ harmonic fixed period
[Power] output parameters	Summary/ daily report/ time-series graph
[Harmonic one interval] output parameters	Harmonic list/ harmonic graph
[Harmonic fixed period] output parameters	Summary/ time-series graph
[Power] output parameters	Voltage/ current/ active power/ reactive power/ apparent power/ power factor/ active energy (consumption)/ active power demand value (consumption)
[Harmonic one interval] har- monic list print parameters	Harmonic level/ harmonic content percentage/ harmonic phase angle
[Harmonic one interval] har- monic graph print parameters	Harmonic level/ harmonic content percentage * Axis type: LOG
[Harmonic one interval] wave- form print parameters	Voltage/ current
[Harmonic fixed period] ledger print parameters	Active power/ harmonic level (power)/ total harmonic distortion (voltage)/ harmonic content percentage (voltage)/ current RMS value/ harmonic level (current)/ harmonic phase angle (power)
[Harmonic fixed period] time- series graph print parameters	Active power/ harmonic level (power)/ total harmonic distortion, content percentage (voltage)/ current RMS value/ harmonic level (current)
Summary data interval	Automatic

Other function

Application
assistanceTool tips (tool hints), etc.Display languageJapanese/ English/ simplified Chinese

12.3 Calculation Formulas

Load Factor [%]

(Displayed by using summing results from a daily, weekly, or monthly report screen)

Load factor =

Average active power [kW] Maximum demand value [kW] ×100 [%]

- Average active power is the average of all active power measurements during the summing period.
- The maximum demand value is the largest among all demand values during the period.
- The summing period is one day for a daily report, seven days for a weekly report, and one month for a monthly report.
- The load factor above represents the degree of fluctuations of electricity demand during summing period.

Demand Factor [%]

(Displayed by using summing results from a daily, weekly, or monthly report screen)

- The maximum demand value is the largest among all demand values during the summing period.
- The summing period is one day for a daily report, seven days for a weekly report, and one month for a monthly report.
- The facility capacity is set in the Load data file dialog. Click "File" on the menu bar, and then select "Load" file to open the dialog.
- This demand factor shows how much power is used at maximum in terms of the percentage of facility capacity.

Voltage Unbalance Factor [%]

Voltage unbalance factor $U_{unb} = \frac{U_b}{U_a} \times 100 \, [\%]$ $U_a = \sqrt{\frac{1}{6} (U1^2 + U2^2 + U3^2) + \frac{2}{\sqrt{3}} \sqrt{U_s (U_s - U1) (U_s - U2) (U_s - U3)}}$ $U_b = \sqrt{\frac{1}{6} (U1^2 + U2^2 + U3^2) - \frac{2}{\sqrt{3}} \sqrt{U_s (U_s - U1) (U_s - U2) (U_s - U3)}}$ $U_s = \frac{U1 + U2 + U3}{2}$ U1, U2, U3: Line to line volume

U1, U2, U3: Line to line voltage (instantaneous or average values)

- This voltage unbalance factor represents the degree of voltage unbalance between three phase lines.
- Only 3-phase/3-wire measurement data is displayed.

ΗΙΟΚΙ



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