# KEW Windows for KEW6315 Quick Start Guide

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### **Environmental requirements**

### System requirements:

• CPU	: Pentium 4 1.6GHz or more
<ul> <li>Memory</li> </ul>	: 1Gbyte or more
• OS	: Please refer to version label on CD case about Windows os.
• HDD	: 1Gbyte or more (including size of .NET Framework redistributable package) (Hard-disk space required)
CD or DVD drive	: For installing applications
<ul> <li>Display</li> </ul>	: 1024 x 768 dots, 65536 colors or more

#### Recommended system:

Pentium processor of 2GHz or more

### Without connecting PC and KEW6315:

[Data Analysis (P.6)]

is available.

Start "KEW Windows".

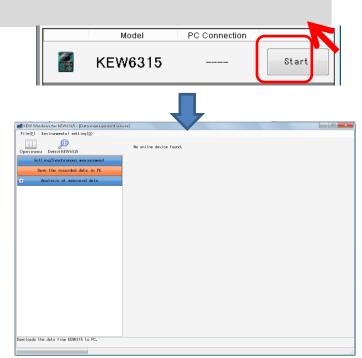
1 Double-click the short-cut icon on the desktop, or click "Start" -> "All programs" -> "KEW" -> "KEW WindowsV2".



#### STEP 2 Stort "KEW Windows for KEW624

Start "KEW Windows for KEW6315".

1 Click the [Start] button for KEW6315.



### With PC and KEW6315 connected:

[Data Analysis (P.6)] [Saving data to PC (P.38)] [KEW6315 Setting (P.46)] [Real-time Measurement (P.52)] are available.

### STEP 1

## Connect KEW6315 and PC.

1 Connect KEW6315 and PC with the USB cable.



**2** Turn on KEW6315.

## STEP 2

### Start "KEW Windows".

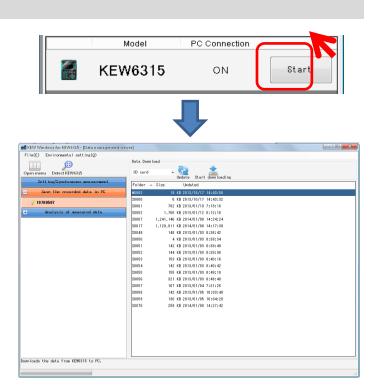
1 Double-click the short-cut icon on the desktop, or click "Start" -> "All programs" -> "KEW" -> "KEW WindowsV2".



### STEP 3

Start "KEW Windows for KEW6315".

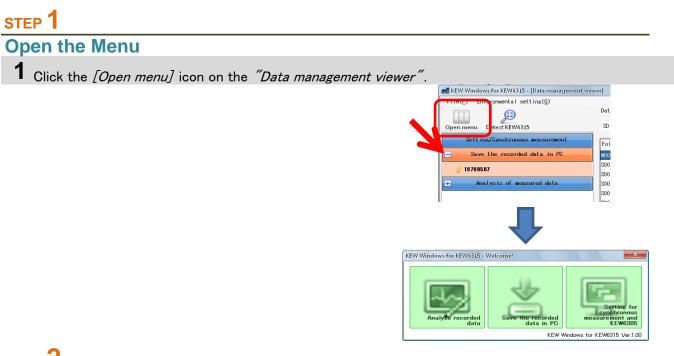
1 Click the *[Start]* button for KEW6315.



If "ON" is not displayed for the connected status although KEW6315 is being connected to PC, click [*Re-detect*].

If "ON" is still not displayed, see the "Trouble-shooting".

### Analysis of data stored in KEW6315



### STEP 2 Show the list of data stored in PC

1 Click the [Analyze recorded data] icon.

Description         Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>			
Analyzie ended       Sew threacedned       Save threaded       Save thread	KEW Windows for	KEW6315 - Walcoma	
FileC       Devicement i setting()         Open mem       Detect EXV013         Setting/Sectionses exacrement       Setting/Sectionses exacrement         Setting/Sectionses exacrement       Sectionses exacrement         Setting/Sectionses exacrement       Sectionses exacrement         Sectionses exacrement       Sectionsexacrement         Se	Analyze	cordel Save the recorded measurement and data in PC KEW6305	
Nummer         Description           State Add yr         Control of the c			×
Data Affairs         The grant by thronics for the back is bac			
Save the recorded data in PC         S232 192057         d19201 192057         d19201 192057         d19201 192057         d19201 192057           Advanced data         S007 1970057         60-001 1979-1         1,241,148 10 2017/17/8 14444         S007 1970057         60-001 1979-1         1,241,148 10 2017/17/8 14444         S007 1970057         60-001 1979-1         1,241,148 10 2017/17/8 14444         S007 1970057         60-001 1979-1         1,123,110 2017/17/8 14444         S007 1970057         60-01 1979-1         1,123,110 2017/17/8 14444         S007 1970057         60-01 1979-1         1,123,110 2017/17/8 14141         S007 1970057         60-01 1979-1         1,123,110 2017/17/8 14141         S007 1970057			
VT_rALio     1     1.00     Deword Tarvet     1     100.040       Benson     1     100.010     1     0.01.01       A Range     1     0.01.01     1     0.01.01       A Range     1     0.01.001.01     100     0.01.01       CT rALio     1     1.007.1007.01.01.01     100     0.01.01       CT rALio     1     1.007.1007.01.01.01     100     0.01.01       CD Range     1     1.000.01.00     100     0.01.01       CD Range     1     0.001.00     100     0.001       CD Range     1     0.001.00     100     0.001       Viria     1     1000.01     100     0.001       Viria     5     0.001     100     0.001       Viria     5     0.001     100     0.001       Viria     5     0.001     100     100       Viria     6     ML Data     1     1000002.185, 1100       Dial     0     0.015     5     100.012     100.001       Viria     6 <td>Analysis of measured data     By serial no     By ID number</td> <td>20020         1978057         64-601         978184         4_004         M0_2014/01/03         6546444           20070         1978057         0-601         1978-1         1,241,444         102017/1278         164444           00010         0115820         0-601         1978-1         1,247,44         102017/278         124220           00010         0115820         0-601         1978-1         1,179,41182         1177/274         11411           00076         177,607         0-601         1978-1         1,179,4118         1147/274         114116           00076         177,607         0-601         1978-1         1,279,4114         1145         1147/274         114116           00076         177,007         0-101         1978-1         1,279,4114         1145         1147/274         114116           00076         177,007         0-101         1978-1         2,878         10,777,918         114150           00046         00060000         0-601         1974+1         5842         10,777,918         1141550           0046         00060000         0-601         1974+1         6482         117,7718         115150</td> <td></td>	Analysis of measured data     By serial no     By ID number	20020         1978057         64-601         978184         4_004         M0_2014/01/03         6546444           20070         1978057         0-601         1978-1         1,241,444         102017/1278         164444           00010         0115820         0-601         1978-1         1,247,44         102017/278         124220           00010         0115820         0-601         1978-1         1,179,41182         1177/274         11411           00076         177,607         0-601         1978-1         1,179,4118         1147/274         114116           00076         177,607         0-601         1978-1         1,279,4114         1145         1147/274         114116           00076         177,007         0-101         1978-1         1,279,4114         1145         1147/274         114116           00076         177,007         0-101         1978-1         2,878         10,777,918         114150           00046         00060000         0-601         1974+1         5842         10,777,918         1141550           0046         00060000         0-601         1974+1         6482         117,7718         115150	
		V Panae         :         600V         Recording interval         :         5 sec.           VT ratio         :         1.0         Demond Target         :         100.040           Sensor         :         1015/125/125/125/125         Demond Target         :         100.040           A fance         :         2012/0125/125/125/125         Demond Target         :         100.040           C ratio         :         :         2012/0125/125/125/125         Demond Target         :         100.040           C ratio         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         :         : <th></th>	
TA - / ANTL-	nalyze the data downloaded into PC.		

#### STEP 3 View the data stored in KEW6315 1 Select the items to be analyzed. anagement viewer] List of data in PC 5 h 5 Time series Harmonics Event EN50160 Data Analysi Update Summed file Import data Data Download Data Serial no. ID no. Wiring system Size Updated ^ 0016 00000000 2014 06 05 10 20 367 00-001 1P2W-1 5 KB 2014/06/05 10:20:39 [Time series] ...For Power data Analysis [Harmonics] ...For Harmonics data Analysis ...For Power Quality Event data Analysis [Event] [EN50160] ...For data analysis according to EN50160

2 Click the [Data Download] icon.

ewer]						
List of data in PC						
Data Analysis	ries Harmonics	Event Update	Summed file	Import data Da	ata Download	
Data Serial no.	ID no. Wir	ing system – S	Size Up	odated		
\$0002 19780507	00-001 929	18V	N 396 KB 20	14/01/09	- 28	

**3** Select the data to be analyzed, and then click the *[Start downloading]* icon.

KEW Windows for KEW6315 - [Data managemen	it viewer]
File( <u>F</u> ) Environmental setting( <u>0</u> )	
	Data Download
Open menu Detect KEW6315	Upone Start downloading
Setting/Synchronous measurement	Folder A Size
Save the recorded data in PC	M0003 19 KB 2013/10/17 14:43:50
<i>₩</i> 19780507	S0000 6 KB 2013/10/17 14:43:32
¥ 13700307	S0001 702 KB 2013/01/10 7:19:16
+ Analysis of measured data	S0002 1,766 KB 2013/01/12 0:12:16
	S0005 71 KB 2014/01/09 13:55:48
	S0006 543 KB 2014/01/09 14:01:04
	S0007 1,241,146 KB 2014/01/08 14:24:24
	S0008 235 KB 2014/01/09 14:03:38
	S0017 1,129,811 KB 2014/01/08 14:17:38
	S0049 148 KB 2013/01/03 8:36:42
	S0050 4 KB 2013/01/03 8:38:34
	S0051 142 KB 2013/01/03 8:38:48
	S0052 144 KB 2013/01/03 8:39:06
	S0053 153 KB 2013/01/03 8:40:16
	\$0054 142 KB 2013/01/03 8+40+42

**4** Data Analysis Window will appear when data download to PC completes.

	Data Download INPS0002.KEW 65,536 / 139,940 byte	Cancel
Image: state of the state of th	cs viewer - C:\Documents and Settings\TestUser\My Documents\KEW\KEW WindowsV2\KEW6315\I	PcData 19780507\5000

### Analysis of downloaded data

STEP 1 **Open the Menu** 1 Click the [Open menu] icon on the "Data management viewer". KEW Windows for KEW6315 - [Data management viewer] ntal setting(<u>0</u>) Dat t KEW6315 Dpen n Fol M00 S00 Save the recorded data in PC 19780507 S00 S00 S00 Analysis of a KEW Windows for KEW6315 - Welcor

### STEP 2 Show the list of data stored in PC

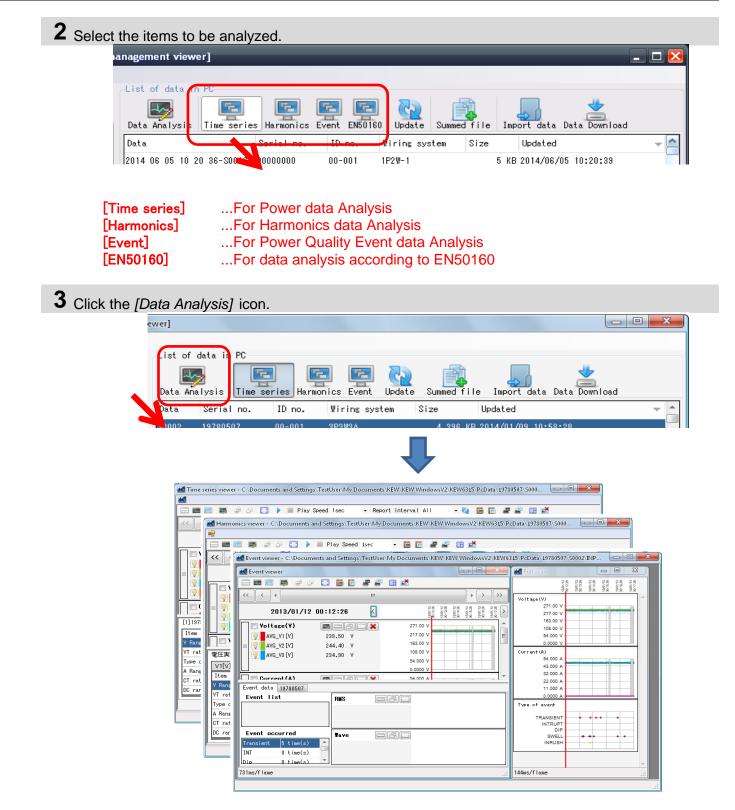
1 Click the [Analyze recorded data] icon.



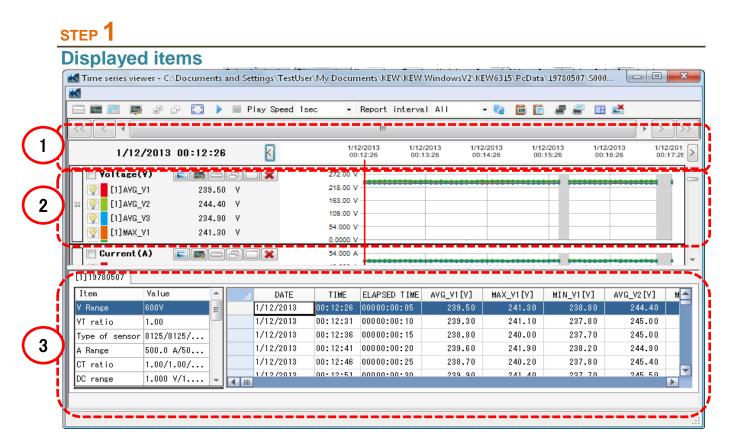
SD

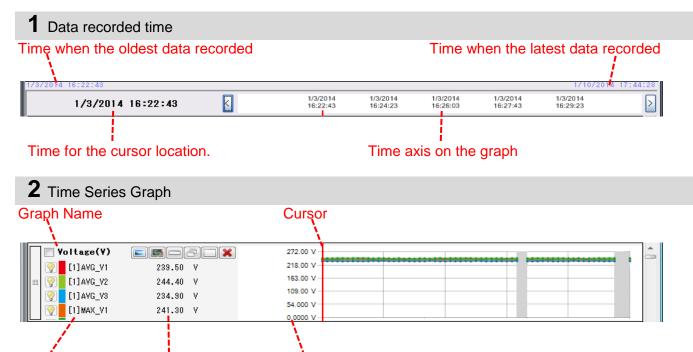
KEW Windows for KEW6315 Ver

Open menu Detect KEW6315	List of data in f	C	series Harnor			1		
Setting/Synchronous measurement	Data Analysis Data Serial		10 no.	Viring a			Import data Data Download	
Save the recorded data in PC	S0002 19780503		00-001	3P3#3A		KB 2	2014/01/09 17:38:10	
Analysis of measured data	S0007 19780503 S0010 08159813		00-001	1P3%-1 1P3%-1			2013/12/26 9:46:44 2013/12/24 9:22:20	
🖽 By serial no	S0017 1978050		00-001	1P3%-1	1,129,811	KB 2	2013/12/24 9:14:16	
🖽 By ID number	S0076 19780503 S0042 00000000		00-001	1P2N-1 3P4N+1A			2013/12/19 18:14:58 2013/12/18 14:15:30	
🗄 By wiring system	S0046 00000000		00-001	3P48+1A 3P48+1A			2013/12/18 14:15:30	
	V Bance VI ratio Sensor A Bance CT ratio DC Bance Nominal V Frequency Wiring Transient Interruption Dip Swell Inrush current File ID		600V 1.00 8125/8125/81 500.0 A/500 /500.0 A/500 1.00/1.00/1. 1.000 V/1.00 100V 50Hz 3P3W3A 5 0 0 6 1 6315 5	0 A .0 A 00/1.00	Recording interval Demond Toreval Demond Cycle THD Caic. REC Start. REC Eard Information ID no. INF Data VAL Data VAL Data Serial No.		Tho:F 2013/01/12_00:12:21 2013/01/12_00:17:20 SEL 00-001 INF20002.KEW, *2255 INF20002.KEW, *255 INF20002.KEW, *10520 EV720002.KEW, *10520 MXC20002.KEW, *2592	
	Version	:	0.03,'00		Bluetooth address	:	00_06_F7_AF_E1_02	



## Power data Analysis







Parameter

Values where cursor is located.

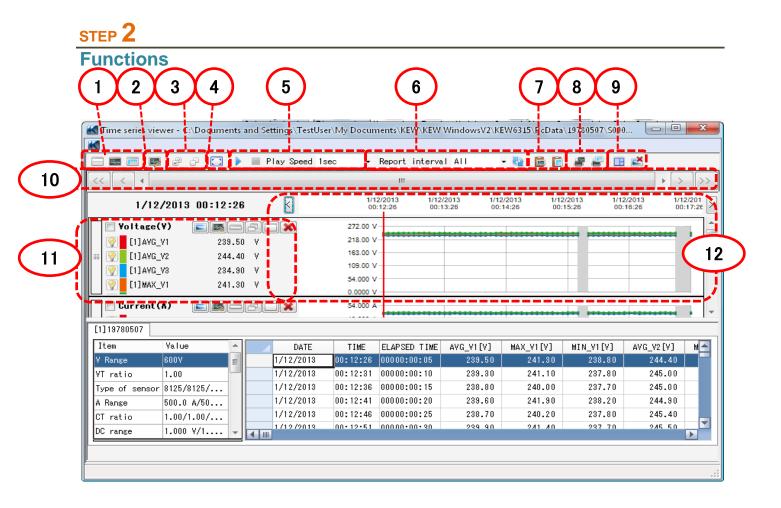
### 3 Time Series List

#### Serial no of KEW6315

Item	Value	*		DATE	TIME	ELAPSED TIME	AVG_V1[V]	MAX_V1[V]	MIN_V1[V]	AVG_V2[V]	M 📥
V Range	600V	Ξ		1/12/2013	00:12:26	00000:00:05	239.50	241.30	238.80	244.40	
VT ratio	1.00	-		1/12/2013	00:12:31	00000:00:10	239.30	241.10	237.80	245.00	
Type of sensor	8125/8125/			1/12/2013	00:12:36	00000:00:15	238.80	240.00	237.70	245.00	
A Range	500.0 A/50			1/12/2013	00:12:41	00000:00:20	239.60	241.90	238.20	244.90	
CT ratio/	1.00/1.00/			1/12/2013	00:12:46	00000:00:25	238.70	240.20	237.80	245.40	
DC range	1.000 V/1	-	41.	1/12/2019	00-12-51	00000.00.30	999 QN	241 40	297 70	245 50	

#### / Measurement info

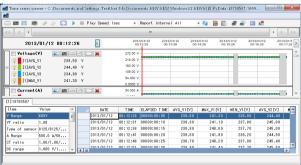
Time Series List



1 Changing the display layout.

To display graph and list on one screen at the same time:

Split the screen in two sections and display Tme Series graph in the upper area and list data in the lower area.



#### To display graph only

Time Series graphs are arranged and displayed on one screen.

- 🚥 📖 🧔 🤞	🗉 🕞 🛄 🕨 📰 Play Spe	ed 1sec - Report in	terval All	- 🚱 🛛	8 🗈 🖉 着	P 💷 🛋	
<							► [>]>:
2013/01	/12 00:12:26	2013/01/12 00:12:26	2013/01/12 20 00:13:26 0	13/01/12 0:14:26	2013/01/12 00:15:26	2013/01/12 00:16:26	2013/01/1 00:17:26
Voltage(V)		272.00 V					
[1] AVG_V1	239.50 V	218.00 V					
[1]AVG_V2	244.40 V	163.00 V					
[1] AVG_V3	234.90 V	109.00 V					
[1] MAX_V1	241.30 V	54.000 V					
Current (A)		0.0000 V 54.000 A					_
2 [1]AVG_A1	47,900 A	43.000 A	****			•••••	
[1]AVG_A1	48.370 A	32.000 A					_
[1]AVG_A2	47,540 A	22.000 A		_			- 11
[1]NAX_A1	48,140 A	11.000 A		-			- 11
		0.0000 A					_
🔄 React . Pwr (Q		6.7k var					
[1] AVG_0	4.0190k var	5.3k var	An		MAN A	alio	
[1]AVG_01	1.0700k var	4.0k var	~~~~~	And		V-AC	$\mathbf{X}$
[1] AVG_02	985.70 var	2.7k var	- ~ v		×	Y	
💎 📕 [1] AVG_03	1.1600k var	1.3k var			网络白马 不	STATE OF	

### 💼 To display list only

Show the list data on one screen.

- = = 🛤	d 🖓 🖓	•	III P	lay Speed 1se	• 01	Report interve	I ALL	- 🚱 🛅 🛅	# # 🖽	<b>**</b>	
<<]< ] [ ]										• [>	
[1] 19780507											
Item	Value	^		DATE	TIME	ELAPSED TIME	AVG_VI[V]	MAX_V1[V]	HIN_VI[V]	AVG_V2[V]	н
				2013/01/12	00:12:26	00000:00:05	239.50	241.30	238.80	244.40	
VT ratio	1.00			2013/01/12	00:12:31	00000:00:10	239.30	241.10	237.80	245.00	
Type of sensor	8125/8125/			2013/01/12	00:12:36	00000:00:15	238.80	240.00	237.70	245.00	
A Range	500.0 A/50			2013/01/12	00:12:41	00000:00:20	239.60	241.90	238.20	244.90	
CT ratio	1.00/1.00/			2013/01/12	00:12:46	00000:00:25	238.70	240.20	237.80	245.40	
DC range	1.000 V/1	1		2013/01/12	00:12:51	00000:00:30	239.90	241.40	237.70	245.50	
Noninal V	1007			2013/01/12	00:12:56	00000:00:35	239.00	239.70	238.20	244.80	
Frequency	50Hz			2013/01/12	00:18:01	00000:00:40	240.70	242.00	239.00	245.70	
Wiring	3P3¥3A				2013/01/12 00:13:06 00000:00:45 2	241.00	241.00 242.30	237.90	246.00		
Version of				2013/01/12	00:13:11	00000:00:50	239.10	241.10	238.00	245.20	
Interval	5 sec.			2013/01/12	00:13:16	00000:00:55	239.70	242.40	237.90	244.60	
Target depand	100.0kV			2013/01/12	00:13:21	00000:01:00	240.70	242.30	239.00	244.30	
Demand seas				2013/01/12	00:13:26	00000:01:05	239.60	242.10	238.00	244.80	
				2013/01/12	00:18:31	00000:01:10	240.10	242.30	237.70	244.90	
THD calcula				2013/01/12	00:13:36	00000:01:15	239.00	241.20	237.90	244.30	
REC Start	2013/01/12	Ŧ	4 11								•

- **2** Switching the displayed graphs
  - To display the other graphs Select the measured data you want to display on a graph.

· · · · · · · · · · · · · · · · · · ·		Parameter	Item
↓ Instantaneous value		AVG_V1[V]	AVG_V1 [V]
	<b>V</b>	AVG_V2 [V]	AVG_V2 [V]
Active power(P[W]	<b>V</b>	AVG_V3 [V]	AVG_V3 [V]
- 🔽 -> Reactive power(Q[	<b>V</b>	MAX_V1[V]	MAX_V1 [V]
→ Apparent power(S[ → ♥→ Power factor(PF)	<b>V</b>	MAX_V2 [V]	MAX_V2 [V]
Frequency(f [Hz])	<b>V</b>	MAX_V3 [V]	MAX_V3 [V]
	<b>V</b>	MIN_V1[V]	MIN_V1 [V]
	<b>V</b>	MIN_V2[V]	MIN_2[V]
- ▼ → Total harmonic di	<b>V</b>	MIN_V8[V]	MIN_V2[V]
- 🐨 🛶 Total harmonic di	<b>V</b>	AVG_A1[A]	AVG_A1 [A]
	<b>V</b>	AVG_A2 [A]	AVG_A2 [1]
Voltaxe unbafance	<b>V</b>	AVG_A3 [A]	AVG_A3 [A]
	· • •		
		Init	ialize OK Cancel

Right-click on the item list to select all items or diselect the selected items.

1.61.6		
2 [V]		AVG_V2 [V]
3[V]	Select A	
1 [V]	Deselec	
2 [V]	Deselec	
3 [V]		MAX_V3[V]

Check for the parameters to be displayed on a graph.

**3** Select/ Un-select the graphs

To select all the graphs

Check all the boxes for the graphs you want to display.

	🧈 🗗 🌅 🕨 🔳 Play	Speed 1sec - Re	eport interval All	- 🚱	🖻 📄 🖉	an 🖪 🖉	
<< < <			m				• >
1/12/2	013 00:12:26	1/12/2		1/12/2013 00:14:26	1/12/2013 00:15:26	1/12/2013 00:16:26	1/1 00
Voltage(V)		272.00 V					
[1] AVG_V1	239.50 V	218.00 V-					
📰 🧑 [1] AVG_V2	244.40 V	163.00 V-					
🕎 🔤 [1] AVG_V3	234.90 V	109.00 V-					
[1] MAX_V1	241.30 V	54.000 V					
Current (A)		0.0000 V					
		43.000 A	*****				
[1] AVG_A1	47.900 A	32.000 A					
📰 👰 [1] AVG_A2	48.370 A	22.000 A					
[1] AVG_A3	47.540 A	11.000 A			_		
[1] MAX_A1	48.140 A	0.0000 A					
React . Pwr (		6.7k var					_
[1] AVG_Q	4.0190k var	5.3k var	man	mant.		$\land$	
= 🤗 [1] AVG_Q1	1.0700k var	4.0k var	man	A AAAAA	XX :		
[1] AVG_02	985.70 var	2.7k var -	and the	VVIV~			
[1] AVG_03	1.1600k var	1.3k var -		NAME OF	EN/ES	<b>X-101-51</b>	2000 H

#### ☐ To unselect all the graphs

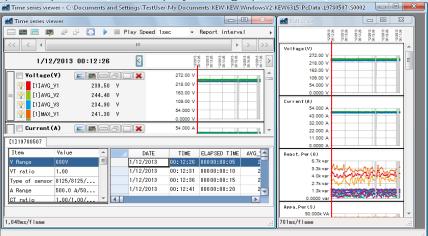
Uncheck all the checked boxes.

- 📼 📼 🥪 🖉	d= 🖸 🕨 🖬 🖬	Play Speed 1sec	<ul> <li>Report</li> </ul>	interval All	- 🚱	🖻 🖹 🖨	' 🖅 🖽 🖬	<b>*</b>
<< < •			m					
1/12/2013	00:12:26	<	1/12/2013 00:12:26	1/12/2013 00:13:26	1/12/2013 00:14:26	1/12/2013 00:15:26	1/12/201 00:16:2	13 1/1 26 00
Voltage(V)			272.00 V					
1 [1] AVG_V1	239.50 V		218.00 V					
📰 🎅 [1] AVG_V2	244.40 ¥		163.00 V					
[] [1] AVG_V3	234.90 V		109.00 V					
[1] MAX_V1	241.30 V		54.000 V					
			0.0000 V			_		_
Current (A)			54.000 A					
[1] AVG_A1	47.900 A		43.000 A					
📰 👰 [1]AVG_A2	48.370 A		32.000 A					
[1] AVG_A3	47.540 A		22.000 A					
[1] MAX_A1	48.140 A		11.000 A					
			A 0000.0		-	_		
React.Pwr(Q)			6.7k var					
[1] AVG_Q	4.0190k var		5.3k var		hours'	AVA-	An	1
📰 👰 [1] AVG_Q1	1.0700k var		4.0k var	- And	1 AAAAA	$\overline{\mathcal{N}}$	a voit	SALA.
[1] AVG_Q2	985.70 var		2.7k var		N	· V	V	
0 9 0 11 AVC 09	1 10001		1.3k var	CARLES AND A			大学社会	1788 FR

### 4 Displaying graph in full-scale

To display the selected graphs in full-scale.

All data recorded in the specific period can be displayed on graphs.



\*Depending on the size of the recorded data, it may take a long time to create full-scale data.

#### **5** Enabling auto-scrolling.

Start auto-scrolling.

Stop auto-scrolling.

Play Speed 1sec

#### To change the auto-scrolling speed.

Cursor moves in the specified speed automatically.

### 6 Changing the report cycle.

Report interval 1per min 🝷 🍓

#### To change the report cycle

Change the data display interval

#### Ex.

There is a data file recorded every second. When changing the report cycle of this file to "1 min", the data can be checked in the following time ticks.

### Actual data

Elapsed time 0000:00:01 0000:00:02 0000:00:03

#### 0000:60:00 Total 3600 data

#### After changing the display interval

Elapsed time 0000:01:00 0000:02:00 0000:03:00

0000:60:00 Total 60 data

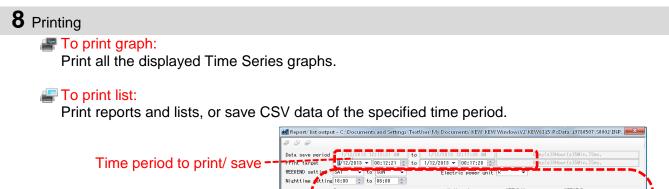
### 7 Copying to clipboard

#### 💼 To copy graph:

Copy all the displayed Time Series graphs to the clipboard as an image.

#### To copy list:

Copy the selected list data to the clipboard with headers for each item as tab-delimitated text data.

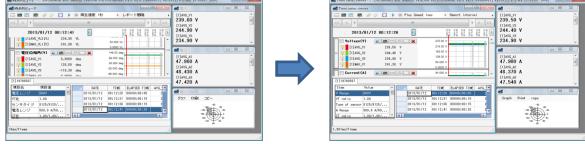


WEEKDAY 0.0000 - /kWh 0.0000 - /kWh WEEKEND 0.0000 💭 /kWh 0.0000 💭 /kWh Unit price Currency JPY(Japanese yen) Daytime JPY Nighttime JPY Test report 1/10/2014 Heade Parameters for Electricity usage report Footer Display (To print Electricity usage report P.64) Electric energy V Total period VEEKDAY Avg VEEKEND Ave 📝 Nighttime% 📄 Day & Night Avg 🔽 Crude oil equivalent VC02 equivalent \*Emission rate for unit 0.000561 tC02/kW ✓ Cost
✓ Electric power
Channel parameter
✓ Voltage 🔽 Active i Print report Print list CSV outp Print the Electricity usage report. Print the list. Save data in CSV format.

### **9** Arranging sub-graphs

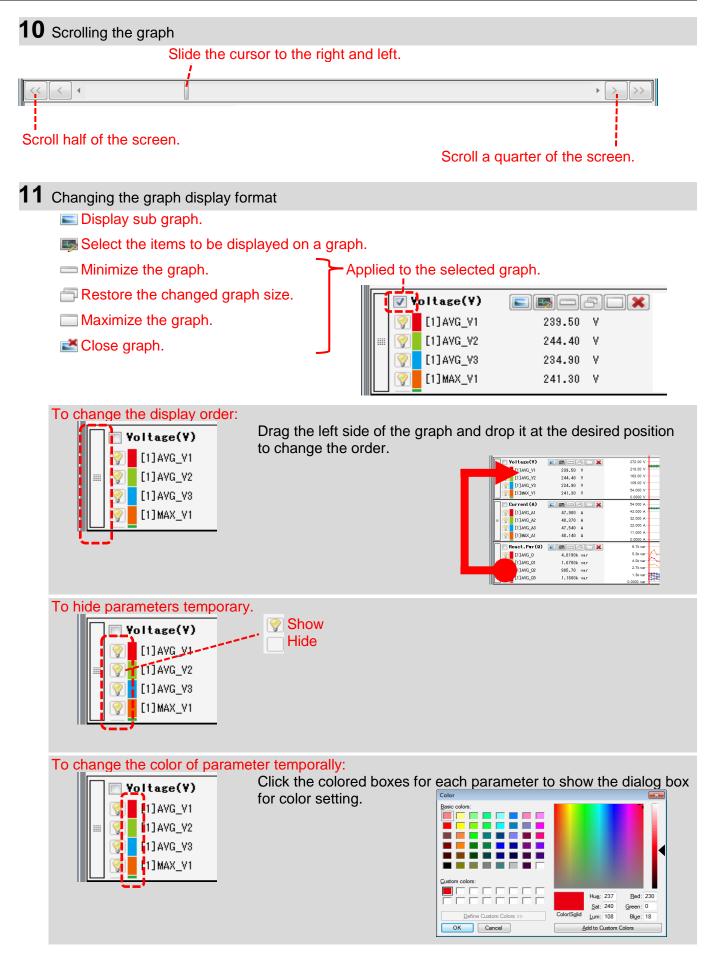
### To arrange the displayed sub-graphs:

Tidy up the displayed Time Series viewers and sub graphs.

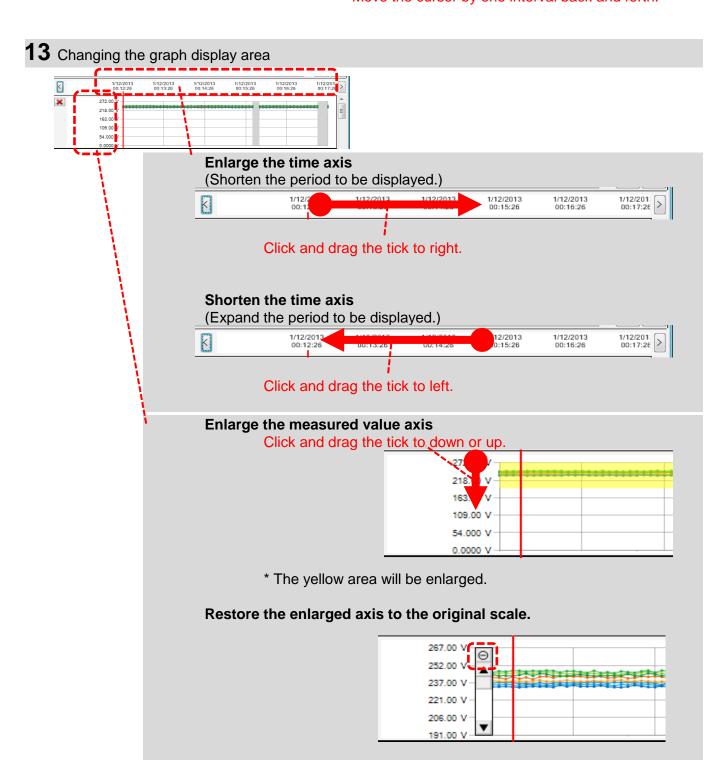


To close all the open sub graphs:

Close all the displayed sub graphs.



12 Moving the cursor 1/12/2013 1/12/2013 00:13:26 1/12/2013 1/12/2013 1/12/2013 K 1/12/2013 00:12:26 Voltage(V) 272.00 V 218.00 V 163.00 V [1]AVG\_V1 239.50 [1]AVG V2 244.40 \ [1] AVG\_V3 234.90 109.00 1 54 000 1 [1] MAX\_V1 241.30 V Move the cursor by one interval back and forth.

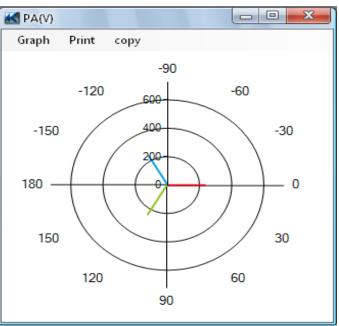


## STEP 3

### Sub graph display

### **1** Vector Display

Display the rms values and phase angles by vector for the cursor location. (only the voltage or current phase angles)

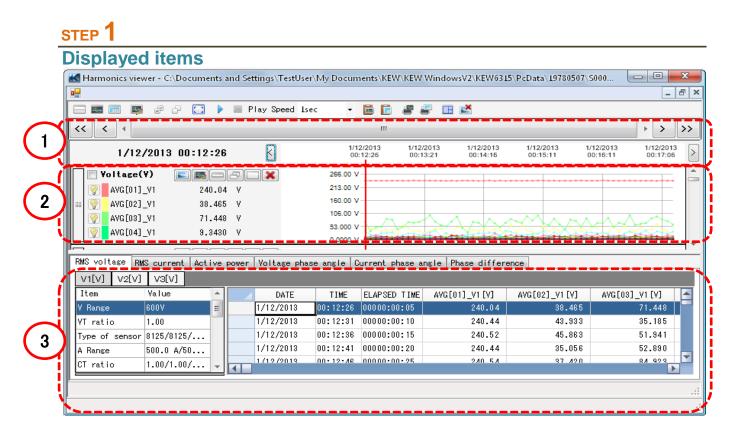


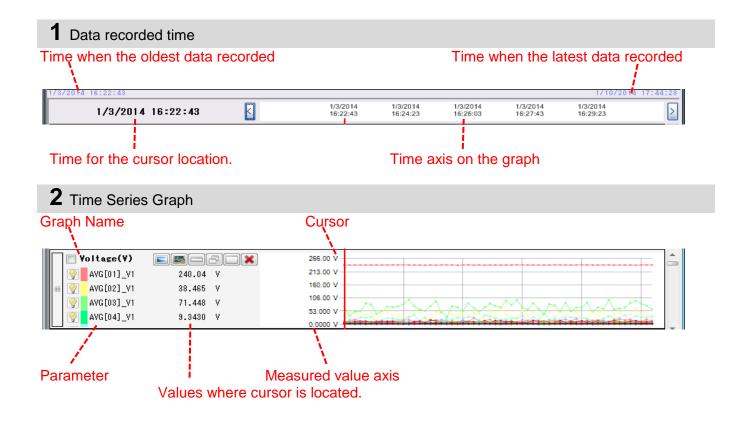
### 2 Cursor value

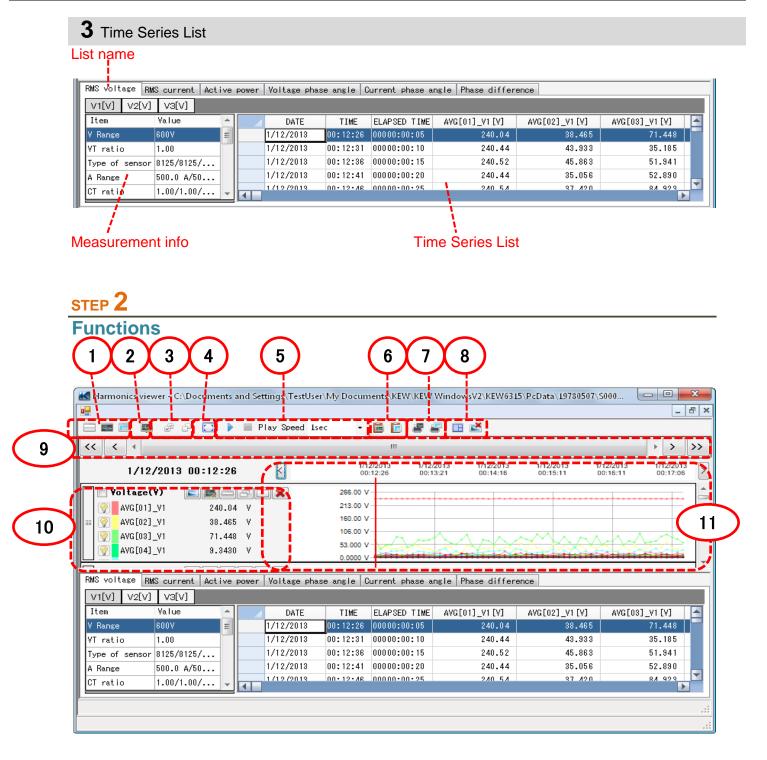
Display the measured values for the cursor location in the large window. (except for voltage and current phase angles)

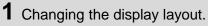
~	ourront pridoo drigioo,			
	K Voltage(V)			
	[1]AVG_V1 239.50 V	[1] AVG_V2 <b>244.40</b>	v	[1]AVG_V3 234.90 V
	[1]MAX_V1 241.30 V	[1]MAX_V2 <b>245.70</b>	v	[1]MAX_V3 236.60 V
	[1]MIN_V1 238.80 V	[1]MIN_V2 243.60	v	[1]MIN_V3 233.10 V
- 1				

### Harmonics data Analysis









To display graph and list on one screen at the same time:

Split the screen in two sections and display Tme Series graph in the upper area and list data in the lower area.

	A 6		b	Play Spr	ed free				e) m						
< < +	w. u.	6_6	-		00 1700									+ >	)>
2013,	/01/12 0	10:12	:26	$\leq$			13/01/12		01/12 3:21	2013/01/12 00:14:16	2013/01/1 00:15:11		13/01/12 0:16:11	2013/01/ 00:17:0	12 6
Voltage(	Y) 📧			-		266.00 \	v								
AVG[01].	V1	240.	.04	٧		213.00 \	1								
AVG[02]	V1	38.4	465	v		160.00 \									
Q AVG[03]	144					108.00 \	v .								
		71.4													
AVG[04]			448 430			53.000	· · · · · ·		$\sim$	$\lambda > \uparrow$	$\sim$	$\times$	$\rightarrow \rightarrow$		
AVG [04]	VI.	9.34	430	v		0.0000 \	v ini	¥5	$\sim$						
	VI.	9.34	430				v ini	¥5	<b></b>			***			
Voltage(	_VI	9.34 )[ <b>55</b> ][	430 	v	e phase	0.0000 \ 266.00 \	v v	phase a	nsie   I	Phase diffe					
Voltage RM	VI V) 🛌 S current	9.34 )[ <b>55</b> ][	430 	v 3][_]( <b>X</b> ]	e phase	0.0000 \ 266.00 \	v v	phase a	nsie   i	Phase diffe					
Voltage ( Voltage ( Voltage ( Voltage ( V1[V] V2[V]	VI V) 🛌 S current	9.34 )[ <b>55</b> ][	430 	v 3][_]( <b>X</b> ]		0.0000 \ 266.00 \	v V Durrent	phase a		Phase diffe			AVG[03]_1	vi (M	
Voltage( Voltage( S voltage RM /1[V] V2[V] tem	VI E current V3(V)	9.34 )[ <b>55</b> ][	430 	V Swer Voltag	TE	0.0000 \ 266.00 \ angle (	v V Durrent	DTIME			rence AvG[02]_		AVG[03]	v1 [V] 71.448	
VILV3 V2(V) Voltage RW V1(V) V2(V) tem Range	VI S current V3(V) Value	9.34 )[ <b>55</b> ][	430 	V Swer Volte	TE 1/12	0.0000 V 266.00 V angle 0 TIME	Current	D TIME		01]_V1 [V]	rence AVG[02]_	VI (V)			
AVG[04] Voltage RW Voltage RW VI[V] V2[V] Item Range T ratio	_V1 V) = C current V3[V] Value 600V 1.00	9.34 ) 📖 [ -   Act iv	430 	V Swer Voltag 2013/0	TE 1/12 1/12	0.0000 \ 266.00 \ angle 0 TIME 00:12:26	Current ELAPSI 00000:	D TIME 00:05		01]_V1[V] 240.04	rence AVG[02]_	V1 [V] 38.465	AVG[03]_Y	71.448	
AVG[04] Voltage (* S voltage (* Voltage (* S voltage (* Voltage (* Notage (* Notage (*) Notage	_V1 V) = C current V3[V] Value 600V 1.00	9.34	430 	V Swer Voltag 2013/0 2013/0	TE 1/12 1/12 1/12	0.0000 \ 266.00 \ angle ( TIME 00:12:26 00:12:31	Current ELAPSI 00000:	ED TIME 00:05 00:10 00:15		01]_V1[V] 240.04 240.44	rence	vi [v] 38.485 48.933	AVG[03]_1	71.448	
AVG[04] Voltage (* KS voltage	_V1 V) (=) S current V3[V] Value 600V 1.00 8125/8125,	9.34	430 	V Swer Voltag 2018/0 2018/0 2018/0 2018/0	TE 1/12 1/12 1/12 1/12	0.0000 \ 206.00 \ angle ( TIME 00:12:26 00:12:31 00:12:36	V Current ELAPSI 00000: 00000: 00000:	ED TIME 00:05 00:10 00:15 00:20		01]_V1 [V] 240.04 240.44 240.52	rence	V1 [V] 38.465 43.933 45.863	AVG[03]_1	71.448 85.185 51.941	

#### To display graph only

Time Series graphs are arranged and displayed on one screen.

	🕞 🛄 🕨 🗏 Play Speed	Lsec 🔹 🛅 🖉 🔐 🖽 🛤	
<< < <		m	· [ > ] >>
2013/01/	/12 00:12:26	2013/01/12 2013/01/12 2013/01/12 2013/01/12 2013/01/12 00:12:26 00:13:21 00:14:16 00:15:11 00:16:11	2013/01/12 00:17:06
Voltage(V)		266.00 V	
AVG[013_V1	240.04 V	213.00 V	
🕎 AVG[02]_V1	38.465 V	160.00 V	
AVG[03]_V1	71.448 V		
AVG[04]_V1	9.3430 V	53.000 V	
Voltage(V)		0.0000 V	
		218.00 V	
AVG[01]_V2	240.97 V	213.00 V	
	26.379 V	106.00 V	
AVG[03]_V2	91.424 V	53.000 V	~~~
Q AVG[04]_V2	12.174 V	0,000 V HTT THAT AT A THAT A T	
Voltage(V)		264.00 V	
AVG[01]_V3	239.41 V	211.00 V	
AVG[02]_V3	32.836 V	158.00 V	
AVG[03]_V3	66.068 V	106.00 V	<u>_</u>
AVG[04]_V3	6.1929 V	53.000 V	
AACTER41 A3	6.1323 V	0.0000 V +++++++++++++++++++++++++++++++	

#### 📼 To display list only

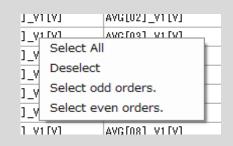
Show the list data on one screen.

			_							_
	d D 🗔		III P	lay Speed Ise	•< •	🔟 🔝 📲 着	P 💷 🛋			
×		_							> >	l
WS voltage RW	S current Act	ive	power	Voltage phas	e angle C	urrent phase ar	sle Phase differe	nce		
V1[V] V2[V]	V3[V]									
Item	Value	4		DATE	TIME	ELAPSED TIME	AVG[01]_V1[V]	AVG[02]_V1[V]	[Y] IV_[60] 2VA	Π
				2013/01/12	00:12:26	00000:00:05	240.04	38.465	71.448	1
VT ratio	1.00	11		2013/01/12	00:12:31	00000:00:10	240.44	43.933	35.185	1
Type of sensor	8125/8125/	11		2013/01/12	00:12:36	00000:00:15	240.52	45.863	51.941	1
A Range	500.0 A/50	11		2013/01/12	00:12:41	00000:00:20	240.44	35.056	52.890	1
CT ratio	1.00/1.00/	11		2013/01/12	00:12:46	00000:00:25	240.54	37.420	84.923	1
DC range	1.000 V/1	11		2013/01/12	00:12:51	00000:00:30	240.57	42.614	81.337	
Nominal V	1007	11		2013/01/12	00:12:56	00000:00:35	240.66	22.272	42.598	
Frequency	50Hz	11		2013/01/12	00:18:01	00000:00:40	240.33	56.894	52.408	
firing	3P3¥3A	11		2013/01/12	00:13:06	00000:00:45	240.55	47.821	72.508	
	0.03.'00			2013/01/12	00:13:11	00000:00:50	241.15	36.214	68.746	1
	5 sec.			2013/01/12	00:13:16	00000:00:55	240.52	35.989	72.911	1
REC Start	2013/01/12	11		2013/01/12	00:13:21	00000:01:00	240.95	26.710	81.450	
REC End	2013/01/12	11		2013/01/12	00:18:26	00000:01:05	240.70	34.606	100.08	
		11		2013/01/12	00:18:31	00000:01:10	240.36	48.023	73.249	J
ID no.	00-001			2013/01/12	00:13:36	00000:01:15	240.29	45.605	59.564	J
Serial no.	19780507	¥	4							6

- **2** Switching the displayed graphs
  - To display the other graphs Select the measured data you want to display on a graph.

🛥 🔲 🌧 All	/	Parameter	Item
- 🔽 🔶 Harmonics		AVG[01]_V1[V]	AVG[01]_V1[V]
		AVG[02]_V1[V]	AVG[02]_V1[V]
Active power(P[W])		AVG[03]_V1[V]	AVG[08]_V1[V]
- 🔽 🧼 Voltage phase ang e(		AVG[04]_V1[V]	AVG[04]_V1[V]
		AVG[05]_V1[V]	AVG[05]_V1[V]
		AVG[06]_V1[V]	AVG[06]_V1[V]
		AVG[07]_V1[V]	AVG[07]_V1[V]
		AVG[08]_V1[V]	AVG[08]_V1[V]
		AVG[09]_V1[V]	AVG[09]_V1[V]
	<b>V</b>	AVG[10]_V1[V]	AVG[10]_V1[V]
N 12	<b>V</b>	AVG[11]_V1[V]	AVG[11]_V1[V]
		AVG[12]_V1[V]	AVG[12]_V1[V]
		Initi	alize OK Cancel
heck for the grap	ohs	to be dis	splayed.

Right-click on the item list to select all items or diselect the selected items.



Check for the parameters to be displayed on a graph.

**3** Select/ Un-select the graphs

To select all the graphs

Check all the boxes for the graphs you want to display.

	🗗 💽 🕨 🔳 Play Spe	eed Isec 👻 🕻	🗟 📋 🖉	2 🗉	<b>2</b>			
<< < <			m					> >
1/12/201:	3 00:12:26	1/12/3 00:13	2013 1/1 2:26 00	2/2013 :13:21	1/12/2013 00:14:16	1/12/2013 00:15:11	1/12/2013 00:16:11	1/12/20 00:17:
Voltage(V)		266.00 V						
AVG[01]_V1	240.04 V	213.00 V-						
= 🧑 AVG[02]_V1	38.465 V	160.00 V -						
AVG[03]_V1	71.448 V	106.00 V-	A	h,	1	$\sim$	N.A	
AVG[04]_V1	9.3430 V	53.000 V					$\times$ $\times$	
		0.0000 V-						
√ Voltage(V)		266.00 V -						
AVG[01]_V2	240.97 V	213.00 V-		-				
= 🥎 AVG[02]_V2	26.379 V	160.00 V -						
AVG[03]_V2	91.424 V	106.00 V	M	$+\Lambda$		1.0	~ 1	ma
AVG[04]_V2	12.174 V	53.000 V -	12 10 TO	Arr a		and the		
		0.0000 V -						
✓ Voltage(V)		264.00 V - 211.00 V -			• • • • • • • • • • •			
AVG[01]_V3	239.41 V	211.00 V 158.00 V						
= 🥎 AVG[02]_V3	32.836 V							
AVC F091 V9	RR 088 V	106.00 V-		AA				A

#### To unselect all the graphs

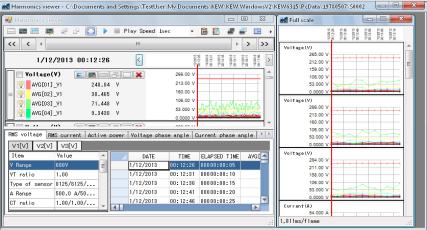
Uncheck all the checked boxes.

	🖓 🎦 🕨 🔳 Play Sp	eed Isec 👻 🖡	a 🗈 🖉 /	(m) (m)				
	🗗 💟 🕨 🔳 Play Sp	eed Isec 👻 🕻	🖥 🖹 🖉 i	-	<b>1</b>			
<< < 4			m					• >
1/12/201	3 00:12:26	1/12/2 00:12	2013 1/12/ 2:26 00:1	2013 3:21	1/12/2013 00:14:16	1/12/2013 00:15:11	1/12/2013 00:16:11	1/12/2
Voltage(V)		266.00 V						
AVG[01]_V1	240.04 V	213.00 V -						
🔤 🛜 AVG[02]_V1	38.465 V	160.00 V-						
AVG[03]_V1	71.448 V	106.00 V-	~~~			$\sim 1$	NA. 4.	$\wedge \land$
AVG[04]_V1	9.3430 V	53.000 V-		XZ			$\sim$	1
		0.0000 V-				****		
Voltage(V)		266.00 V						
AVG[01]_V2	240.97 V	213.00 V -						
🔲 🥎 AVG[02]_V2	26.379 V	160.00 V						
🧛 🔤 AVG [03]_V2	91.424 V	106.00 V	m	$-\Lambda$			~ 1	m.
AVG[04]_V2	12.174 V	53.000 V - 0.0000 V -	and the second	MA		Date Life		
Voltage(V)		264.00 V -						
		211.00 V	•••••		••••	•••••		
AVG[01]_V3	239.41 V	158.00 V						
AVG[02]_V3	32.836 V	106.00 V						
II I 🧼 🗖 AVCIOSI VS	RR NRR V				• •			

4 Displaying graph in full-scale

To display the selected graphs in full-scale.

All data recorded in the specific period can be displayed on graphs.



\*Depending on the size of the recorded data, it may take a long time to create full-scale data.

#### **5** Enabling auto-scrolling.

Start auto-scrolling.

Stop auto-scrolling.

Play Speed 1sec

#### To change the auto-scrolling speed.

÷

Cursor moves in the specified speed automatically.

### 7 Copying to clipboard

#### 💼 To copy graph:

Copy all the displayed Time Series graphs to the clipboard as an image.

#### To copy list:

Copy the selected list data to the clipboard with headers for each item as tab-delimitated text data.

#### 8 Printing

To print graph:

Print all the displayed Time Series graphs.

	Data save period1/12/21	ments and Settings\TestUser\My Documents\KEW\KEW	
Time period to print/ save		3 ▼ 00:12:21 💭 to 1/12/2018 ▼ 00:17:28 💭	
ader/ Footer for List printing	Header	Test report	1/10/2014
			Print list CSN

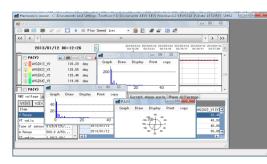
Save data in CSV format.

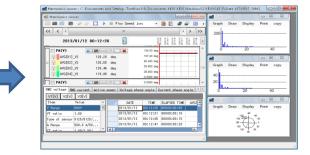
- \* Only the orders which have been selected and displayed on graphs are subject to print and CSV output.
  - [ 💵 To display the other graphs(P.23)]

### 9 Arranging sub-graphs

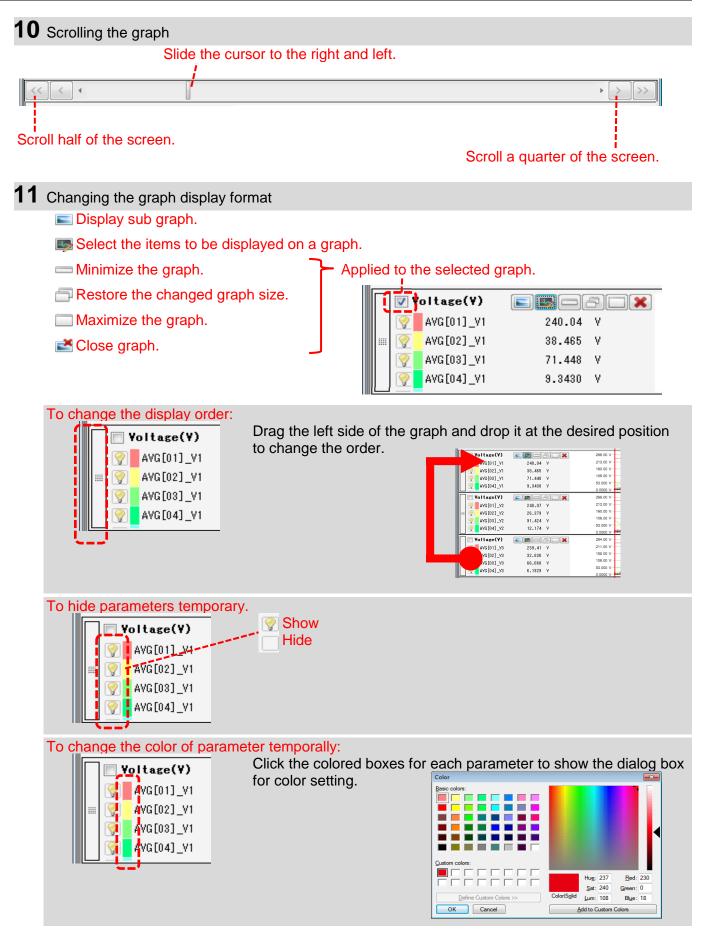
#### To arrange the displayed sub-graphs:

Tidy up the displayed Time Series viewers and sub graphs.

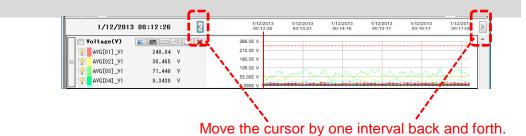




To close all the open sub graphs: Close all the displayed sub graphs.



### 12 Moving the cursor



#### **13** Changing the graph display area K 1/12/2013 × 213.00 160.00 106.00 53.000 Enlarge the time axis (Shorten the period to be displayed.) 13/01/12 2013/01/12 00:16:11 2013/01/12 00:17:06 2013 > K Click and drag the tick to right. Shorten the time axis (Expand the period to be displayed.) 2013/01/12 00:16:11 2013/01/12 00:17:06 K 2013/01/1 00:12:26 (12 > Click and drag the tick to left. Enlarge the measured value axis Click and drag the tick to down or up. 266.00 V 213.00 V 160.00 V 106.00 V 53.000 V 0.0000 V \* The yellow area will be enlarged. Restore the enlarged axis to the original scale. 126.00 Θ 107.00 ١ . 88.000 V 70.000 V 51.000 V 32.000

**14** Switching the measured values displayed on the list.

Tap on the tab at the top of the list.

RMS volta	ge RM:	S current	Act	ive	power	Voltage phas	e angle  C	urrent phase a
V1[V]	V2[V]	V3[V]						
Item		Value		*		DATE	TIME	ELAPSED TIME
V Range		600V		Ξ		1/12/2013	00:12:26	00000:00:05
VT ratio		1.00				1/12/2013	00:12:31	00000:00:10
Type of s	sensor	8125/8125	/			1/12/2013	00:12:36	00000:00:15
A Range		500.0 A/5	0			1/12/2013	00:12:41	00000:00:20
CT ratio		1.00/1.00	/	-		1/12/2013	00+12+46	00000-00-25

**15** Switching channels displayed on the list.

Tap on the tab at the top of the list.

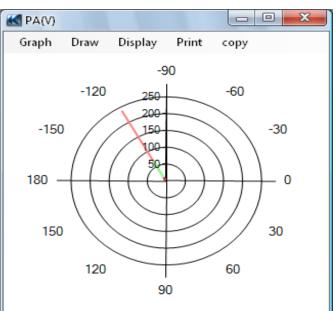
RMS volt	age RM	S current	Act i	ve	power	Voltage pha	se angle  C	urrent phase ar
V1[V]	V2[V]	V3[V]						
Item		Value		۰.		DATE	TIME	ELAPSED TIME
V Range		600V		Ξ		1/12/2013	00:12:26	00000:00:05
VT ratio	)	1.00				1/12/2013	00:12:31	00000:00:10
Type of	sensor	8125/8125	7			1/12/2013	00:12:36	00000:00:15
A Range		500.0 A/5	0			1/12/2013	00:12:41	00000:00:20
CT ratio	)	1.00/1.00	/	Ŧ		1/12/2019	00+12+48	00000.00.25
	·			*				

### STEP 3

## Sub graph display

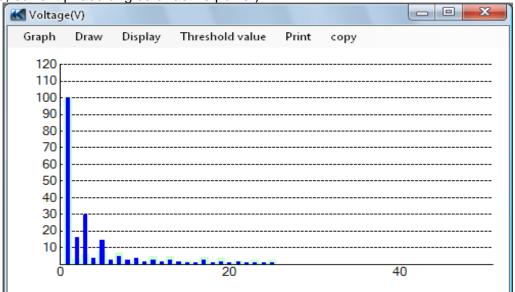
1 Vector Display

Display the rms values and phase angles by vector for the cursor location. (only the voltage or current phase angles)



### **2** Harmonics graph

Display the rms values of each order for the cursor location on the bar graph. (only the voltage, current phase angles or active power)

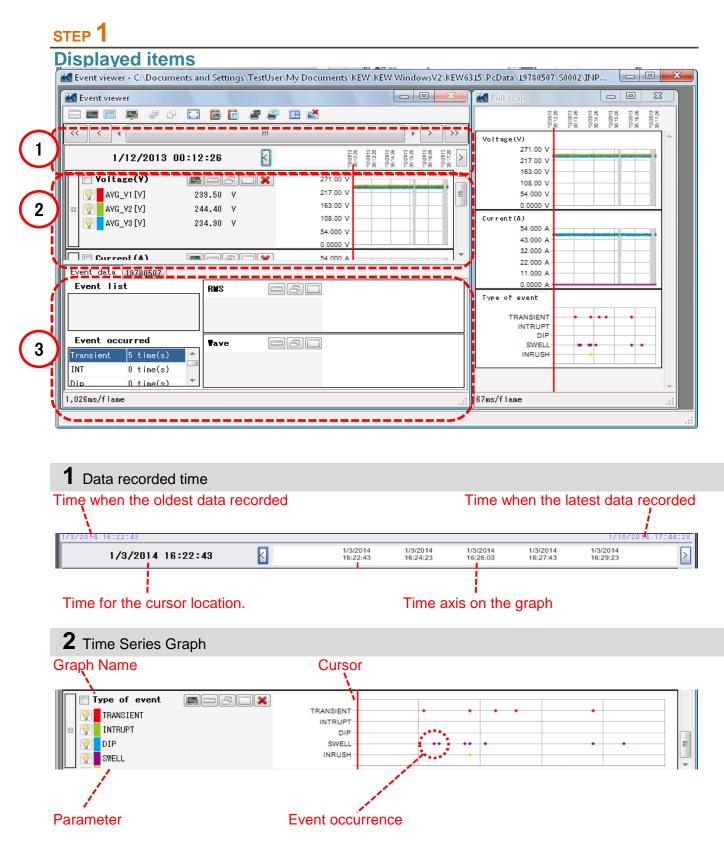


### **3** Phase difference graph

Display the phase differences of each order for the cursor location on the bar graph. (only the voltage or current phase angles)

one pridoo	ungiou	·/			
🛃 PA.Diff	(VA)				x
Graph	Print	сору			
180°					
0°				 	
-180°					
	D		20	40	

### Power Quality Event data Analysis



#### 3 Detailed Event data RMS graph Event 18700507 Event 1 ist 1/12/2013 00:14:10.502 1/12/2013 00:14:10.502 1/12/2013 00:14:10.578 1/12/2013 00:14:10.578 1/12/2013 00:14:10.578 1/12/2013 00:14:10.578 1/12/2013 00:14:10.578 1/12/2013 00:14:10.528 1/12/2013 00:14:10.528 RMS 556.00k1 667.00k A START 119.20 Vpeak 💎 🛛 V1 [V] START 101.40 Vrms START 57.190 Arms 542.00k V 650.00k A V2 [V] V3 [V] A1 [A] 528.00k \ 634.00k A END END END ----Arms 112.20 Vpeak 102.60 Vrms 514.00k V 617.00k A A2 [A] A3 [A] 500.00k1 600.00k A 487.00k V 584.00k A Event occurred Tave 925.00 181.00 / 2 V1 [V] 2 V2 [V] 2 V3 [V] 2 A1 [A] Tran INT 0 time(s) 0 time(s) 6 time(s) 570.00 11.00 A Dip 214.00 42.000 A Swell I Inrush C 1 time(s) urrent A2 [A] A3 [A] -28.000 A -141.00 -97.000 A -497.00 -852.0 Total number of occurrence Waveform graph of each event List of Power quality event Event data 19780507 Event list 1/12/2013 00:14:18.330 START 119.20 Vpeak Transient 1/12/2013 00:14:18.562 Swell START 101.40 Vrms 1/12/2013 57.190 Arms 00:14:18.578 Inrush Current START ----Arms 1/12/2013 00:14:18.626 Inrush Current END 1/12/2013 00:<mark>14:18.730 Transien</mark>t END 112.20 Vpeak 1/12/2013 00:14:19.126 Swell END. 102.60 Vr**m**s Value measured Occurred date Occurred event at the occurrence Start/ End Occurred time

STEP 2	
Functions	
1234567	lowsV2\KEW6315\PcData\19780507\50002\INP
🔣 Event viewer	E Sale E Sale
	6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102510 6102500 6102500 6102500 6102500 6102500 6102500 6102500 6100500 6100500 61000000000000000000
1/12/2013 00:12:26	271.00 V 217.00 V 217.00 V
Yoltage(Y)	163.00 V
Image: Wide wide wide wide wide wide wide wide w	54.000 V
	Current (A)
[V]         AVG_V3[V]         234.90         V         106.00         V           54.000         V	54.000 A
0.0000 V	43.000 A
Current (Å) ((%) (%) (%) (%) (%) (%) (%) (%) (%) (	22.000 A
Event data 19780507	11.000 A
Event list RWS COLOR	0.0000 A
	Type of event
	DIP
Event occurred Tave	SWELL + + +
Transient 5 time(s)	INRUSH
INT 0 time(s)	
Dip <u>A time(s)</u>	·
1,026ms/flame	67ms/flame

1 Changing the display layout.

#### To display graph and list on one screen at the same time:

Split the screen in two sections and display time series graph in the upper area and detailed

event data in the lower area.

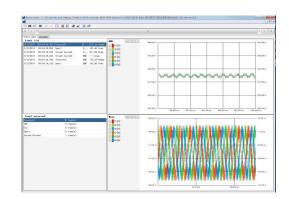
Event viewer - Cribooanent	and Settings (Testils	er My Document/ KEN	ARW Windows	V2 XEMAILS PCIN	019704517.504	2 DIP56002 XEW - JE+	et rieve)		0.0 -0
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ા <b>લાટા છ</b> ૨૯૯ લોકોર		0.4							17 12 120
		3133	673	112210		1122113	1/02/00	1/12/2010	5520010
1/12/2013 00:			28	00:13.26		0114.20	00.75.20	08.76.26	081726
		271.08 V							
	240.88 Y	203.00 V							
	245.38 Y	100.00 V							
(x) (x(_2/M_ 🔆	234.59 V	04.000 V							
		0.000 Y							_
Current(A)		54.001 A							_
AVE ALEN	48,199 6	43.000 A							
	48.228 6	12.001 A							
	42,583 6	22.000 A							_
AVE AN [A]		11.008 A							_
Three of event		0.0000 A							
		TRANSPORT							
TRACIENT		0.78.077							
DITENT		0.0							
O3P		DVILL-							
SWELL									
Event data INCOMER-									
1/12/2012 10:10:10:10:221 2		2 110.22 Yeards	880		DA HAY				BET DOK A
1/12/2012 01:14:14.562 1		S 101.40 Year	😳 🖬 (V)		Marrie L				100.000 0
1/17/2010 00:10:10:520 3		5 \$7.183 dean	2 REV2						
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COLUMN BUILDING 3		DE 112.23 Yeards	(A) 14 👷		TAURY .	$\sim$			<u> </u>
1/12/2012 00.14.14.12.128 2		DE 102.00 Year	2 R(A)		Deliky I-				STITIOKA.
VIDENCE INTRODUCED IN	9911	00 102.00 1185	(A) EA 👳		mmy				900 00 a
					ALC: NO. Y. L.	100.007.00	THE DESIGN AND ADDRESS OF	BRAT IN BRAT	1.000.000.00
Event accurred			1	(111) (100) (100)					
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M	0 time(s)		2 I I D D		ana y 🖡	1100.0444			111.02 A
) in	il time(s)		3 et (v)				19 <b>8 - 19</b> - 19 <b>8</b> - 19		
Devi I	R Line(a)		A 1002		294.00 V		*******		42.000 A
Innah Gurrent	1 time(s)		(A) IA 🦉				IN Y Y MARK		M
	- 1.000037		42(6)			1000	1111111111		-44,000 A
			643 EA3		-97.00 V	- A - 1			47 000 A
					-and on y C		71/20.4	120.200 va	-167.00 A

#### To display graph only

Time Series graphs are arranged and displayed on one screen

Akc)10         Akc)1         max
A 100.04 A 1
NCARD 86.277 A 2000 A 862.610 07.69 A 2000 A 2000 A 964.601 A 1000 A
Description         Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>

To display detailed event data only Show the event data on one screen.

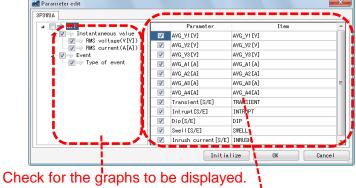


### **2** Switching the displayed graphs

To display the other graphs

Select the measured data and event types

you want to display on a graph.



Check for the parameters to be displayed on a graph.

### 3 Select/ Un-select the graphs

To select all the graphs

Check all the boxes for the graphs you want to display.

	<c c="" i<="" th=""><th></th><th></th><th></th><th></th><th></th><th></th><th><b>)</b> 2</th></c>							<b>)</b> 2
	1/12/2013	00:14:16 <	112/2013 80.12/28	1122013 00.13(26	\$12:2013 00.14:20	1/12/2013 10:15:26	1/12/2013 10:16:26	1/12/2312
	Voltage(V)		271.00 V					
Max         Max         Max         Max           V Correction         Max         Max         Max           V Correction <th></th> <th>240.80 V</th> <th>217.00 V</th> <th></th> <th></th> <th></th> <th></th> <th></th>		240.80 V	217.00 V					
Image: Second		245.20 V						
Corrent (a)     Corrent (	AVS_V9 [V]	224.50 V						
	U -							
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The of result with a second se								
Transition         Transition           V         Transition         Image: State Stat					<mark></mark>			
V Investitivit         NTN/FT           0 0 Dathert         0 0           0 00 0 0000         0 00           0 00         0 000								
0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0				•		•	•	
			DIP					

#### To unselect all the graphs

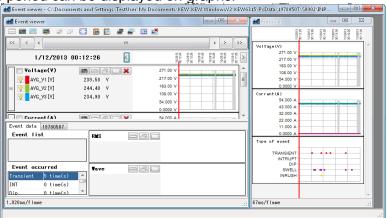
Uncheck all the checked boxes.

9
« « «
1/12/2013 1
Image: second

### **4** Displaying graph in full-scale

#### To display the selected graphs in full-scale.

All data recorded in the specific period can be displayed on graphs.



### 5 Copying to clipboard

#### To copy graphs:

Copy all the displayed Time series graphs to the clipboard as an image.

#### To copy lists:

Copy the selected list data to the clipboard with headers for each item as tab-delimitated text data.

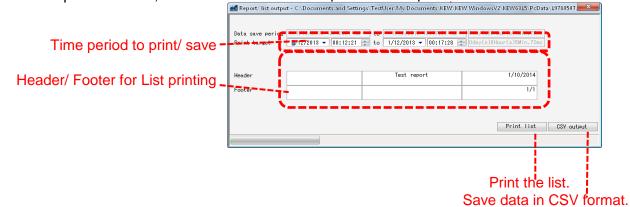
### 6 Printing

#### To print graph:

Print all the displayed Time Series graphs.

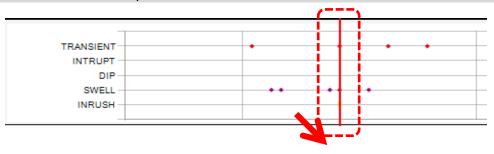
#### To print list:

Print reports and lists, or save CSV data of the specified time period.



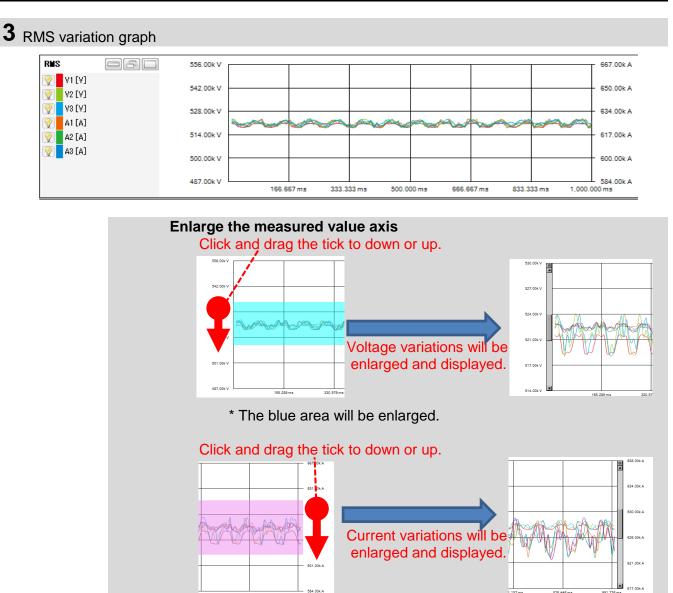
### **STEP 3** Show the list of Power quality event

### 1 Locate the cursor on the event occurred point.



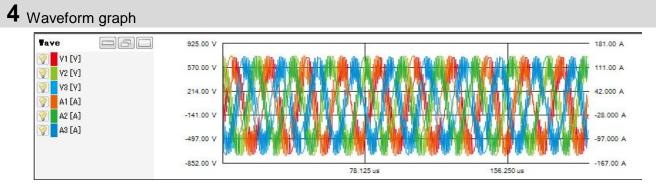
**2** Select the event list.

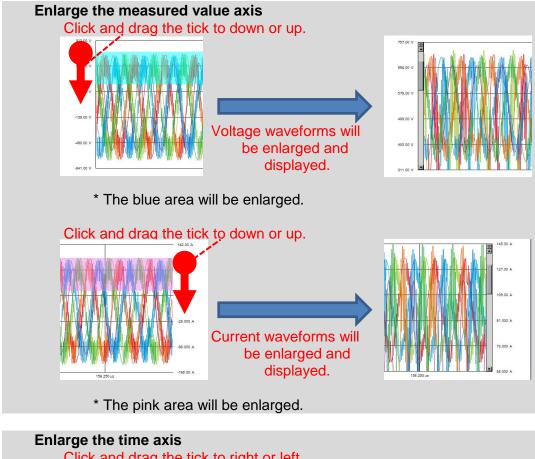
Event data					BIS
1/12/2013	00:14:18.330	Transient	START	119.20 Vpeak	
1/12/2013	00:14:18.562	Swell	STABT	101.40 Vrms	
1/12/2013	00:14:18.578	Inrush Current	START	57.190 Arms	V3 [1
1/12/2013	00:14:18.626	Inrush Current	END	Arms	A1 [/
1/12/2013	00:14:18.730	Transient	END	112.20 Vpeak	A2 [/
1/12/2013	00:14:19.126	Swell	END	102.60 Vrms	A3 [4
Event oc	curred				Tave
Transient		5 time(s)			V1 EV
INT		0 time(s)			V2 [V
Dip		0 time(s)			🚫 🛛 V3 [V
Dip Swell		0 time(s) 6 time(s)			V3 [\ V3 [\ A1 [/
	rent				



\* The pink area will be enlarged.

## Data Analysis







\* The green area will be enlarged.

## **Data Analysis**

### Analysis complying with EN50160

#### <Required settings for analysis according to EN50160>

Setting	Setting value	Mandatory
1. Wiring	3P3W3A(+1A), or 3P4W(+1A)	
2. Recording item	Power+Harmonics+Event	0
<ol><li>Recording method</li></ol>	Manual, or Continuous	0
4. THD calculation	THD-F	
5. Hysteresis	2%	
6. Swell	110%	
7. Dip	90%	
8. Int	1%	

\* Setting values for 1. and 4. through 8. should be the same as specified above. Otherwise, a warning message "Not complying with EN50160." is displayed.

#### <Recording interval and test items that can be output>

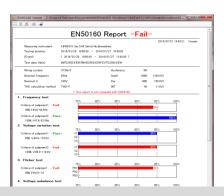
Test item	10 sec or less	15 sec or more
Frequency	0	
Voltage variation	0	
Flicker	0	
Voltage unbalance	0	
Harmonics	0	
Swell	0	0
Dip	0	0
Int	0	0

#### STEP 1 **Displayed items** EN50160 Viewer - C:¥Users¥TestUser¥Documents¥KEW¥KEW WindowsV2¥KEW6315¥PcData¥demodemo¥S.. EN50160 Report -Fail-2014/07/31 13:48:21 Create 1 KEW6315 Ver.9.99 Serial No.demodemo Measuring instrument Testing duration 2014/01/20 10:00:00 - 2014/01/27 10:00:00 ( 2014/01/20 10:00:00 - 2014/01/27 11:00:00 ) (Event) Test data file(s) INPS2083.KEW/INHS2083.KEW/EVTS2083.KEW 1P2Wx3 Wiring system Hysteresis 5% Nominal Frequency 50Hz 100% (100.0\) Swell Nominal V 100V Dip 90% (90.0V) Prequency test - Frequency test2 - Voltage variation test1 - Voltage var Frequency test1 2014/01/20 10:00:00 to 2014/01/27 10:00:00 7day(s) Require ments 2 In 95% of the period, frequency should be between 49.50Hz and 50.50Hz. Test item(s) Required Result Average(Hz) 50.00 50.05 Min(Hz) >=49.50 49.55 ~ Max(Hz) <=50.50 51.41 94 x × GOOD Period (%) >=95 Total number of samples 60480 Number of GOOD 57361 Fail

# Data Analysis

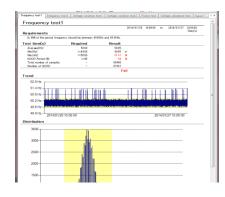
## 1 List display

A list of all results are displayed.



## 2 Details display

The details of each result can be checked.



$\gamma\gamma\gamma$				
EN50160 Viewer / C·¥Lle	ers¥TestUser¥Document	ts¥KEW¥KEW WindowsV2¥	KEW6315¥P	Data¥demodemo¥S
	ers+restoser+bocamen	ISTREWTREW WINDOWSV2+	KEW0313+P0	
	EN501	60 Report	-Fail-	-
				2014/07/31 13:48:21 Create
Measuring instrument	KEW6315 Ver.9.99 Seria	al No.demodemo		
Testing duration	2014/01/20 10:00:00	- 2014/01/27 10:00:00		
(Event)	( 2014/01/20 10:00:00	) - 2014/01/27 11:00:00 )		
Test data file(s)	INPS2083.KEW/INHS20	83.KEW/EVTS2083.KEW		
Wiring system	1P2Wx3	Hysteresis	5%	
Nominal Frequency	50Hz	Swell	100%	(100.0V)
Nominal V	100V	Dip	90%	(90.0V)
Frequency test1 Frequency	v test2 Voltage variation	test1 Voltage variation test2	2 Flicker test	t Voltage unbalance test Harm
Frequency test	t1			
		2014/0	1/20 10:00:00	
Require ments				7day(s)
In 95% of the period, freq	uency should be between 49	9.50Hz and 50.50Hz.		
Testitem(s)	Required	Result		
	50.00	50.05		
Average(Hz) Min(Hz)	>=49.50	49.55 🖌		

# Data Analysis

#### 1 Change the display layout.

#### To display a list of results and the details in one screen.

Split the screen in two sections and display a list of results in the upper area and the details in the lower area.

	EN501	60 Report	-Fail-	-	
				2014/07/31 134821 Cre	ate
Measuring instrument	KEW6315 Ver.9.99 Serial	No.demodemo			
Testion duration	2014/01/20 10:00:00 -	2014/01/27 10:06:00			
(Event)	6 2014/01/20 10:00:00	- 2014/01/27 11/00/00	3		
Test data file(s)	INPS2003 KEW/INHS200	3 KEW/EVTS2083 KEW			
Wiring system	1P2Wx8	Hysteresis	5%		
Nominal Frequency	50Hz	Swell	100%	(100.0V)	
Nominal V	100V	Dip	\$0%	(90.0V)	
		· · ·			
Frequency test1 Frequency t	est2 Voltage variation to	· · ·			ie me
	est2 Voltage variation to	· · ·			ie me **
Frequency test1 Frequency t	est2 Voltage variation to	ost1 Voltage variation t		t Voltage unbalance test H	ie m
Frequency test1 Frequency t	est2 Voltage variation to	ost1 Voltage variation t	est2 Flicker test	t   Voltare unbalance test   H	ie me **
Frequency test1 Frequency t Frequency test1	est2   Voltaire variation to	sst1 Voltage variation t 201	est2 Flicker test	t Voltage unbalance test H	ie m <sup></sup>
Frequency test1 Frequency test1 Frequency test1 Requirements	est2   Voltaire variation to	sst1 Voltage variation t 201	est2 Flicker test	t Voltage unbalance test H	ar me ***
Frequency test1 Frequency t Frequency test1 Requirements In 55% of the period, freque Test item(s) Average(fta)	ncy should be between 491 Required 50.00	sot1 Voltage variation t 201 SIHz and 50 SIHz. Result 50.05	est2 Flicker test	t Voltage unbalance test H	ir m
Frequency test1 Frequency test1 Requirements In 55% of the period, freque Test item(s) Average(ft) Mir(Hz)	ricy should be between 49.0 Re quired 50.00 > 49.50	0011 Voltage variation t 201 50Hz and 50.50Hz. Result 50.05 49.55	est2 Flicker test	t Voltage unbalance test H	ir m***
Frequency test1 Frequency test1 Requirements h 55% of the period, freque Test item(s) Average(hz) Mer(hz) Mer(hz)	ncy should be between 49.1 Re quired 50.00 >>49.50 (<50.50	st1 Voltage variation t 201 SH4z and 50.5H4z. Result 50.05 49.55 51.41	est2 Flicker test	t Voltage unbalance test H	ar m***
Frequency test1 Frequency test1 Requirements In 55% of the period, freque Test item(s) Average(ft) Mir(Hz)	ricy should be between 49.0 Re quired 50.00 > 49.50	0011 Voltage variation t 201 50Hz and 50.50Hz. Result 50.05 49.55	est2 Flicker test	t Voltage unbalance test H	ar m***

#### To display list only.

A list of result is displayed over the entire viewer.

	EN50	0160 F	Report	-Fail-	-	
					2014/07	7/81.18.48.21 Create
Measuring instrument	KEW6315 Ver.9.99 S	erial Nodemod	lemo			
Testing duration	2014/01/20 10:00:0	0 - 2014/01	1/27 10:00:00			
(Event)	( 2014/01/20 10.0	0.00 - 2014/	01/27 1100.00 )			
Test data file(s)	INPS2083.KEW/INH	52083.KEW/EV	TS2083.KEW			
Wring system	1P2Wx8		Hysteresis	536		
Nominal Frequency	50Hz		Swell	100%	(100.0V)	
Nominal V	100V		Dip	10%	(90.0\/)	
THD calculation method	THD-F		INT	156	(1.0\/0	
	* This rep	et is not comp	lied with EN50160			
1. Frequency test						
Oriteria of indement1 -Fail	75%	80%	85%	90%	95%	100%
95% £49.5-50.5Hz			_	_	94%	
Criteria of indement2 -Pas					_	_
100N f 47.0-52.0Hz	· •					100%
2. Voltage variation test						
	75%	80%	85%	90%	95%	100%
Oriteria of judgment1 -Pas 95K V:90.0-110.0V	e- V1 V2 -				95%	

#### To display the detailed data only.

The detailed data is displayed over the entire viewer.

EN50160 Viewer - C:¥Users)	TestUserVDocuments	KEWKEW WI	dowsV2¥	KEW6315¥PcD	ata¥demodemo¥	s 📖 🕮 💻	x
= 2 🕫 🐵 🖨							
							\$
Frequency test1 Frequency tes	12 Voltage variation te	st1 Voltage var	iation test2	Flicker test	Voltage unbalance	test Harmon	4.₽
Frequency test1							
Frequency test			2014/01	/20 10.00.00	to 2014/01/27	10.02.00	
Requirements			2014/01	10.00.10	10 2010/01/21	7day(s)	
In 35% of the period, frequence	v should be between 49.5	IHz and 50 50Hz					
Test item(s)	Required	Result					
Average(Hz)	50.00	50.05					
Min(Hz)	>=49.50	49.55					8
Max(Hz)	<=50.50	51.41	÷				
GOOD Period (N)	>=95	94	÷.				
Total number of samples	-	50480					
Number of GOOD	-	57361					
		1	fail				
Trend							۳
52.0 Hz							
51.4 Hz							
		1.11			i i hde h		
50.8 Hz		<b>.</b>			+		
50.2 Hz	مرا استعليها المحلمية الم	and the state line	and in the second	and the second	فالمرو والمالي ومقاليه والم		
50.2112							
49.6 Hz - Mittate Contractor	ALLOW CONTRACTOR	deter to a might change it.	an and have	and the state of the state of the	Cashi menteratia was	ade	
49.0 Hz							
49.0 Hz 2014/01/20 1	0.00:00			201	14/01/27 10:00:00	_	
Distribution							
							٣
			_				_

### **2** Switch the report parameters

To open the Parameter window Setting window for report parameters is displayed. (Step 2 About each parameter ...P.41)

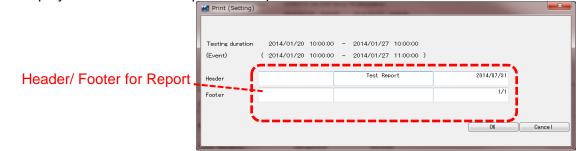
Report parameter		
Select all Desselect Data save period 2014/01/20 10:00:00 ~ 201 Interval data	14/01/27 11:00:00	7day(s)1Hour(s)0Min.ISec.
Testing duratio:2014/01/20 = 10:00:00  o  ~	2014/01/27 🐨 10:00:00 🔄	7dey(s)0Hour(s)0Min.ISec.
I Frequency test Required period(0)	Required range (variation 10	
Criteria of judgement 1 95 💮 🛪	-1 🗄 x ~~	1 2 8
Criteria of judgement2 100 🔶 %	-6 + x ~	4 🐟 🛪
2. Supply voltage variation tes Required period(30	Required range (variation 30	
Criteria of judgement1 95 🔄 %	-10 🛧 ~	10 🐟 🛪
Criteria of judgement2 100 (b) %	-15 💩 🛪 ~	10 💠 🛪
2. Flicker test Required period(%)	Required range (Pit)	
🕼 Criteria of judgment 🛛 🕸 🔅	0.00 🐟	1.00
4. Voltage unbalance test Required period30	Required range (unbalance ratioN)	
Criteria of judgment 95 🔅 %	0 🚖 🛪 ~	2 🔄 🛪
	Required range (distortion \$0	
🕼 Criteria of judgement1 🛛 🕸 😒	0 🔄 🛪 ~	8 🐟 🕱
🕼 Criteria of judgement2 🛛 🕸 🙊 🕫	Allowable range (rate of content\$)	
	2 to 5th: 2.0 🛧 5.0	
	6 to 10th 0.5 🛧 5.0 🛧 0.5	
	11 to 15th: 3.5 🐟 0.5 🐟 3.0	
	16 to 20th: 0.5 1 2.0 1 0.5	
	21 to 25th: 0.5 🛧 0.5 🛧 1.5	0.5 🛧 1.5 🛧 X
Import Export Initial value		OK Cancel

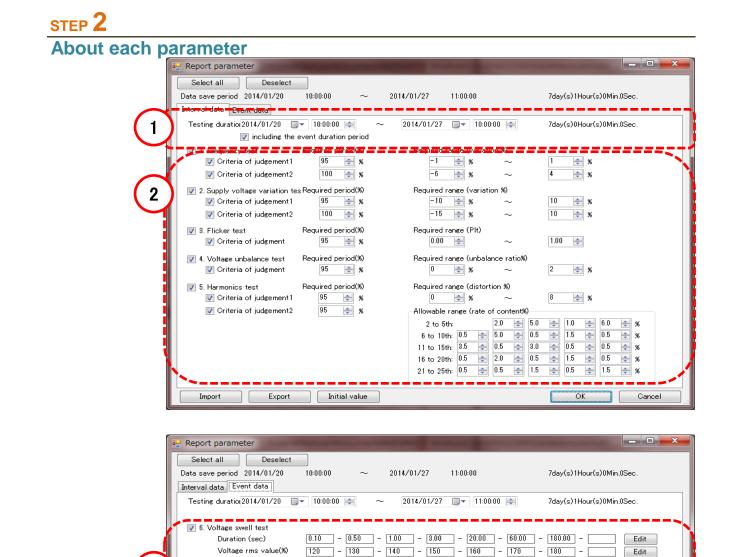
## **Data Analysis**

### 3 Print

#### To print report

The displayed EN50160 test report will be printed out.





Data Analysis

3

📝 7. Voltage dip test

📝 8. Int test

Duration (sec) Voltage rms value(%)

Duration (sec)

0.10 - 0.50 - 1.00 - 3.00 - 20.00 - 60.00 - 180.00 -

60 - 100 - 140 - 180 - 360 - 1000 - - -

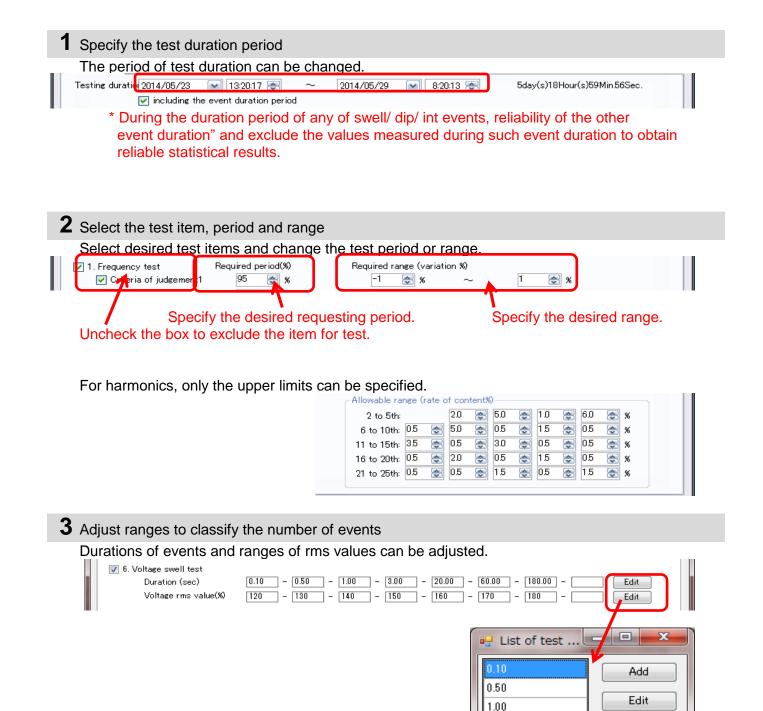
10 - 20 - 30 - 40 - 50 - 60 - 70

Edit

Edit

Edit

- 80



3.00

20.00 60.00 180.00 Delete

Cancel

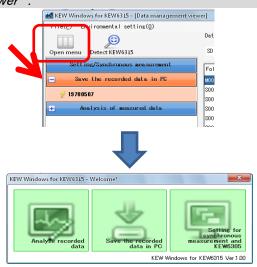
Close

	_
--	---

### Data import from SD card to PC

## STEP 1 Open the Menu

**1** Click the [Open menu] icon on the "Data management viewer".



## STEP 2

### Show the list of data stored in SD card.

1 Click the [Save the recorded data in PC] icon.



Open menu Detect KEW6315	SD card - 🚱 📥
Sett ins/Synchronous acasurement	Update Start downloading
Setting/Synchronous measurement	Folder - Size Updated
<ul> <li>Save the recorded data in PC</li> </ul>	W0003 13 KB 2013/10/17 14:43:50
<i>9</i> 19780507	S0000 6 KB 2013/10/17 14:43:32
+ Analysis of measured data	S0001 702 KB 2013/01/10 7:19:16
<ul> <li>Analysis of measured data</li> </ul>	S0002 1,766 KB 2019/01/12 0:12:16 S0007 1,241,146 KB 2014/01/08 14:24:24
	30007 1,241,146 KB 2014/01/08 14224224 30017 1,129,011 KB 2014/01/08 14217:30
	S0049 148 KB 2013/01/03 8:36:42
	30050 4 KB 2013/01/03 8:88:34
	S0051 142 KB 2013/01/03 8:38:48
	S0052 144 KB 2013/01/03 8:39:06
	S0053 153 KB 2013/01/03 8:40:16
	S0054 142 KB 2013/01/03 8:40:42
	S0055 155 KB 2013/01/03 8:49:10
	S0056 321 KB 2018/01/03 8:49:40 S0057 167 KB 2013/01/04 7:31:26
	30057 167 KB 2013/01/04 7.31226 30058 142 KB 2013/01/05 10:03:48
	S0059 130 KB 2013/01/05 10:04:28
	S0076 288 KB 2014/01/08 14:27:42
ownloads the data from KEW6315 to PC.	

2 Click and select "SD card"

SD card .	
KEW Windows for KEW6315 - [Data management view]	wer]
File(E) Environmental setting( <u>0</u> )	
	Data Domioad
Open menu Detect KEW6315	SD card - 🙀 📥
Setting/Synchronous measurement	Update Start downlo <mark>i</mark> ding
	Folder 🔄 🗤 🔤 🔤 🔤 👘
Save the recorded data in PC	M0003 19 KB 2013/10/17 14:43:50
<i>♀</i> 19780507	S0000 6 KB 2013/10/17 14:43:32
2 10100001	00001 700 WD 0010/01/10 7.10.10

## STEP 3

Save the recorded data to PC.

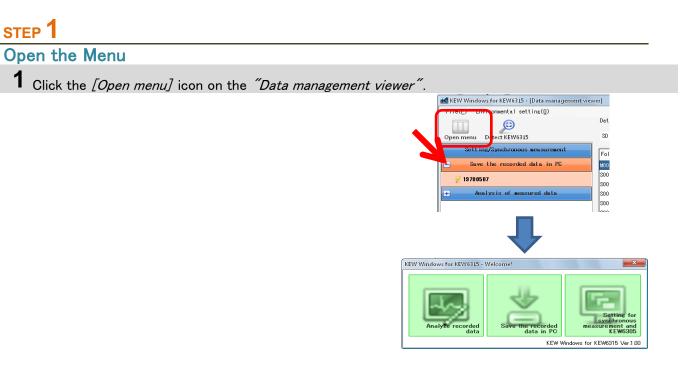
Op

æ



Itel (E)       Environmental setting(2)         ipen menu       ipen menu         Sett Ling(3)       D card         Sett Ling(3)       ipen menu         ipen menu       ipen menu         Sett Ling(3)       D card         ipen menu       ipen menu         Sett Ling(3)       Ipen menu         Sett Ling(3)       Ipen menu         ipen menu       ipen menu         Sett Ling(3)       Ipen menu         Sett	- • ×
Determent       Determent         Sett ing/Synchronous accurrent         Sett ing/Synchrous accurrent         <	
per menu Deck EW335 Sattinz/Suchronous seasureant Save the recorded data in PC y 1978607 Talaysis of assared data Sol card  Puer Size Undeted Dot 1, 24, 146 Hz 2014/10/17 14:4355 Subor 1, 24, 146 Hz 2014/10/10 Hz;25;24 Subor 1, 24, 146 Hz 2014/10/10 Hz;25;24 Subor 1, 24, 146 Hz 2013/0/10/17 8:43:10 Subor 1, 24, 146 Hz 2013/0/10/18 14:27:40 Futor Futor	
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Save Like recorded data in PC         # 19706507         Analyzis of seasured data         Source       1,768 HS 2013/10/17 14:45:25         Source       1,768 HS 2013/10/17 2011:18         Source       1,768 HS 2013/10/17 2011:18         Source       1,241.168 HS 2013/01/12 011:216         Source       1,241.168 HS 2013/01/08 14:24:24         Source       1,42 HS 2013/01/08 14:21:42         Source       1,42 HS 2013/01/08 14:21:42         Source       1,42 HS 2013/01/08 14:21:42         Source       1,44 HS 2013/01/08 14:21:42         Source       1,41 HS 2013/01/08 14:21	
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Analyziz of measured data       5002       1,766 KB 2013/01/12 0:12:16         5007       1,214,146 KB 2014/01/08 14:24:24         5007       1,214,146 KB 2014/01/08 14:24:24         5007       1,214,146 KB 2013/01/08 0:38:40         5006       4 KB 2013/01/08 0:38:40         5005       14 KB 2013/01/08 0:38:40         5005       14 KB 2013/01/08 0:38:40         5005       14 KB 2013/01/08 0:38:40         5005       15 KB 2013/01/08 0:38:40         5005       15 KB 2013/01/08 0:34:40         5005       165 KB 2013/01/08 0:34:40         5005       165 KB 2013/01/08 0:44:50         5005       12 KB 2013/01/05 0:004:28         5005       238 KB       1/06 H:4:27:42         Imposition       Imposition       Imposition         40,960       138,940 byte       Encel         Imposition       Imposition       Imposition         Imposition       Imposition       Imposition       Imposition         Imposition       Imposition       Imposition       Imposition         Imposition       Imposition       Impositio	
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S0050       4 KB 2013/0/103 8:38:44         S0051       142 KB 2013/0/103 8:39:06         S0053       153 KB 2013/0/103 8:40:16         S0055       155 KB 2013/0/103 8:40:16         S0056       121 KB 2013/0/103 8:40:16         S0057       157 KB 2013/0/103 8:40:10         S0058       121 KB 2013/0/103 8:40:10         S0059       130 KB 2013/0/104 7:81:26         S0059       130 KB 2013/0/105 10:03:48         S0059       130 KB 2013/0/105 10:03:48         S0059       130 KB 2013/0/105 10:04:28         S0059       130 KB 2013/0/105 10:04:28         S0078       288 KB 1/00 H:27:42         INPS002. KEV       Inps:         INPS002. KEV       Inps:         S0059       130 KB 2013/0/105 10:04:28         S0078       142 KB 2013/0/105 H:28:27         S0078       150 KB 2013/0/105 H:28:27         S0078       128 KB 2013/0/105 H:28:27         S0078 <t< th=""><td></td></t<>	
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INFS002.KEV     Information     Informati	
Au seo / 133, 940 byte Cancel Au seo / 133, 940 byte / 134, 9	
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REW Windows for REW315 - [Data management viewer]      File[D revirements] setLing()      Open menu     Detect REW315     Open menu     Open	
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File(D)       Environmental detting(D)         Ust of data in PC         Open menu       Detect RUW315         Satting(Synchronous example)       Envirol (a)         Satting(	
File(D)       Environmental detting(D)         Ust of data in PC         Open menu       Detect RUW315         Satting(Synchronous example)       Envirol (a)         Satting(	
Units       Open menu       Detect EXEWAIS         Ext Ling/Synchronous measurement       Date of data in PC         Detect EXEWAIS       Date OF DATE of Data in PC	
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Analysia of anasourod duta         Monos 107/860/7         00-001         09/461/A         18 01 //10/2014 10:310:12 PW           By sorial no         00-001         09/461/A         19/461/A         19/461/A<	
By serial no         00007         10746407         0.0-011         1794-1         1,24,240         1021/127201         1215/02.044           By ID raaber         00017         10746407         00-011         1794-1         1,24,271         1021/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011         1215/22011	
Bit 1D number         COUPT         1978/807         0.00-001         1978-1         1.122/12/2018         15:11:08         12/2/2018         15:11:08         12/2/2018         15:11:08         12/2/2018         15:11:08         12/2/2018         15:11:08         12/2/2018         15:11:08         12/2/2018         15:11:08         12/2/2018         15:11:08         12/2/2018         15:11:08         12/2/2018         12:11:08         12/2/2018         12:11:08         12/2/2018         12:11:08         12/2/2018         12:11:08         12/2/2018         12:11:08         12/2/2018         12:11:08         12/2/2018         12:11:08         12/2/2018         12:11:08         12/2/2018         12:11:08         12/2/2018         12:11:08         12/2/2018         12:11:08         12/2/2018         12:11:08         12/2/2018         12:11:08         12/2/2018         12:11:08         12:11:08         12/2/2018         12:11:08         12/2/2018         12:11:08         12:11:08         12:11:08         12:11:08         12:11:08         12:11:08         12:11:08         12:11:08         12:11:08         12:11:08         12:11:08         12:11:08         12:11:08         12:11:08         12:11:08         12:11:08         12:11:08         12:11:08         12:11:08         12:11:08         12:11:08         12:11:08	
B0/76         1576497         00-001         1724-1         2.88 K0 12/15/2018 5:15:00 PM           B0/76         15764967         00-001         07441A         5.8 K0 12/15/2018 5:15:00 PM           VBange         : 600/7         00-001         07441A         5.8 K0 12/18/2018 2:15:00 PM           VF Range         : 600/7         D6481A         0.8 K0 12/18/2018 2:15:00 PM           VF Range         : 600/7         D6481A         0.8 K0 12/18/2018 2:15:00 PM           VF Range         : 600/7         D6481A         0.8 K0 12/18/2018 2:15:00 PM           VF Range         : 600/7         D6481A         0.8 K0 12/18/2018 2:15:00 PM           VF Range         : 600/7         D6481A         0.8 K0 12/18/2018 2:15:00 PM           VF Range         : 600/7         D6481A         0.8 K0 12/18/2018 2:15:00 PM           VF Range         : 600/7         D6481A         0.8 K0 12/18/2018 2:15:00 PM           Sensor         : 8 (15/015/0112/10125)         D64804 D0/101 = 1         0.8 K0 12/18/2018 2:15:00 PM           A Parmer         : 5 (0.9 A/550/20, 0.4 (50/20, 0.4 (50/20, 0.4 (50/20, 0.4 (50/20, 0.4 (50/20, 0.4 (50/20, 0.4 (50/20, 0.4 (50/20, 0.4 (50/20, 0.4 (50/20, 0.4 (50/20, 0.4 (50/20, 0.4 (50/20, 0.4 (50/20, 0.4 (50/20, 0.4 (50/20, 0.4 (50/20, 0.4 (50/20, 0.4 (50/20, 0.4 (50/20, 0.4 (50/20, 0.4 (50/20, 0.4 (50/20, 0.4 (50/20, 0.4 (50/20, 0.4 (50/20, 0.4 (50/20, 0.4 (50/20, 0.4 (50/20	
V Range         : 600V         Recording Interval :: 5 sec.           VT ratio         : 1.00         Dewand Sarset :: 100.0kd           Sensor         : 8125/0125/1125/01255         Dewand Cycle :: 30 min.           A Pance :: 500.0kd/500.0kd	
VTratio : 1.00 Dewand Taraet : 100.084 Sensor : 8125/8125/8125/8125/8125/8125 Dewand Cycle : 30 win. A Anner : 500,α/4550,0 A	
Sensor : 8125/8125/8125/8125 Dessand Cycle : 30 min. A Pange : 500_0_A/500_0_A	
INU CAIC. : INU-F	
CT ratio : 1.00/1.00/1.00/1.00 REC Start : 1/12/2013 00:12:21 DC Range : 1.000 V/1.000 V REC End 1/12/2013 00:17:20	
Nominal V : 100 V Information : SELF	
Frequency : 50Hz ID no. : 00-001 Wiring : 3P3W3A INP Data : INPS0002.KEW,'2255	
Transient         :         5         INH Data         :         IM450002.KEW.'10320           Internuetion         :         0         EVT Data         :         EVTS0002.KEW.'105	
Dip : 0 WAY Data : WAYS0002.KEW.'115632	
Swell : 6 VAL.Data : VALS0002.KEN.'2592 Innuch current : 1	
File ID : 6315 Serial No. : 13780507	
Analyze the data downloaded into PC.	
S4as / 80Files	

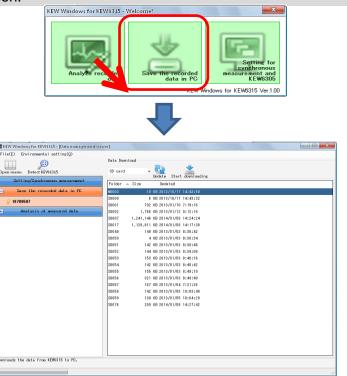
#### Data import from KEW6315 internal memory to PC

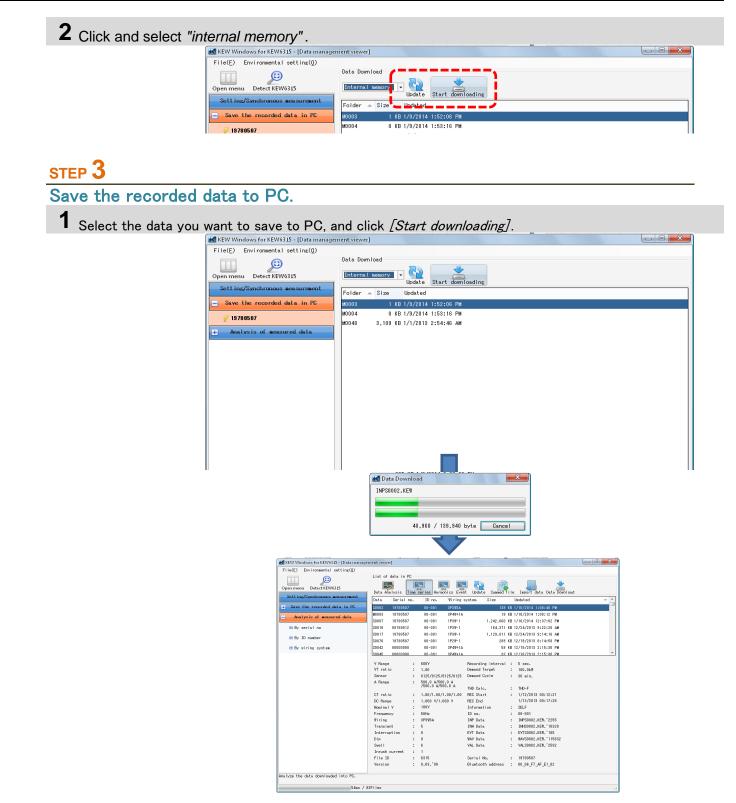


## STEP 2

### Show the list of data stored in the internal memory.

1 Click the [Save the recorded data in PC] icon.



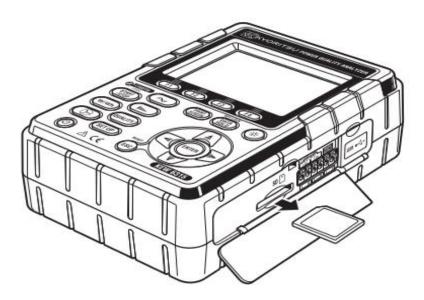


## Data import by using Card reader

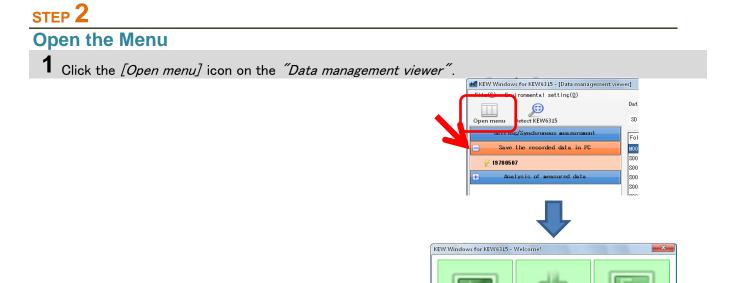
### STEP 1

Extract the SD card from KEW6315.

1 Extract the SD card from KEW6315.



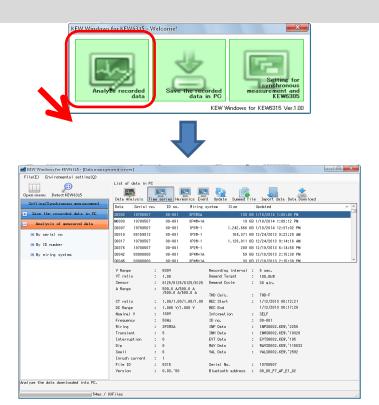
KEW Windows for KEW6315 Ver.1.00



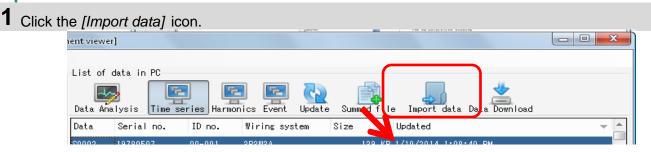
## STEP 3

Show the list of data stored in PC.

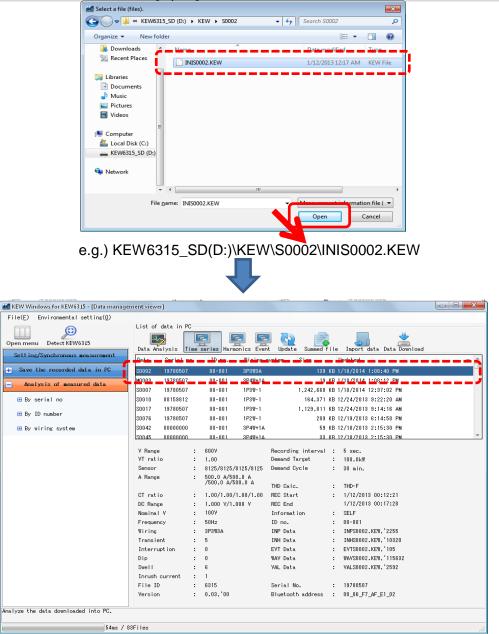
1 Click the [Analyze recorded data] icon.



## **STEP 4** Import the recorded data from the SD card into PC.

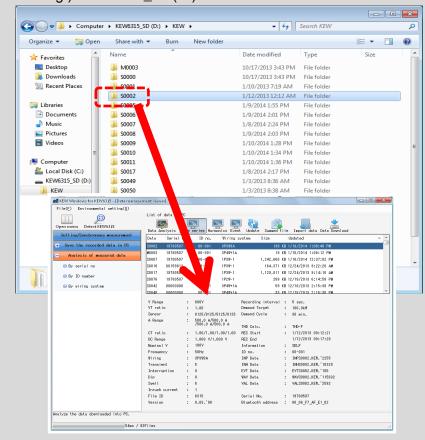


2 Select any Measurement info file, and click [Open].



#### \*Drag & Drop Import

You can use Drag and Drop to easily import the data folders onto PC. To import the folders onto PC, drag a folder and drop it into the "Data management viewer".



e.g.) KEW6315\_SD(D:)\KEW\S0002

### Making of KEW6315 Setting data

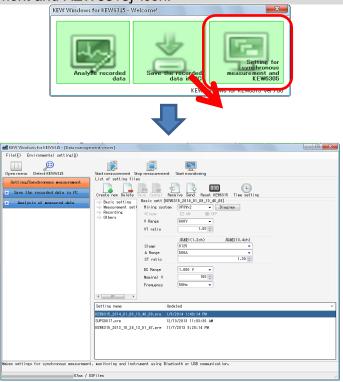
#### STEP 1 Open the Menu

**1** Click the [Open menu] icon on the "Data management viewer".



### STEP 2 Show the KEW6315 settings.

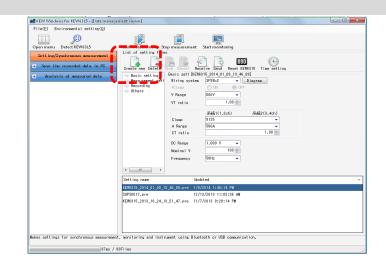
1 Click the [Setting for synchronus measurement and KEW6315] icon.



## STEP 2

## Create a new setting for KEW6315

1 Click the [Create new] icon.



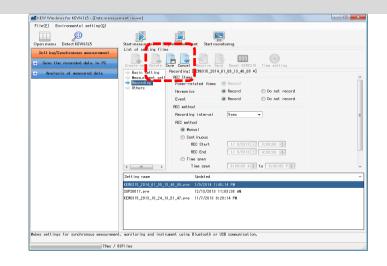
**2** Customize the settings.

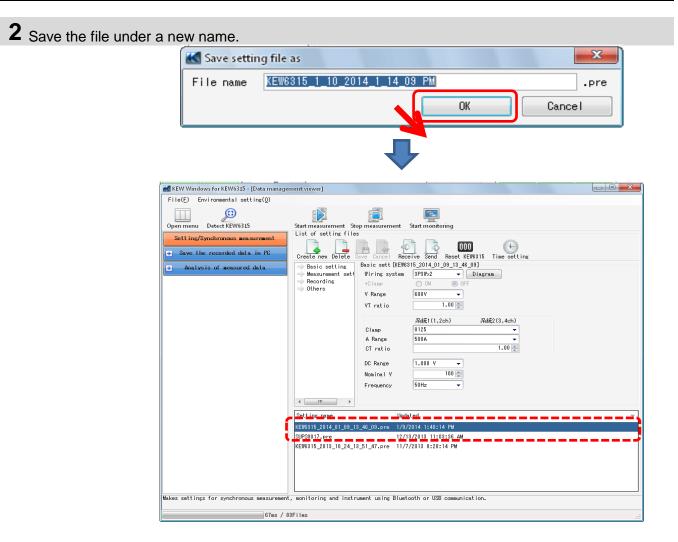
\* As for the details of setting values, refer to the full version of the instruction manual for KEW6315.

## STEP 3

## Save the edited setting.

1 Click the [Save] icon.



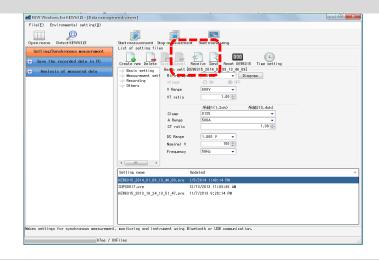


### Setting data readout from KEW6315

### STEP 1

## Readout the Setting data from KEW6315.

1 Click the [Receive] icon.



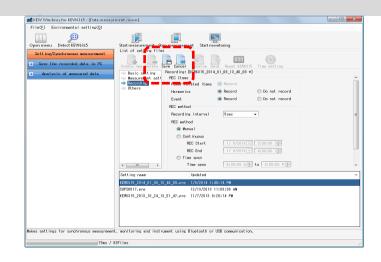
2 Select the serial no. of the connected KEW6315, and click [OK].

Koad setting file	×
Select the serial no.	of the device.
19780507	
ОК	Cancel

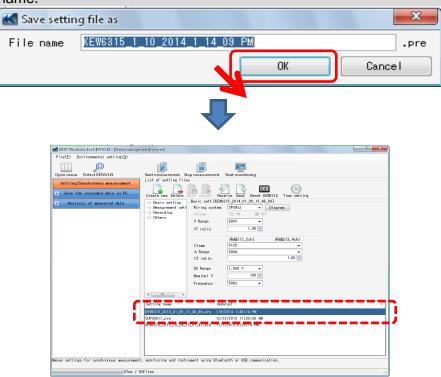
## STEP 3

## Save the received setting to PC.

1 Click the [Save] icon.



2 Save the file under a new name.

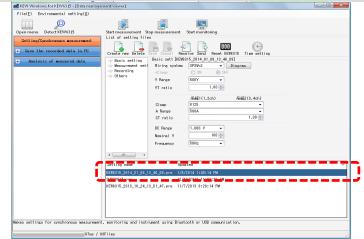


### Reflecting edited setting data on KEW6315

### STEP 1

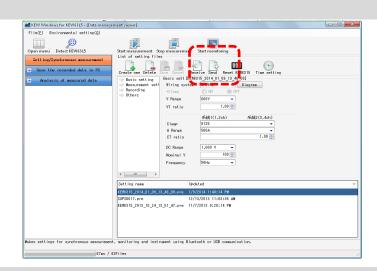
Select a desirable setting data.

1 Select the setting data you want to reflect it on KEW6315.



## **STEP 2** Reflect the selected setting data to KEW6315.

1 Click the [Send] icon.



**2** Select the serial no. of the connected KEW6315, and click [OK].

	•			
🛃 W	riting of se	etting fil	e	×
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	011			
	OK		Lar	ncel

#### Starting synchronous measurement

Note) Graph and list data might not be updated and displayed properly depending on the spec and performance of the PC connected. For details, please refer to "Trouble-shooting" on page 79.

#### STEP 1

#### **Open the Menu**

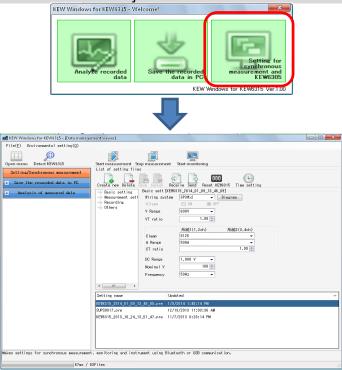
1 Click the [Open menu] icon on the "Data management viewer".



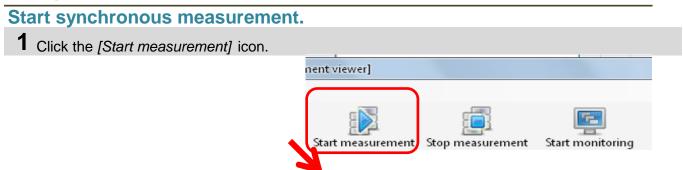
### **STEP 2** Show the synchronous measurement control screen.

A synchronous measurement control screen.

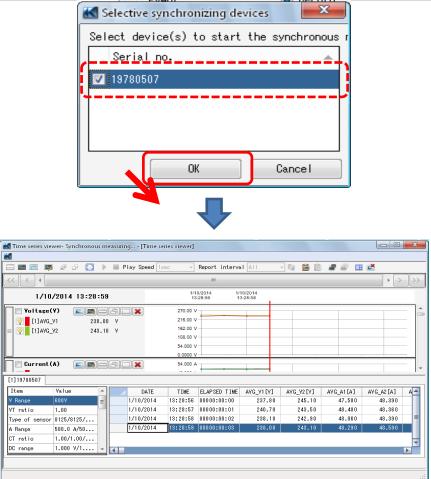
1 Click the [Setting for synchronus measurement and KEW6315] icon.



## STEP 3



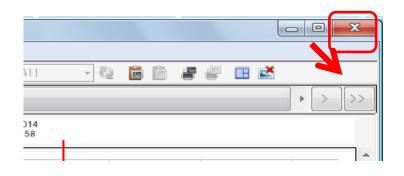
**2** Check the box for the serial no. of KEW6315 that performs synchronous measurement, and click *[OK]*.



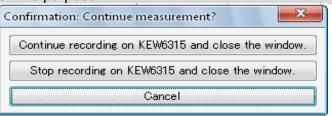
## STEP 4

Close window.

1 Click [x] on the window.



**2** Select any of the following three depending on the purpose.



### "Continue recording on KEW6315 and close the window."

KEW6315 continues recording even after the window is closed. You can access to KEW6315 again and monitor the recording status. [Monitoring =>???]

#### "Stop recording on KEW6315 and close the window."

Recording will be stopped.

### "Cancel"

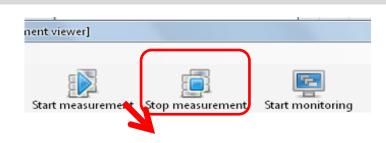
You can back to the Real-time measurement screen.

#### **Terminating synchronous measurement**

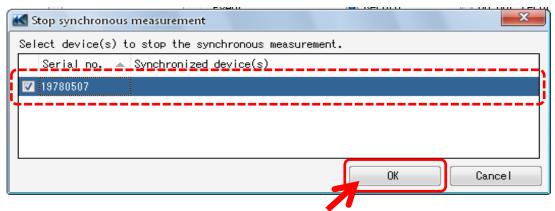
### STEP 1

## Stop synchronous measurement.

1 Click the [Stop measurement] icon.



**2** Uncheck the box for the serial no. of KEW6315 to stop it, and click [OK].



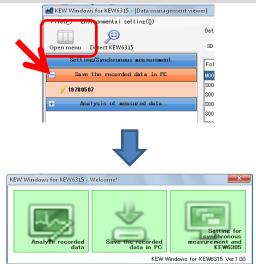
#### Synchronous measurement with 2-unit of KEW6315

Note) Graph and list data might not be updated and displayed properly depending on the spec and performance of the PC connected. For details, please refer to "Trouble-shooting" on page 79.

#### STEP 1

#### **Open the Menu**

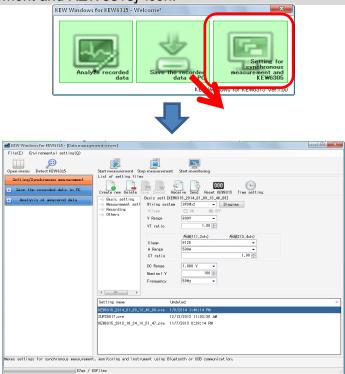
1 Click the [Open menu] icon on the "Data management viewer".



# STEP 2

### Show the synchronous measurement control screen.

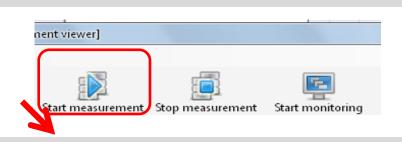
## 1 Click the [Setting for synchronus measurement and KEW6315] icon.



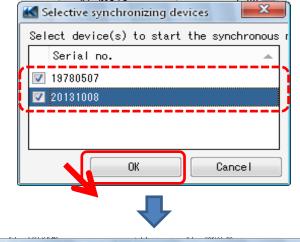
## STEP 3

### Start synchronous measurement.

1 Click the [Start measurement] icon.



**2** Check the box for the serial no. of KEW6315 that performs synchronous measurement, and click *[OK]*.



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Voltage	(Y)	-61		272.00 V						-
[1] AVG	V1 288.	10 V		218.00 V	-					
📖 🛜 🗧 [1] AVG_	V2 245.	10 V		163.00 V			-			
💡 🛛 [2] AVG	V1 0.00	10 Y 01		109.00 V						
2] AVG		in v		54.000 V			_			
				0.0000 V	· · · · ·	· · ·				-
Current C	(A) 🗾 🐻 🗆	181		54.000 A		+	_			
[1]19780507 [;	2]20131008   [1+2]:	:um								
Item	Value 🔺		DATE	TIME	ELAPSED TIME	AVG_V1[V]	AVG_V2[V]	AVG_A1[A]	AVG_A2[A]	A
V Range	600V =		1/10/2014	13:35:00	00000:00:02	239.90	247.30	47.800	48.180	
VT ratio	1.00		1/10/2014	13:35:01	00000:00:03	237.80	244.40	48.170	48.740	
Type of sensor	8125/8125/		1/10/2014	18:35:02	00000:00:04	239.60	243.80	47.530	48.370	
A Range	500.0 A/50		1/10/2014	18:35:03	00000:00:05	237.80	246.30	48.250	48.380	
CT ratio	1.00/1.00/		1/10/2014	13:35:04	00000:00:06	238.50	245.30	48.160	48.040	
	1.000 V/1			_						•

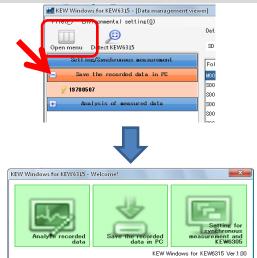
#### Monitoring

Note) Graph and list data might not be updated and displayed properly depending on the spec and performance of the PC connected. For details, please refer to "Trouble-shooting" on page 79.

#### STEP 1

## **Open the Menu**

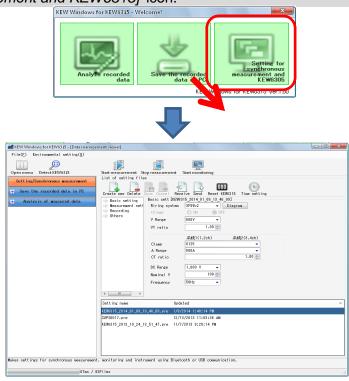
1 Click the [Open menu] icon on the "Data management viewer".



## STEP 2

Show the synchronous measurement control screen.

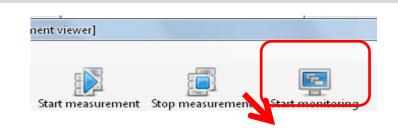
1 Click the [Setting for synchronus measurement and KEW6315] icon.



## STEP 3



1 Click the [Start monitoring] icon.



2 Check the box for the serial no. of KEW6315 to be displayed on the PC screen, and click [OK].

🔣 Dev	ice(s) to be	monito	red			1 1111 -			×
Selec	t device(s	) to be	monitored.	(Status of	the	synchronized	devices	will	also be disp
Seria	l no. 🔺	Synchro	nized devic	æ(s)					
19780	507								ł
<b>&gt;</b>									/
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Item	Value 4		DATE	TIME	ELAPSED TIME	AVG_V1[V]	AVG_V2[V]	AVG_A1[A]	AVG_A2 [A]	A
V Range	600V		1/10/2014	13:36:56	00000:00:20	240.20	246.60	47.790	48.380	- 11
∀T ratio	1.00		1/10/2014	13:36:57	00000:00:21	238.80	244.10	47.960	48.170	_
Type of sensor	8125/8125/		1/10/2014	13:36:58	00000:00:22	239.50	246.30	48.100	48.760	=
A Range	500.0 A/50		1/10/2014	13:36:59	00000:00:23	241.80	244.40	48.360	48.810	
CT ratio	1.00/1.00/									
DC range	1.000 V/1									•

### Summing the Power data stored in the separate units

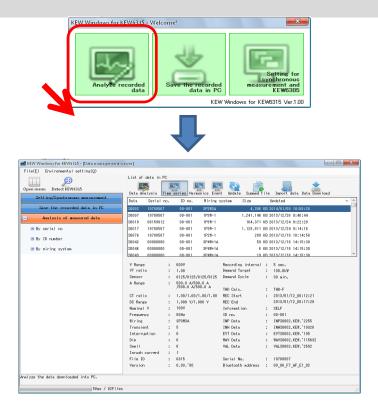
#### STEP 1 **Open the Menu** 1 Click the [Open menu] icon on the "Data management viewer". KEW Windows for KEW6315 - [Data management viewer] ental setting(<u>0</u>) ile(E) Dat SD ct KEW6315 Open me Sett i Fol M00 S00 Save the recorded data in PC 19780507 S00 Analysis of m S00 S00



## STEP 2

### Show the list of data stored in PC

1 Click the [Analyze recorded data] icon.



тер 3						
um two record	led data.					_
Click the [Summ	ed file] icon.					
nent viewer]						
List of data i Data Analysis Data	n PC Time series Ha Serial no.	1	Update Summed		rt data Data Download Updated	
Check two boxes	s to be summed	d.				
		S0100 S0110 S0110 S0110 S0210	) 19780507 5 19780507	00-001 00-001 00-001 00-001	3P4W+1A 3P4W 1P2W-1+3A	
		1 📝 S0305 2 📝 S0322		00-001 00-001	3P4W+1A 1P3W-2	

50328

19780507 19780507

00-001

3P4w+TA

## 3 Click the [Data Download] icon.

nent viewer]				
	m <u>e series</u> Farmoni Prial no. ID n		 import data Da Updated	ta Download
<b>K</b>	eries viewer - C:\Documents and Setting			
	9/6/2013 13:39:03	9/6/2013 13:39:03	• > >>	
	Itage(Y)         Image(Y)           [1]AVG_V1         79.980 V           [1]AVG_V2         80.010 V           [1]AVG_V3         80.000 V           [1]AVG_V3         80.000 V			
	rrent (A)	470.00 A	[V] AVG V2 [V] M	
V Range VT ratio	S00V         F         3/6           0         1.00         3/6         3/6           sensor 8125/8125/         500.0 A/50         4/50         4/50           0         1.00/1.00/         4/50         4/50         4/50	DATE         TIME         FLAPSED TIME           /2013         13:38:03         00000:00:10           /2018         13:38:13         00000:00:20	[V] AVG_V2[V] M .990 80.010 .980 80.010	

## STEP 4

Save the summed data with file association information.

**1** Save the summbed data with file association information. The confirmation window will appear when closing the viewer. Click [Yes].



## **2** Share the common name.

A common name will be assigned as a prefix for the name of the two files associated with each other, and the copies of each data will be saved.

\* Original two data are left as they are.

🛃 File Name Input	<b>×</b>
Set the string you	want-te-sive the-name-of the-file te ereate
Word strings input	1_10_2014_3_00_32 PM-
Folder Name 1	1_10_2014_3_00_32 PM-S0305
Folder Name 2	1_10_2014_3_00_32 PM-S0322
	OK Cance I

#### \*Open the associated data files.

The two files associated with each other will be summed and can be analyzed just by selecting either of the two data from the next time.

	series Harmonics	Event Update	e Summed file	Import data Data I	<b></b> Download
Data	▲ Serial no.	ID no.	Wiring system	Size Upo	dated
log72	19780507	00-0001	3P4W+1A	£ KB 5/2	8/2013 7-13-51
1_10_2014_1_42_30 PM-	S0305 19780507	00-001	3P4₩+1A	8 KB 1/1	0/2014 1:42:52
1_10_2014_1_42_30 PM-	S0322 19780507	00-001	1P3W-2	8 KB 1/1	0/2014 1:42:52 F
M0003	19780507	00-001	3P4W+1A	19 KB 1/1	0/2014 1:08:12 F
M0016	19780507	00-001	3P3W3A+1A	11 KB 7/1	2/2013 2:56:56 F
	a a 💽 🕨 🔳 Pla;	y Speed 1sec 👻	Report interval All	• 🗞 🖻 🖻 🖉 🗧	
<< < •				<u>. N</u> 6 6 5 5	1 ( )(
<<< < + 9/6/	2013 13:39:03 Y) EB-C-	88.000	III 13:39:03 V-	· ù ն î 22 27	
9/6/ 9/6/ Voltage( 0 [1] AVG_	2013 13:39:03 Y) EBCC V1 79.990 V	88.000 70.000 53.000	III 3/6/2013 3:3:36:03 V - V - V - V -	· & 6 6 # #	$\bullet [>]>>$
9/6/ 9/6/ 9/6/ 9/14vc 9/14vc 9/114vc 9/114vc 9/114vc	2013 13:39:03 Y) V1  79.880 V V2  80.010 V V3  80.000 V	88.000 70.000	III 3539-03 V V V V V	· R () () ()	$\bullet [>]>>$
9/6/           9/6/           9/6/           9/6/           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000           9/1000 <td>2013 13:39:03 V)</td> <td></td> <td>UII J65/2013 J53/903 V V V V V V V V V V V</td> <td>· R () () # #</td> <td></td>	2013 13:39:03 V)		UII J65/2013 J53/903 V V V V V V V V V V V	· R () () # #	
	2013         13:39:03           Y)         Image: Constraint of the second	88.000 70.000 53.000 35.000 18.000	W22013 3339:03 V V V V V V V V V V V V V V V	· & 6 6 # #	
3/6/           9/6/           9           114vc           9           114vc           9           114vc           9           114vc           114vc           1118xc           1118xc           1118xc           1118xc           1118xc           1118xc	2013 13:39:03 Y)  Solution V Y2 80.010 V Y3 80.000 V Y1 73:390 V A Solution V 119720507 [1+2]sum Yalue		III           bic2013           133033           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V           V		/) AVG_V2[V] M
9/6/ 9/6/ 9/6/ 9/114vG 9/114vG 9/114vG 9/114vG 1119780507 [2]	2013 13:39:03 Y) C C C C C C C C C C C C C C C C C C C		III bic/2013 15:39:03 V V V V V V V ELAPSED TIME AVC_YI B (0000:00:10 78)		/] AVG_V2[V] M 30 80.010
Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltace Voltac	2013 13:39:03 V) 73.380 V V2 80.010 V V3 80.000 V V1 73.380 V A 100 S00V 118780507 [1+2]sum Value S00V 1.00 1.00 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7		III bic/2013 15:39:03 V V V V V V V ELAPSED TIME AVC_YI B (0000:00:10 78)	I[V] MAX_VI[V] MIN_VI[V .930 73.580 73.5	/] AVG_V2[V] M 30 80.010
3/6/         Yoltage(         <	2013         13:39:03           Y)         Image: Constraint of the second		III bic/2013 15:39:03 V V V V V V V ELAPSED TIME AVC_YI B (0000:00:10 78)	I[V] MAX_VI[V] MIN_VI[V .930 73.580 73.5	/] AVG_V2[V] M 30 80.010
	2013 13:39:03 Y)  80.010 V V2 80.010 V V3 80.000 V V1 75.990 V A7 5.990 V A7 5.900 V A7 5.9000 V A7 5.900 V A7 5.900 V A7 5.900 V A7 5.900		III bic/2013 15:39:03 V V V V V V V ELAPSED TIME AVC_YI B (0000:00:10 78)	I[V] MAX_VI[V] MIN_VI[V .930 73.580 73.5	/] AVG_V2[V] M 30 80.010

## Printing Electricity usage report

### STEP 1

Show the Report output screen.

1 Click the [Data Analysis] to show the Power data Analysis screen.

📧 Report/ list ou	utput - C:\Documents and Setti	ings\TestUser\My Documents\KE	WVKEW WindowsV2	KEW6315\PcData\dem.
8 C S				
Data save period	i 2014/05/28 18:20:17 to	o 2014/05/24 13:20:17	1day(s)0H	our(s)OMin.OSec.
Print target	2014/05/23 💌 13:20:17 🛬 to	0 2014/05/24 💌 13:20:17 🔝	1day(s)0H	our(s)OMin.OSec.
WEEKEND setting	🛨 💌 to 日 💌	Electric power uk 🛛 💌		
Nighttime settir	ns 18:00 🚓 to 08:00 📚			
	Currency	Unit price	WEEKDAY	WEEKEND
	JPY(Japanese yen) 🛛 💌	Daytime JPY	0.0000 🛬 /kWh	0.0000 会 /kWh
		Nighttime JPY	0.0000 🛬/kWh	0.0000 震 /kWh
Header		テストレポート		2014/0
	l	1		
Footer				
Display item	-Electric energy	<u></u>		
Display Item	▼ Total period ▼ WEEKDAY 4	Avg 🔽 WEEKEND Avg 🔽 Night	ttime% 🔄 Month	Ave 🔄 Day _Night 4
	Crude oil equivalent			
	── ☑ CO2 equivalent			
	*Emission rate for unit	0.000561 🛬 tCO2/kWh		
	Cost			
	🔽 Electric power			
	Observed the second second			
	Channel parameter Voltage	🗸 Active power 🔽 Appal	rent power 🔽 React	ive power 🔽 Power factor

#### STEP 2 **Parameters** Report/ list output - C:\Documents and Settings\TestUser\Wy Documents\KEW\KEW WindowsV2\KEW6315\PcData\dem... 🗙 ta save period 1day(s)0Hour(s)0Min.0S 1 to int target 2014/05/23 💽 13:20:17 🚓 to 2014/05/24 💽 13:20:17 🌫 1day(s)0Hour(s)0Min.( 3 2 shttime setting 18:00 🛬 to 08:00 🛬 Japanese yen) ~ Daytime JPY 0.0000 📚 /kWh 0.0000 🛬 / 4 0.0000 🛬 /kWh 0.0000 📚 Nighttime JPY ′kWh \_\_\_\_\_ テストレポート 2014/06/17 Header 5 1/1 Footer Display\_iter 🔽 Total period 🔍 WEEKDAY Avg 🔍 WEEKEND Avg 🔍 Nighttime% 🗌 Month Avg 🗌 Day \_Night Avg Crude oil equivalent 6 ✓ C02 equivalent \*Emission rate for unit 0.000561 tC02/kWh 🔽 Cost 🛃 Electric power parameter 🗸 Voltage 🔽 Current 🔽 Active power 🔽 Apparent power 🔽 Reactive power 🔽 Power factor Print report Print list CSV output

## 1 Specify the time period to print.

Data save period	2014/05/23 13:20:17	to	2014/05/24 13:20:17	1day(s)OHour(s)OMin.OSec.
Print target	2014/05/23 💌 13:20:17 😪	to	2014/05/24 💌 13:20:17 🛬	1day(s)0Hour(s)0Min.0Sec.

### 2 Select and set weekend days and nighttime period.

WEEKEND setting	±	💌 to	Β	~
Nighttime setting	18:00	🛬 to	08:00	-

### **3** Select the unit for power.

Electric power uk 🛛 💌

### 4 Select the currency and unit.

Currency	Unit price	WEEKDAY	WEEKEND	
JPY(Japanese yen) 🛛	Daytime JPY	0.0000 📚 /kWh	0.0000 📚 /kWh	
	Nighttime JPY	0.0000 会 /kWh	0.0000 会 /kWh	
		•	1	

## 5 Enter words for Header/ Footer for report.

Header	テストレポート	2014/06/17
Footer		1/1

6 Select the items to be displayed on a report. Display item Electric energy Total period VEEKDAY Avg WEEKEND Avg 🗹 Nighttime% Month Avg 📃 Day \_Night Avg 🔽 Crude oil equivalent 🔽 CO2 equivalent \*Emission rate for unit 0.000561 会 tCO2/kWh 🔽 Cost Electric power Channel parameter



2 Print. ● ジンレビュー
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プリンタの検索(D)...

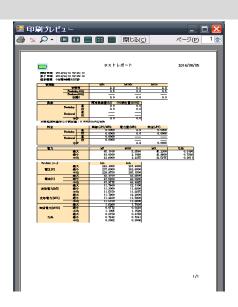
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## **Other Functions**

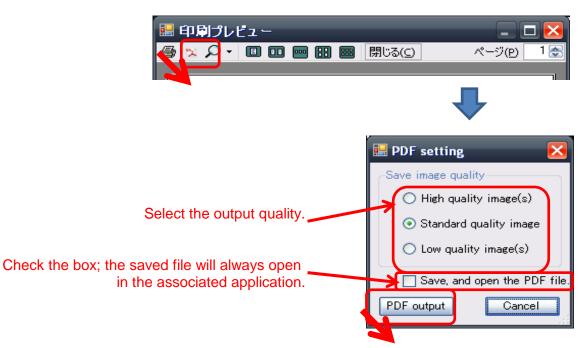
## STEP 1

## **Opening PDF Output Window**

**1** Open the PrintPreview window.



2 Click the PDF Output Button.



### Changing the Operation setting for KEW Windows for KEW6315

## **STEP 1** Show the Environmental setting change screen.

1 Click [Environmental Setting] on the Menu bar.



	🛃 Environn	nental setting							×
	Save to:	Time series	-parameter	Time seri	es -graph name	Harmonics -para	meter	Harmonics -	graph (
	Instrumer	nt setting:	C:¥Documents	and Sett	ings¥TestUser¥	dy Documents¥KEW¥	(EW Wir	nd( Browse	Open
	Downloade	ed data:	C:¥Documents	and Sett	ings¥TestUser¥	dy Documents¥KEW¥	(EW Wir	nd( Browse	Open
	·								
	Import	Ex	port	nitialize	•		OK		Cancel
┝									:

#### STEP 2 Change the Environmental settings. 1 Change the destination to save each data. Click on [Save to:] tab. Save to: Time series -parameter | Time series -graph name | Harmonics -parameter | Harmonics -graph া 🏴 Instrument setting: C:¥Documents and Settings¥TestUser¥My Documents¥KEW¥KEW Winde Browse Open C:¥Documents and Settings¥TestUser¥My Documents¥KEW¥KEW Windo Browse Downloaded data: Open Instrument setting: ... Destination pre-set in KEW6315 settings. Downloaded data: ...Destination to save the data downloaded from KEW6315 to PC Specify the folder to save the data. Open explorer and go to the folder to save the data.

**2** Change the displayed items on graphs shown on Time Series viewer. Click on [*Time series -parameter*] tab.

Save to: Time series -parameter	e series -gra [	ph name   Harmonics -para	ameter   H Graph	armonics Graph	-graph (
🖌 🔿 Instantaneous value	Parameter	Title	color	color (2)	Sum 📼
→→ RMS voltage(V[V]) → RMS current(A[A])	AVG_V1[V]	AVG_V1[V]		(2)	$\sim$
Active power(P[W])	AVG_V2 [V]	AVG_V2 [V]			$\leq$
Apparent power(Q[var	AVG_V3 [V]	AVG_V3 [V]			$\geq \leq$
	MAX_V1[V]	MAX_V1[V]			$\geq \leq$
⇒ Frequency(f[Hz]) ⇒ Line voltage(VL[V])	MAX_V2[V]	MAX_V2[V]	_		$\geq$
Neutral current(An[A	MAX_V3[V]	MAX_V3 [V]			$\geq$
	MIN_V1[V]	MIN_V1[V]			$\geq$
<ul> <li>↓</li> </ul>	MIN_V2[V]	MIN_V2[V]			<u> </u>
			人 1		

#### Edit the item names displayed on graph.

Select any colors for each item displayed on graph.

\*To reflect these settings on the Time Series viewer under analysis, close the viewer on then open it again.

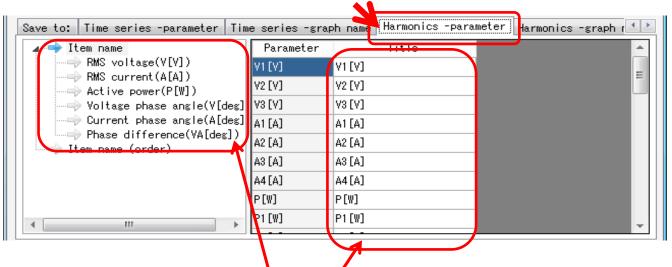
**3** Change the graph name displayed on Time Series viewer. Click on *[Time series -graph name]* tab.

Save to: Time series -parameter Tim	e series -graph name Harmonics -parameter Harmonics -graph (
Graph	Graph name
RMS voltage(V[V])	Voltage(V)
RMS current(A[A])	Current(A)
Active power(P[W])	Act.Pwr(P)
Reactive power(Q[var])	React.Pwr(Q)
Apparent power(S[VA])	Appa.Pwr(S)
Power factor(PF)	Pwr Fact(PF)
Frequency(f)[Hz]	Frequency(f)
Line voltage(VL[V])	Line V(VL)
Neutral current(An[A])	Neutral A(An)

#### Edit graph title.

\*To reflect these settings to the Time Series viewer under analysis, close the viewer once and then open it again.

**4** Change the displayed items on graphs shown on Harmonics viewer. Click on *[Harmonics -parameter]* tab.



Select an item name displayed on graph. Edit the item names displayed on graph.

Time series -parameter Time series -	graph name	Harmonics -parameter	Harmonics -gr	aph name	Auto 💶 🕨		
	Parameter	Title	Braph c	olor	<b>^</b>		
RMS voltage(V[V])	AVG[01]_	AVG[01]_					
→ RMS current(A[A]) → Active power(P[W])	AVG[02]_	AVG[02]_					
Voltage phase angle(V[deg]	AVG[03]_	AVG[03]_					
Current phase angle(A[deg]	AVG[04]_	AVG[04]_					
Phase difference(¥4[deg])	AVG[05]_	AVG[05]_					
Vitem name (order)	AVG[06]_	AVG[06]_					
	AVG[07]_	AVG[07]_					
	AVG[08]_	AVG[08]_					
▲	AVG[09]_	AVG[09]_			-		
Select [Item name (order)]. Edit the order name displayed on graph. Select any colors for each item displayed on graph. *The name to be displayed will be "Item name" + "Item name(oder)". (e.g. "V1[V]" + "AVG_01""V1[V]AVG_01")							

\*To reflect these settings to the Time Series viewer under analysis, close the viewer once and then open it again.

**5** Change graph names shown on Harmonics viewer. Click on *[Harmonics -graph name]* tab.

Time series -parameter Time series -graph nam	e Harmonics -parameter Harmonics -graph name Auto
Graph	Greph name
RMS voltage(V[V])	Voltage(V)
RMS current(A[A])	Current(A)
Active power(P[W])	Act.Pwr(P)
Voltage phase angle(V[deg])	PA(V)
Current phase angle(A[deg])	PA(A)
Phase difference(VA[deg])	PA.Diff(VA)

#### Edit the graph name.

\*To reflect these settings to the Time Series viewer under analysis, close the viewer once and then open it again.

6 Change Auto-play settings. Click on [Auto play] tab.

ime series	-graph na	me Harmor	nics -para	meter Harm	onics -graph		o play	Real-time	measurer 💶 🕨
Specify the	e cursor s	top point	for auto p	play.					
	1	1			1		1		
						/			

Move the cursor to the desirable start point.

**7** Change real-time measurement settings. Click on [Real-time measurement] tab.

Harmonics -parameter H	larmonics -graph na	me Auto pl	ay Real-time	measurement	Others	4
Setting for synchronou	is measurement/ mon	itoring				
Refresh rate	1sec	-				
Max number	10data	-				
		R				
Change the refre	sh rate for graph.					

Change the number of data displayed on one screen.

8 Register the ID No. Click on *[ID No]* Tab.

Harmonics -parameter	Harmonics -graph name Auto play	Real-time measurement	ID no. Logo Oth
00 001		1	Add
00 002	2 XXXX Building 2F		Edit
			Delete

Add/ edit/ delete ID numbers.	
E Location info editing	
00 - 001 XXX Building 1F OK Cancel	

-

Measured data can be organized by test site and environment after registering ID No..

Setting/Synchronous measurement	no. Data
Save the recorded data in PC 00-0	01 S0020
00-0	01 \$0030
C Hinarysis of acastree data 00-0	01 S0007
🖽 By serial no 00-0	01 S0037
00-0	01 S2083
By ID number 00-0	01 S0018
■00-001 :( XXXX Building 1F ) 00-0	01 S0017_J
<u></u>	01
III 12-345	ange
	ratio
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A R	anee

**9** Add logos to be displayed. Click on [Logo] tab. Harmonics -parameter Harmonics -graph name Auto play Real-time measurement ID n Logo Ot 4 ο. Select the logo to be printed on List/ Report. Header KYORITSU Footer Add logos to be displayed and printed with a list or report. Select an area (for Header or Footer) and add logo data (image file). Click the added logo to delete it. Print image 2014/07/30 Test report KYORITSU EN50160 Report -Fail-2014/07/30 16:12:52 Create Measuring instrument KEW6315 Ver 9 99 Serial No demodemo 10 Other setting items Click on [Others] tab. Harmonics -parameter Harmonics -graph name Auto play Real-time measurer Others 4 Display Control Item Number Of Digits Real number \* List Number Format 5-digit ÷ waveform drawing bw quality high quality light load heavy load Change the numerical display form. If you prefer Real number display, specify the number of digits. Adjust the fineness of waveforms for Event data.

ice and

## **Trouble-shooting**

# \* KEW6315 is not displayed on the list although it has been connected with PC by using USB cable.

Disconnect and reconnect the USB cable. Then click "Redetect".

If KEW6315 were not displayed after trying above procedure, USB driver may not be recognized properly. Follow the procedure below and reinstall the driver.

Insert the supplied CD into PC and right click on the CD drive. Then click "Open" on the displayed list. Then you can see "DRIVER" folder. Start "kewusb\*\*\*\_setup.exe" to start installation.

Please refer to the Installation manual for further details.

# <sup>\*</sup> Communication between KEW Windows for KEW6315 and KEW6315 unit fails while using USB communication.

If communication processes such as synchronous measurement, data download or instrument setup cannot be done while using USB communication, click "Detect KEW6315". Then disconnect and reconnect the USB, and click "Detect KEW6315". Check that the serial no. of the connected KEW6315 is displayed under "Data download".

#### \* Downloading time

Downloading time will be longer when file size becomes bigger. It is recommended to use SD card to copy big data to PC. USB transfer rate : approx. 27sec. for transferring internal data of 3MB Bluetooth transfer rate : approx. 10.5min. for transferring internal data of 3MB

#### \* Delayed update of graph and list at synchronized and monitoring measurement

Display update may not be properly done at the interval set via Environment setting depending on PCs. When "----" (bars) is displayed at List display, lag of update is suspected. Please follow the steps below and extend the update interval.

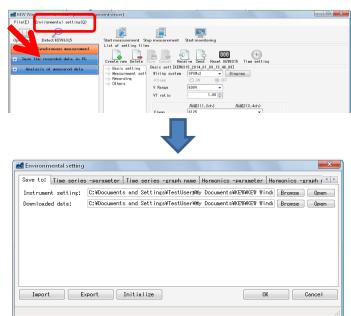
## Click on the "x" in the upper right corner of the window.

The viewer is closed, but the recording continues.

Time series viewer- Synchronous measuring [Time series	viewer]						
🔣 🖃 📾 🥔 🖓 🕞 💽 🕨 🔳 Play Speed Isec	- Report interval All	- Q 🖻 🖻 🖉 🖽 🛃					
	m		>>				
1/10/2014 13:28:59	1/10/2014 1/10/2014 13:28:56 13:28:58						
Yoltase(Y)       Image: Constraint of the second sec	270.00 V 216.00 V 108.00 V 54.000 V 0.0000 V		* 				
Confirmation: Continu	ue measurement?	x					
Continue recording	on KEW6315 and c	lose the window.					
Stop recording on KEW6315 and close the window.							
	Cancel						

# **Trouble-shooting**

**2** Click on the "Environment Setting" tab in menu bar. The environment setting window will open.



3 Adjust the settings of real-time measurement. Click on the "Real-time measurement" tab and adjust "Refresh rate" to change display update interval.

Harmonics -parameter H	armonics -graph nam	ne Auto play	Real-time	measurement	Others		4
Setting for synchronous measurement/ monitoring							
Refresh rate	1sec	•					
Max number	10data	•					