Quick Manual



DIGITAL POWER METER

KEW 6305



Preface

This Quick manual is a simplified version of the full instruction manual which can be found in the supplied CD-ROM. This manual is intended only as a handy reference guide and should only be used after having read the full instruction manual which contains full details on each function of this instrument and the items contained in the package.

Precautions

The instruction manual (full manual) contains warnings and safety procedures which have to be observed to ensure safe operation of the instrument and maintain it in a safe condition. Thus, these operating instructions have to be read prior to using the instrument.

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The latest software can be downloaded from our web site. http://www.kew-ltd.co.jp

1. Instrument Overview

Features

This is a digital Power meter that can be used for various wiring systems and can measure up to 3 systems on single-phase 2-wire circuit. That is, this instrument does the jobs of three just by one. It can be used for measurements of instantaneous, integration and also demand values.

Measured data can be saved in SD card or the internal memory, and the data can be transmitted to PC via USB. Measured data can be checked on android devices in real-time by using Bluetooth function.

Safety construction

Designed to meet the international safety standard IEC 61010-1 CAT.III 600V

Wiring configration

KEW6305 supports: Single-phase 2-wire, Single-phase 3-wire, Three-phase 3-wire and Three-phase 4-wire

Measurement and calculation

KEW6305 measures voltage (RMS), current (RMS), active power, frequency and calculates reactive/ apparent power, power factor, neutral current (Three-phase 4-wire only) and active/ reactive/ apparent energy.

Demand measurement

Electricity consumption can be easily monitored so as not to exceed the target maximum demand values.

Saving data

Instantaneous values can be saved every time pressing the $(\underline{)_{SWE}}$ Key. Integration and demand values can be saved for various periods from 1 second up to 1 hour. The maximum, minimum and average values of instantaneous values during each cycle can also be saved.

Dual power supply system

KEW6305 operates either with an AC power supply or with batteries. In the event of interruption, while operating with an AC power supply, power to the instrument is automatically restored by the batteries in the instrument.

Large display

Up to 3 measured items can be displayed on the large screen simultaneously. (e.g. voltage, current and active power)

Backlight

Backlight to facilitate working in dimly illuminated areas

Light & compact design

Clamp sensor type, compact and light weight design

Application

Data in the internal memory and in SD card can be transferred to PC using USB connection or SD slot. The supplied PC software application enables easy settings of the instrument and analysis of the saved data from PC, moreover, can synchronize recording intervals and internal clocks of two KEW6305 to perform synchronous measurement. Measured data can be checked on android devices in real-time via Bluetooth communication.

Functional Overview



2. Instrument Layout Front view



Connector



Side face



Symbols displayed on the LCD < All symbols >



< Symbols appear to show the state of the instrument or measurement >

Symbol	Description				
Оп	Keys are being locked.				
Vol	Preset voltage value is exceeded.				
AOL	Preset current value is exceeded.				
-G-	Operating with AC power supply.				
•••••	Operating with batteries.				
H	Data hold function is active.				
SET	SET UP Range is selected.				
WIRING CHECK	WIRING CHECK Range is selected.				
W	Blinks while instantaneous value is being displayed on the LCD.				
Wh	Blinks while integration value is being displayed on the LCD.				
DEMAND	Blinks while demand value is being displayed on the LCD.				
FULL	FULL Capacity of SD card or internal memory is full.				
RECALL	DATA CHECK Range is selected.				
SD	Data can be saved in the SD card. * Blinks while saving data.				
€~ *	USB cord is connected to the terminal. * Blinks during data communication.				
8	Using Bluetooth communication.				
	Data can be saved in the internal memory. * Blinks while accessing to the memory.				
VT	VT ratio is set to other than "1".				
СТ	CT ratio is set to other than "1".				

3. Preparations

Battery

KEW6305 operates either an AC power supply or batteries. Capable of performing measurements in an event of AC power interruption, power to the instrument is automatically restored by the batteries installed in the instrument. Size AA alkaline dry-cell batteries (LR6) can be used.

If an AC power supply is interrupted and batteries have not been installed, the instrument will be powered off and the measuring data may be lost.

Indication on screen

Symbol of power supply displayed on each measurement screen changes as follows.



Battery condition

Battery symbol changes as follows depending on battery condition.

	Battery operating time
	For approx. 15 hours, with new alkaline batteries. * It is reference time and will be shortened if using the backlight or Bluetooth function.
C	Batteries are exhausted. (Accuracy of readings cannot be guaranteed.) Depending on the states of measurement, instrument operates as follows automatically. * while saving instantaneous value data (Files are opened.) -> Close the open files. (Data will be saved.) * while measuring integration/ demand values -> Force-quit measurements. (Data will be saved.)

How to install batteries



Install batteries in correct polarity as marked inside.

Remove all the batteries if the instrument is to be stored and will not be in use for a long period.

Cord connection



Start-up screen

KEW6305 will be powered on when setting the Function switch to any position other than OFF. All of the LCD segments will be displayed first, and then model name with version information. After that, stand-by screen for the selected range will be displayed.

Upon powering on the instrument, self-check routine initiates automatically. Stop using the instrument if error message appear on the LCD after self-check and refer to (Section 15) Troubleshooting in the full instruction manual.

4. Set-up: SET UP Range

Set the Function switch to **SET UP** Range for making various settings. Settings listed below can be changed. (27 items in total)

List of	setting	items
---------	---------	-------

Setting	Setting no./ item	Symbol	Details
	01 Wiring system	-008	1P2W(1ch)/ 1P2W(2ch)/ 1P2W(3ch)/ 1P3W/ 3P3W/ 3P3W3A/ 3P4W
	02 Voltage range	88Cv	150/ 300/ 600V
	03 Clamp sensor	8	50/100/200/500/1000/3000A type
			03 Sensor Range
Basic			50A 1/5/10/25/50A/AUTO
setting	04.0		100A 2/10/20/50/100A/AUTO
	04 Current range	-	200A 4/20/40/100/200A/AUTO
			500A 10/50/100/250/500A/AUTO
			1000A 20/100/200/500/1000A/AUTO
			3000A 300/1000/3000A
	05 VT ratio	VT	0.01 - 9999.99 (can be set by 0.01)
	06 CT ratio	CT	0.01 - 9999.99 (can be set by 0.01)
Time&	07 Date and time	Ø	Year:Month:Day:Hour:Minute:Second
Buzzer	08 Buzzer	<u>√</u>	ON / OFF
	09 Recording interval	Wh DEMAND + INT	1/ 2/ 5/ 10/ 15/ 20/ 30 sec./ 1/ 2/ 5/ 10/ 15/ 20/ 30 min./ 1 hour
	10 Specific time period rec. or endless rec.		ON: Specifying start/ stop time (repeatedly recorded) OFF : Record the data continuously
	11 ^{'1} Time period setting Time setting	Wh DEMAND + START hh:mm:ss	Start and stop time (Year:Month:Day:Hour:Minute:Second)
	12 ^{°1} Time period setting Date setting	Wh DEMAND + Start YY:MM:DD	Year:Month:Day:Hour:Minute:Second
Measure- ment	13 ⁻² Start of continuous measurement	Wh (DEMAND) + (Start) YY:MM:DD	Year:Month:Day:Hour:Minute:Second
	14 ^{°2} End of continuous measurement	Wh DEMAND + STOP YY:MM:DD	Year:Month:Day:Hour:Minute:Second
	15 Target demand	(DEMAND) + Target	Value : 0.1 - 999.9 Unit: W/kW/MW/GW/VA/kVA/MVA/GVA
	16 Demand measure- ment cycle	(DEMAND) + (INT)	NO/ 10/ 15/ 30 min * Demand measurement will not be performed when "NO" has been selected.
	17 Demand warning cycle	(DEMAND) + 4	1/2/5 min. when measurement cycle is 10or15 min., $1/2/5/10/15$ min. when measurement cycle is 30 min.

 *1 : Setting 11& 12 can be changed only when Setting 10 has been set to "ON". *2 : Setting 13& 14 can be changed only when Setting 10 has been set to "OFF".

Setting	Setting no./ item	Symbol	Details
	18 Available space in SD card	SD	Show the available space in the installed SD card in percentage.
SD card/	19 SD card Format	SD	ON(Format)/ OFF(Not format)
Internal memory	20 Available space in Internal memory		Show the available space in the internal memory in percentage.
	21 Internal memory Format		ON(Format)/ OFF(Not format)
	22 System reset	RESET	ON(Reset)/ OFF(Not reset)
	23 ID number	-	Designate ID no. (00-001 - 99-999)
	24 Setting read	CONF	Save no.: 01 - 20
Others	25 Setting save	CONF	Save no.: 01 - 20
	26 Bluetooth	8	ON/ OFF
	27 V/A Range Auto- switching	AUTO SET	ON/ OFF

4-1. Setting procedure



4-2. Wiring system



5. Measurement Ranges

KEW6305 can perform the following three different measurements.

- (a) Instantaneous value measurement (W Range)
- (b) Integration value measurement (Wh Range)
- (c) Demand measurement (DEMAND Range)

Select a desirable Range according to the steps below.

1. Set the Function Switch to W/Wh/DEMAND Range.



2. Select a Range

Any one of following symbols blinks on the LCD to show which Range has been selected.

W I Wh DEMAND

e.g.: When Wh Range is selected, Wh symbol blinks.

(a) Selecting W Range

(1) Use the \bigcirc (1) Weys and select the "W" symbol on the LCD.

(2) Then use the ${\rm AV}$ Keys to switch screens (1- 3) to be displayed.

Screen 1	W = - "-" symbol blinks on the top
Screen 2	$[\mathbf{W}]_{\Xi^{2}} \leftarrow$ "-" symbol blinks on the middle
Screen 3	w - " symbol blinks on the bottom

(b) Selecting Wh or DEMAND Range

- (1) Use the A V Keys and select the " $W \rightarrow$ " symbol while the Function switch is at the Range position.
- (2) Press the 🔍 🕞 Keys and select the Wh or DEMAND Range.

(Selecting either "Wh" or "DEMAND" Range is impossible unless "→>" symbol is not selected.)
(3) Use the A Keys and switch the displayed contents.

6. Instantaneous value Measurement: W Range 6-1. Steps for measurement



• Parameters for W Range

Parameters to be displayed on the LCD					
Voltage (RMS)					
Current (RMS)	A : average current of each phase Ai : current of each phase	A			
Active power	P : total active power Pi : active power of each phase Polarity :+ (no sign) consumption - (minus) regenerating	W			
Reactive power	Q : total reactive power Qi : reactive power of each phase Polarity :+ (no sign) lagging phase - (minus) leading phase	Var			
Apparent power	S : total apparent power Si: apparent power of each phase	VA			
Power factor	PF : power factor of whole system PFi : power factor of each phase Polarity :+ (no sign) lagging phase - (minus) leading phase	PF			
Frequency	f : frequency of V1	Hz			
Neutral current	In : current on neutral line (3P4W only)	An			

* i = 1, 2, 3

6-2. Selecting/switching display contents

Three parameters (max) can be displayed in one screen. (In the example 1-A below, V, A and P are displayed.) Display screen will be different depending on wiring systems.

• e.g. For Three-phase 4-wire "3P4W" (16 screens):



* Screen 1-A is displayed after powering on the instrument.

- * Use 🖻 or < Key to switch screens listed above in a horizontal direction. (from 1-A to 1-D, 2-A to 2-D and 3-A to 3-G)
- * Use ▲ or ▼ Key to switch screens listed above in a vertical direction. (from 1-A to 3-A only) On any of screens 1-B to 1-D, press ▲ to switch screen to 3-A or ▼ to switch screen to 2-A. On any of screens 2-B to 2-D, press ▲ to switch screen to 1-A or ▼ to switch screen to 3-A. On any of screens 3-B to 3-G, press ▲ to switch screen to 2-A or ▼ to switch screen to 1-A.
- * Phase no. ①, ②, ③ will be displayed on the LCD.
 (e.g.: On screen 1-B, only one Phase no. symbol "①" is displayed and on screen 3-A all Phase no. symbols "①, ②, ③" are displayed. However, none of them is displayed on screen 1-A, 2-A and 3-G.)
 * Screen 2-A shows Dhase uptrage and Cargon 2-11 Line uptrage.
- * Screen 3-A shows Phase voltage and Screen 3-H Line voltage.

• For the other wiring systems: Screens can be switched in the same way as described in the previous page.

		Carean						F	0
WIRING		Screen	A	B	C	D	E	F	G
		Top	V(avg)	V1	V2	V3			
	1	Middle	A(avg)	A1	A2	A3	—	-	-
		Bottom	Р	P1	P2	P3			
		Тор	Р	P1	P2	P3			
3P3W3A	2	Middle	S	S1	S2	S3	—	-	-
		Bottom	PF	PF1	PF2	PF3			
		Тор	V1	A1	P1	PF1	S1	Q1	f
	3	Middle	V2	A2	P2	PF2	S2	Q2	-
		Bottom	V3	A3	P3	PF3	S3	Q3	_
		Тор	V(avg)	V1	V2				
	1	Middle	A(avg)	A1	A2	1 –	_	-	-
		Bottom	P	P1	P2	1			
		Тор	P	P1	P2				
3P3W	2	Middle	S	S1	\$2	_	_	_	_
0.011	12	Bottom	PF	PF1	PF2				
	-	Тор	V1	A1	P1	PF1	S1	Q1	f
	3	Middle	V1 V2		P2	PF2	\$1 \$2		_
	3			A2				Q2	
		Bottom	-	-	-	-	-	_	-
		Тор	V(avg)	V1	V2	-			
	1	Middle	A(avg)	A1	A2	-	—		-
		Bottom	Р	P1	P2				
		Тор	Р	P1	P2				
1P3W	2	Middle	S	S1	S2	-	—	-	-
		Bottom	PF	PF1	PF2				
		Тор	V1	A1	P1	PF1	S1	Q1	f
	3	Middle	V2	A2	P2	PF2	\$2	Q2	_
		Bottom	_	_	-	-	_	_	_
		Тор	V	V	V	V			
	1	Middle	A(avg)	A1	A2	A3		-	_
	-	Bottom	P	P1	P2	P3			
	-	Тор	P	P1	P2	P3			
1P2W (3ch)	2	Middle	S	S1	\$2	S3		_	
11 244 (301)	2	Bottom	PF	PF1	PF2	PF3			
			V1	A1	P1	PF1	S1	Q1	f
	3	Top	-	A1 A2	P2	PF2	\$1 \$2		-
	3	Middle						Q2	
		Bottom		A3	P3	PF3	\$3	Q3	-
	1	Тор	V	V	V				
	1	Middle	A(avg)	A1	A2	-	—	-	-
		Bottom	P	P1	P2				
		Тор	Р	P1	P2				
1P2W (2ch)	2	Middle	S	\$1	S2	-	—	-	—
		Bottom	PF	PF1	PF2				
		Тор	V1	A1	P1	PF1	S1	Q1	f
	3	Middle	_	A2	P2	PF2	S2	Q2	-
		Bottom	-	-	-	-	-	-	-
		Тор	V						
	1	Middle	A	_	-	-	_	-	_
		Bottom	P						
		Тор	P						
1P2W (1ch)	2	Middle	S	_	_	_	_	_	_
11 211 (2011)	2	Bottom	PF						
	-		V V	Δ	P	PF	S	0	f
	2	Top	V	A	P _	PF _	5	Q	T
	3	Middle						_	
		Bottom	-	-	-	-	-	-	-

6-3. Data saving

Instantaneous values (W Range) can be saved by manual operation only.

[Saving procedure]

(1) File no. screen is displayed and data will be saved when pressing the **SAVE** Key during a measurement at **W** Range.



(2) Another press of Key saves another data in the preceding file. (In this case, File no. is not displayed but the buzzer sounds like "pi".)

7. Integration value Measurement: Wh Range 7-1. Steps for measurement



• Parameters for Wh Range

	Parameters to be displayed on the LCD				
Active energy (consumption)	WP WP1/WP2/WP3	: Total active energy : Active energy of each phase	Wh		
Apparent energy (consumption)	WS WS1/WS2/WS3	: Total apparent energy : Apparent energy of each phase	VAh		
Integration elapsed time	TIME	: Hour; Min.; Sec. Hour; Min. Hour	-		

7-2. How to start/ stop measurement



on the screen instead of " 🔊 " symbol.

Integration values remain displayed on the LCD when measurement ends.

Press the "(ESC)" Key at least 2 sec to select "dEL" and clear the display if the displayed values will not be used in further measurements.

7-3. How to switch screens/ save data

Screens and switching method
 < e.g. Three-phase 4-wire "3P4W" >



<For the other wiring systems>

Wiring system ("Setting 01")		Dicplayed at	Parameters to be displayed			
wining system (Setting	Displayed at	Screen 1	Screen 2	Screen 3	Screen 4	
* Single-phase 2-wire (1ch)	1P2W(1ch)	Top Middle Bottom	TIME WP WS	_	_	_
 * Single-phase 2-wire (2ch) * Single-phase 3-wire * Three-phase 3-wire * Three -phase 3-wire 3A 	1P2W(2ch) 1P3W 3P3W 3P3W3A	Top Middle Bottom	TIME WP WS	TIME WP1 WS1	TIME WP2 WS2	_
* Single-phase 2-wire (3ch) * Three -phase 4-wire	1P2W(3ch) 3P4W	Top Middle Bottom	TIME WP WS	TIME WP1 WS1	TIME WP2 WS2	TIME WP3 WS3

• Saving data (Data will be saved automatically.)



8. Demand Measurement : **DEMAND** Range 8-1. Steps for measurement



* Measured demand values will be displayed on the LCD at the start of measurement.

Parameters for **DEMAND** Range

Parameters to be displayed on the LCD	Unit
Target value	W
Predicted value	W
Present value	W
Load factor	%
Demand time	_
Max. demand value	W
When max. demand value measured	-

8-2. How to start/ stop measurement



* When the destination to save data has been set to the internal memory, " () symbol is displayed on the screen instead of " () symbol.

Integration values remain displayed on the LCD when measurement ends.

Press the "(ESC)" Key at least 2 sec to select "dEL" and clear the display if the displayed values will not be used in further measurements.

8-3. Screens/ saving data

Parameters displayed on screens and switching method



Saving data (Data will be saved automatically.)

< Demand measurement with this instrument >



< Max demand value and data saving point >



9. SD card/ Saved data 9-1. SD card compatibility

This instrument supports 1/2Gbyte SD cards.

Max number of saved data

Destination to save data		SD	Internal memory		
Capacity		1GB	2GB	3MB	
Manual saving (W)		approx. 3.3 million results	approx. 6.7 million results	approx. 10,000 results	
Auto-saving	1 sec	approx. 8 days	approx. 17 days	approx. 33 min.	
at preset interval	1 min	approx. 16 months	approx. 33 months	approx. 33 hours	
	30 min	3 years	approx. 42 days		
Max number of file		51	4		

* In case that no file has been contained in SD card.

File name

File name is assigned automatically.



Parameters to be saved

The table below shows the parameters to be saved corresponding to each measurement range. (Parameters to be saved are different depending on wiring systems.)

Manual saving	: parameters in column 1 only
	(except for max/ min/ avg of each parameter)
Auto-saving	: all parameters in column 1 & 2

			Parameters to	be saved				
	Voltage (RMS)	Vi Vi max Vi min Vi avg	: voltage of each phase : max. Vi values : min. Vi values : avg. Vi values					
	Current (RMS)	Ai Ai max Ai min Ai avg	: current of each phase : max. Ai values : min. Ai values : avg. Ai values					
	Active power	P P max P min P avg	: total active power : max. P value : min. P value : active power of each Pi max : max. P values Pi min : max. P values Pi min : max. P values Pi min : min. P values Pi avg : active power of each Pi max : max. P values Pi min : min. P values Pi avg : active power of each Pi max : max. P values : min. P values : active power of each Pi max : max. P values : min. P values : avg. P value					
1	Reactive power	Q Q max Q min Q avg	: total reactive power : max. Q value : min. Q value : avg. Q value	: reactive power of each phase nax : max. Qi values nin : min. Qi values vg : avg. Qi values				
	Apparent power	S S max S min S avg	: total apparent power : max. S value : min. S value : avg. S value	: apparent power of each phase nax : max. Si values nin : min. Si values vg : avg. Si values				
	Power factor	PF PF max PF min PF avg	: power factor of whole sys : max. PF value : min. PF value : avg. PF value	: min. PF value PFi min :				
	Frequency	f f max f min f avg	: frequency of V1 : max. f value : min. f value : avg. f value	Neutral current	In : current on neutral line In max : max. In value In min : min. In value In avg : avg. In value			
	Active energy (consumption) (regenerating) (overall)	+WP +WPi -WP -WPi #WP #WPi	: total active energy (consumption) : active energy (consumption) of each phase : total active energy (regenerating) : active energy (regenerating) of each phase : total active energy (overall) : active energy (overall) of each phase					
2	Apparent energy (consumption) (regenerating) (overall)	+WS +WSi -WS -WSi #WS #WSi	: total apparent energy (consumption) : apparent energy (consumption) of each phase : total apparent energy (regenerating) : apparent energy (regenerating) of each phase : total apparent energy (overall) : apparent energy (overall) of each phase					
	Reactive energy (consumption)	+WQ	: total reactive energy (cons					
	Demand value	#DEM TARGET	: total demand value : target demand value	#DEI	Mi : demand value of each phase			

* i = 1, 2, 3

where, "max." and "avg." mean maximum and average values during an interval.

9-2. Data transfer

1. SD card and USB

Data in SD card or internal memory can be transferred to PC using USB connection or SD card slot/ reader.

	Method o	f transfer
	USB	Card reader
SD card data (file)	△*1	0
Internal memory data (file)	0	

*1 : It is reccomended to transfer the data with big size by use of SD card since trasfer of such data via USB takes time. (transfer time : approx 320MB/ hour)

* As to the manipulation of SD cards, please refer to the instruction manual attached to the card.

* In order to save data without any problem, make sure to delete the files other than the data measured with this instrument from the SD card.



2. Bluetooth

Measuring data can be checked on android devices in real-time via Bluetooth communication. It is neccesary to enable Bluetooth function prior to using Bluetooth communication. (Setting No. 26: Bluetooth)



* Before starting to use this function, download the special application "KEW Smart" from the Internet site.

The application "KEW Smart" is available on download site for free. (An Internet access is required.)

10. Wiring check: WIRING CHECK Range 10-1. Checking procedure

Select the **WIRING CHECK** Range for checking proper connection.

 STEP1
 After connections are complete, set the Function switch to the WIRING CHECK Range.

 Then present voltage, current, power factor and electric power (instantaneous value) are displayed on the LCD as shown in the table below.





Wiring system	Display	Items to be displayed						
(Setting no. 01)		Screen 1	Screen 2	Screen 3	Screen 4	Screen 5	Screen 6	
3P4W 3P3W3A	Top Middle Bottom	f V(avg) A(avg)	V1 V2 V3	A1 A2 A3	P1 P2 P3	PF1 PF2 PF3	DEG(V1) DEG(V2) DEG(V3)	
3P3W 1P3W	Top Middle Bottom	f V(avg) A(avg)	V1 V2 -	A1 A2 -	P1 P2 -	PF1 PF2 -	DEG(V1) DEG(V2) -	
1P2W (3ch)	Top Middle Bottom	f V A(avg)	V 	A1 A2 A3	P1 P2 P3	PF1 PF2 PF3	_	
1P2W (2ch)	Top Middle Bottom	f V A(avg)	V 	A1 A2 -	P1 P2 -	PF1 PF2 -	_	
1P2W (1ch)	Top Middle Bottom	f V A1	V 	A1 	P1 - -	PF1 - -	_	



* Check results may be affected if great power factors (0.5 or less) exist at the measurement sites.

10-2. Criteria of judgment and cause

Check	Criteria of Judgment	Cause		
Frequency	Frequency of V1 is within 45 - 65Hz.	 Voltage clip is firmly connected to the DUT? Measuring too high harmonic components? 		
Voltage input	Voltage input is 10% or more of (Voltage Range x VT).	 Voltage clip is firmly connected to the DUT? Voltage test leads are firmly connected to the Voltage input terminal on the instrument? 		
Voltage balance	Voltage input is within ±20% of reference voltage (V1) * (not checked in single-phase wiring)	 Settings are matched with the wiring system under test? Voltage clip is firmly connected to the DUT? Voltage test leads are firmly connected to the Voltage input terminals on the instrument? 		
Voltage phase	Phase of voltage input is within $\pm 10^{\circ}$ of reference value (proper vector).	 Voltage test leads are properly connected? (Connected to proper channels?) 		
Current input	Current input is 10% or more and 110% or less of (Current Range x CT).	 Clamp sensors are firmly connected to the Power input terminals on the instrument? Setting for Current Range is appropriate for input levels? 		
Current phase	- PFi (absolute value) is 0.5 or more. (3P3W3A : 0≦PFi) - Pi is positive value.	 Arrow mark on the Clamp sensor and the orientation of flowing current coincide with each other? (Power supply to Load) Clamp sensors are connected properly? 		

11. Data check: DATA CHECK Range

Past 10 data (including the latest one) can be recalled and checked on the LCD. Select the **DATA CHECK** Range for checking the data.

Data No.	01	02		09	10	1
Saved data	Latest data	Two before the latest		Nine before the latest	Ten before the latest]
		re complete, se nbol appears an				0
Select ti	ne DATA CHECK	Range.		، المعالم 14:00:0		ta no. is played.
		RECALL s appears.		LCD shows the	saved data.	
STEP2 Use	the 🏔 🐨 Keys	s and select any	Data no			
Scr	eens can be swi	and switch scre tched at DATA s and select any	CHECK R	ange are as follo	DWS.	

Wiring system	Dicplay	Items to be displayed						
(Setting no. 01)	Display position	Screen 1 (Date& time)	Screen 1 (Voltage)	Screen 1 (Current)	Screen 4 (Power)	Screen 5 (Power)	Screen 5 (DEMAND)	
3P4W 3P3W3A	Top Middle Bottom	YY.MM.DD hh:mm:ss 	V1 V2 V3	A1 A2 A3	P1 P2 P3	TIME +WP +WS	Target value Present value	
3P3W 1P3W	Top Middle Bottom	YY.MM.DD hh:mm:ss —	V1 V2 	A1 A2 	P1 P2 	TIME +WP +WS	Target value — Present value	
1P2W (3ch)	Top Middle Bottom	YY.MM.DD hh:mm:ss	V1	A1 A2 A3	P1 P2 P3	TIME +WP +WS	Target value Present value	
1P2W (2ch)	Top Middle Bottom	YY.MM.DD hh:mm:ss —	V1 	A1 A2 	P1 P2 	TIME +WP +WS	Target value — Present value	
1P2W (1ch)	Top Middle Bottom	YY.MM.DD hh:mm:ss —	V 	A 	P 	TIME +WP +WS	Target value — Present value	

MEMO

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