

Handy and Easy to Use - Power Management Support



Reliable measurements start with proper wiring.

The QUICK SET function guides you in making the right connections.

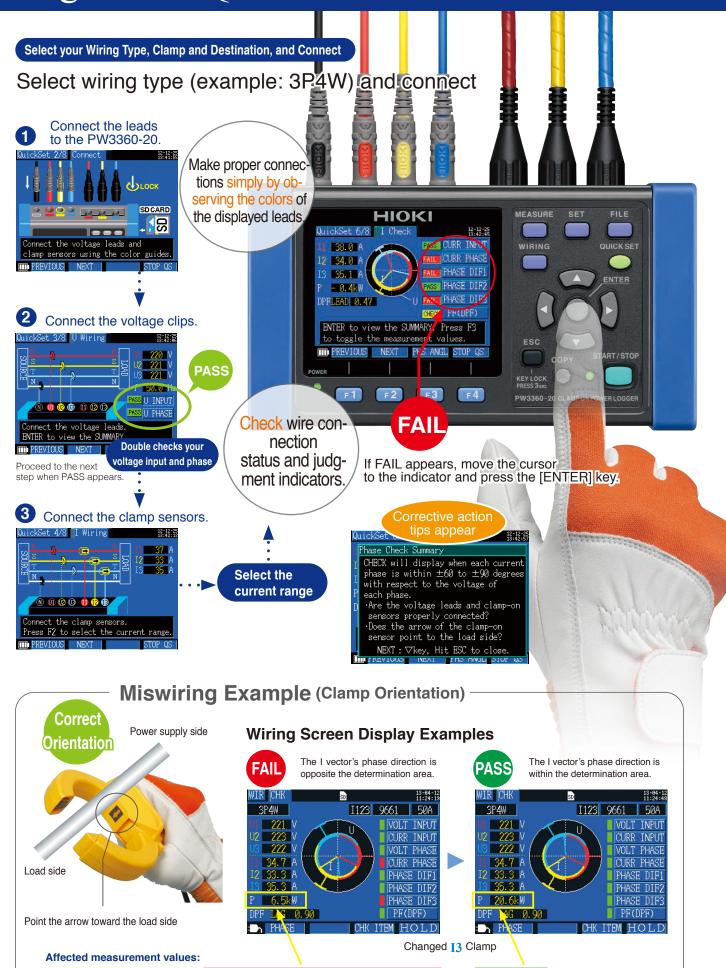


- See demand and trend graphs on site
- Supports single to three-phase, 4-wire circuits
 - Simultaneously measure up to three single-phase, 2-wire circuits (in the same power system).
- Measure up to 780V with a 1000V display range
- Broadly applicable for many jobs, including leakage current measurement
 - An optional clamp-on leakage sensor supports measurements as low as 50 mA.
- Store months of data on SD cards





Begin with QUICK SET Convenience



Examples: P (Power) displayed value is too low P: 6.5kW

P: 20.6kW

Reveal Power Consumption State! Graph Display Functions

■ Demand Graph Display

Shows the demand value transitions useful for managing power consumption. Check maximum demand values and times while recording.

Read values at cursor

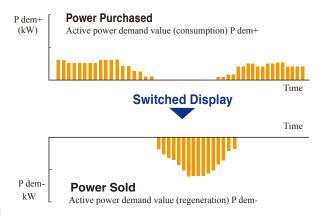


One-day graph showing 48 thirty-minute intervals

Maximum Demand Values

Automatically refreshes with latest values

Evaluate Photovoltaic Generation Capabilities



■ Trend Graph Display

From all measurement items, select one for display. Check states such as power fluctuations of devices in on-site operating conditions.

* Except for demand and harmonics

Capture and record all fluctuations

To conveniently record fluctuations even over long periods, select "All" saving items to record maximum, minimum and average values within each recording interval.

| TREND | 1 YEAR REC | 18:25:18 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:38 | 19:3

Graph showing intervals of up to 200 points

Of the interval time
Maximum Value
Average Value
Minimum Value
Graph Display

Automatically refreshes

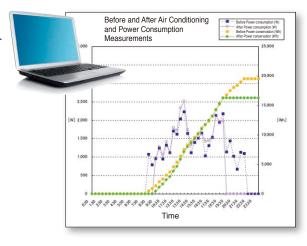
with latest values

Continuous calculation at 200 ms intervals without gaps al time Maximum data Average data Minimum data Minimum data Iy refreshes alues Record 3 data points per interval Record 3 data points per interval

Create a Graph to Clearly Grasp Power Consumption



Use Excel graph processing for before and after comparisons.



* Store up to one year's data acquired at one minute intervals. Performance cannot be guaranteed on storage media other than Hioki-specified SD card options.

Accommodates All Worksites

■ Tight spaces



Where no AC power is available

Battery* power provides about six hours of continuous operation. In addition, a Voltage Line Power Adapter* is available to power the PW3360-20 from the measurement lines.

*Battery Set PW9002 and Voltage Line Power Adapter PW9003 options are sold separately.

*Battery Set PW9002

*Voltage Line

Power Adapter

■ In severe temperature environments

The operating temperature range extends from -10° C (14°F) to 50°C (122°F).

Even under battery operation, measurements can be performed from 0 °C (32°F) to 40°C (104°F) (0°C (32°F) to 50°C (122 °F) when using LAN communication).



Magnetic voltage adapters for hard-to-clip terminals

Obtains power from the measurement lines

Magnetic voltage adapters convertible with the Voltage Cords L9438-53 let you accurately detect voltage when the circuit terminals are too shallow for alligator clips to latch on.

* Magnetic Adapter 9804 option sold separately.

9804-01 Magnetic Adapter (red) usage example

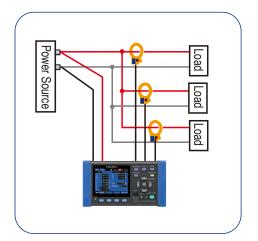


Generally compatible with M6 pan screws

Loaded with More Useful Functions

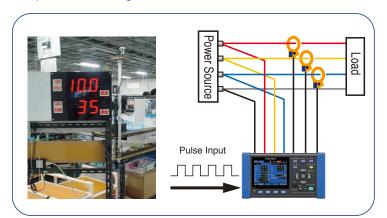
Simultaneous Measurements

Simultaneously measures three single-phase 2-wire circuits in the same system.



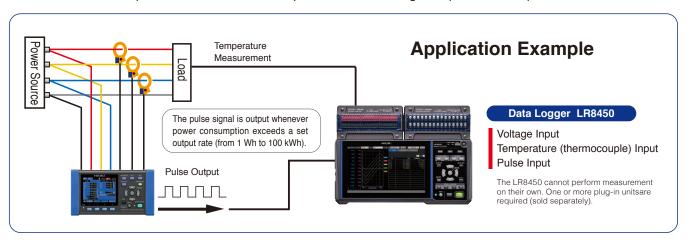
Pulse Input

The pulse input function can be used to record power data and production volume counts simultaneously. The power data and pulse volume (production volume) information are useful for unit cost production management.



Pulse Output

Use the Pulse Output function to acquire temperature and pulse (electrical energy) data simultaneously with a data logger. Evaluate the relationship between air conditioner temperature control settings and power consumption.



Leakage Current Measurement

With the optional leakage current clamp on sensors, turn the instrument into a 3-channel leakage current logger to help identify trouble spots.



Harmonic Measurement Model

PW3360-21



Maximum, average, and minimum values can be saved in binary format to SD card at each interval.

Analyze voltage and current harmonics on a 50/60 Hz power line from the fundamental waveform to the 40th order.

- Displays the RMS value, content, and phase angle (numerical list or graph display) for each harmonic order.
- · Vector display of power phase angle

Harmonic graph screen



(vector display)

Harmonic power phase angle graph screen



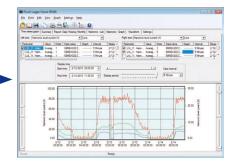
Power Logger Viewer SF1001 is required to display the data on a PC.



SF1001 Display Example

Harmonic Time Series Display

Select and display a time series graph of fundamental, third- and fifth-order current harmonics.





Power Logger Viewer SF1001 (option, sold separately)

Data saved to an SD card or internal memory can be loaded into a PC for expanded display, aggregation and analysis.

Supported models: PW3360, PW3365

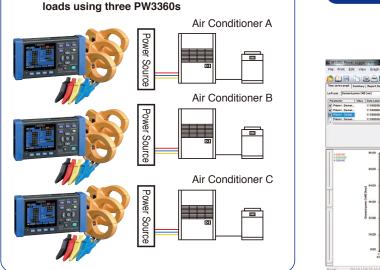
On the same time axis, view measured power consumption and equipment operating status at specific intervals, along with equipment characteristics and management details.

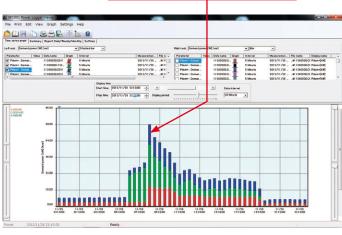
Simultaneously measure and record separate

Trend graph display function
 Summary display function
 Waveform display
 Harmonic display
 Copy function
 Print function
 Report printing

Stacked Graph Display Example

Maximum Demand Values

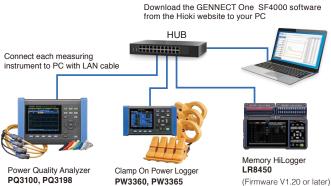




Get results from the job site in real-time

Present data from multiple sources as a graph or list together in real-time



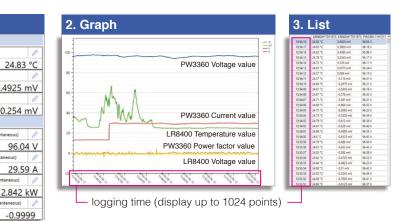


Entire screen 1. Monitor ▼ LR8402#170118751 24.83 °C CH1_2 0.4925 mV 0.254 mV 2 3 96.04 V 29.59 A

- 1. Monitor display (Max 512 items) Display each measured data in real-time
- 2. Graph display (Max 32 items) Display selected data as graphs
- 3. List display (Max 32 items) Display selected data in list

Simultaneously monitor all data in real-time

- Connect measuring instruments to PC with LAN cable Operation guaranteed for up to 30 units. Please contact your nearest Hioki distributor for connections exceeding 30.
- Software automatically recognizes LAN-connected measuring instrument
- Display acquired data as graphs in real-time The measured value (present value) displayed by the measuring instrument is obtained at a certain interval (minimum 1s interval) according to the timer on the PC
- Operate measuring instruments connected via LAN from a PC
- Automatically transfer files saved on a LAN-connected measuring instrument to a PC
- Manage and save results with software
- List MAX, MIN and AVG values (Display time of MAX & MIN data)



LAN remote control function

The application displays a virtual instrument and allows you to control it directly with the mouse. You can also easily change instrument settings and control the instrument, for example to start and stop

measurement.



PF1_I

-0.9999

LAN automatic file download function

This function lets you acquire data in real time on a PC, including data created when the instrument's trigger is activated and measurement files that are automatically generated on a daily basis. Example uses include capturing abnormal phenomena with an instrument installed in the field and automatically acquiring daily power consumption data on a PC.



Downloading GENNECT One SF4000

HIOKI website > Search Model No. (Order code) SF4000 Search

Enter the model number in the search field to download the software to get started!

Compatible instruments	Available iten	ns to monitor and save on PC	Number of items that can be saved	Recording time
POWER QUALITY ANALYZER PQ3100, PQ3198	Voltage Current Power	Instantaneous value of each interval; MAX, MIN, AVG value of each interval		When memory size of acquired data reaches to 64MB, data will be separated automatically [Continuous measurement] When storage capacity falls below 512MB, measurement will stop
CLAMP ON POWER LOGGER PW3360, PW3365			Cave up to E40 Home	
POWER ANALYZER PW3390, PW6001, PW8001		Instantaneous value of each interval	*Maximum 32 items when simultaneously displaying graphs	
MEMORY HiLOGGER LR8450, LR8450-01, LR8101, LR8102	Temperature Analog Input			
MEMORY HICORDER MR6000				

■ PW3360-20, PW3360-21 Specifications

Specifications in orange available in Model PW3360-21 only

Input specificat	ions
Measurement	Single-phase 2-wire, single-phase 3-wire, three-phase 3-wire,
line type	three-phase 4-wire
Measurement line Frequency	50/ 60 Hz
Number of input	Voltage: 3 channels U1 to U3
channels	Current: 3 channels I1 to I3
Voltage range	600 V AC
· · · · · · · · · · · · · · · · · · ·	Total display area: 5V to 1000 V (less than 5 V displays as 0 V) When RMS voltage is zero, zero is displayed for all orders of harmonic voltage.
	Effective measurement range: 90 V to 780 V, peak: ±1400V
	[OVER] indicates over-range warning
Current ranges	Load current
Ourient ranges	CLAMP ON SENSOR 9694 : 500 m/1/5/10/50 A
	CLAMP ON SENSOR 9695-02 : 500 m/1/5/10/50 A
	CLAMP ON SENSOR 9660 : 5/10/50/100 A
	CLAMP ON SENSOR 9695-03 : 5/10/50/100 A
	CLAMP ON SENSOR 9661 : 5/10/50/100/500 A
	CLAMP ON SENSOR 9669 : 100/200/1 k A
	AC FLEXIBLE CURRENT SENSOR CT9667-01 : 50/100 /500/1 k/5 kA
	AC FLEXIBLE CURRENT SENSOR CT9667-02 : 50/100 /500/1 k/5 kA
	AC FLEXIBLE CURRENT SENSOR CT9667-03 : 50/100 /500/1 k/5 kA
	Leakage current
	LEAK CLAMP ON SENSOR 9657-10 : 50 m/100 m/500 m/1/5 A
	LEAK CLAMP ON SENSOR 9675 : 50 m/100 m/500 m/1/5 A
	Total display range: Within 0.4 to 130% of the range (zero is suppressed for less than 0.4%)
	When RMS current is zero, zero is displayed for all orders of
	harmonic current.
	Effective measurement range: Within 5 to 110% of the range peak: ±400% of range, however, maximum range is 200%.
	[OVER] indicates over-range warning
Power ranges	300.00 W to 9.0000 MW
1 Ower ranges	Depends on voltage/current combination and measured line
	type (see Measurement Range Configuration Tables)
	Total display range: Within 0 to 130% of the range
	("0W" display indicates zero rms voltage and/or current)
	When RMS voltage and current are zero, zero is displayed
	for all orders of harmonic active power and harmonic reactive power.
VT ratio settings	Effective measurement area: Within 5 to 110% of the range
VI Tallo Sellings	Any (0.01 to 9999.99) Selections (1/60/100/200/300/600/700/1000/2000/2500/5000)
CT ratio settings	Any (0.01 to 9999.99)
OT fallo settings	Selections (1/40/60/80/120/160/200/240/300/400/600/800/1200)
Input methods	Voltage: Insolated inputs (except between U1, U2, U3 and N)
	Current: Isolated input using a clamp-on sensor
Input resistance	Voltage input part: $3 \text{ M}\Omega \pm 20\% (50/60 \text{ Hz})$
Maximum rated voltage	Voltage input section: 1000 VAC, 1400 Vpeak
between terminals	Current input section: 1.7 VAC, 2.4 Vpeak
Maximum rated	Voltage input section: 600V Measurement Category II
voltage to earth	300V Measurement Category IV
	Current input section: Depends on clamp sensor in use.
Pulse input	
Input specifications	No-voltage contact input (counts when shorted terminals open)
	Voltage input (Hi: 2 V to 45 V, Lo: 0 V to 0.5 V, counts at Lo to Hi)
	Maximum rated input between terminals: 45 V DC
	Maximum rated input to ground: not isolated (GND is equipment com-
	mon)
Measurement range	0 to 9999 (maximum pulse count per save interval)
Filter	Filter On (for mechanical contacts) 25 Hz or less, and at least 20
	ms Hi and Lo pulse width
	Filter Off (for solid-state contacts) 5 kHz or less, and at least 100
	μs Hi and Lo pulse width
Scaling	Displays product of pulse count and scaling factor setting
	Setting ranges: 0.001 to 1.000, and 1.000 to 100.00

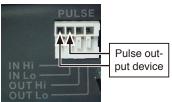
	, , ,
Measuremer	nt items
Voltage	RMS value, fundamental wave value,waveform peak (absolute value), fundamental wave phase angle, frequency (1)
Current	RMS value, fundamental wave value,waveform peak (absolute value), fundamental wave phase angle
Power	Active power, reactive power (with lag/lead display), apparent power, power factor, (with lag/lead display) or displacement power factor (with lag/lead display), active energy (consumption, regeneration, regeneration), reactive energy(lag, lead)
	Energy cost display (per-kWh price × power consumption)
Demand	Active power demand value (consumption, regeneration), reactive power demand value (lag, lead), active power demand quantity *(consumption, regeneration), reactive power demand quantity *(lag, lead), power factor demand value, pulse input
	* Only data output to SD card
Harmonic	Harmonic voltage, current, power level, content, phase angle
	Total harmonic distortion factor (THD-F or THD-R)

Measureme	
List	Voltage RMS value, current RMS value, frequency, total active power
	total reactive power, apparent power, power factor or displacement
	power factor, active energy (consumption), elapsed time
U/I	Voltage RMS value, voltage fundamental wave value, voltage
	waveform peak, voltage fundamental wave phase angle,
	current RMS value, current fundamental wave value, current wave-
	form peak, current fundamental wave phase angle
Power	Per-channel and total active power, apparent power, reactive
	power,power factor or displacement power factor
Integ	Active energy (consumption, regeneration), reactive energy (lag,lead),
	recording start time, recording stop time, elapsed time, energy cost
Demand	Active power demand value (consumption, regeneration), reac-
	tive power demand value (lag, lead),
	power factor demand value, or pulse input
	Displays the maximum active power demand value and the time
	at which it occurred (this information is not saved). (data from up to 48 intervals is internally stored, then refreshed oldest-first)
	,
Harmonic	Graph (voltage, current and power levels, content percentage and phase angle) List (voltage, current and power levels, content percentage and phase angle)
Waveform	Displays voltage and current waveform, voltage and current
	RMS values, and frequency.
	With a 3P3W3M connection, displays the phase voltage wave-
	form from the virtual neutral point.
Zoom	Enlarged view of 4 user-selected parameters
Trend	For one selected measurement item (except demand and harmon-
	ics), displays maximum, average and minimum values, with cursor
	calculations available (Note: with Trend display, there is no power-
	off backup function).

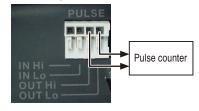
External interfaces Specifications		
SD card Interface	Settings data, measurement data, screen data, waveform data	
LAN interface	100BASE-TX IEEE802.3 Compliance	
	- HTTP server function	
	- FTP server function	
USB interface	USB Ver 2.0, Windows 10 (32/64bit)/ Windows 8 (32/64bit)/	
	Windows 7 (32/64bit)	
	- When connected to a computer, the SD Card and internal	
	memory are recognized as removable storage devices.	

Pulse output	
Function	Output pulse rate is proportional to active power consumption (WP+) when measuring integral power consumption
Pulse rate	OFF/ 1 Wh/ 10 Wh/ 100 Wh/ 1 kWh/ 10 kWh/ 100 kWh/ 1000 kWh (Default: 1 kWh)
Pulse width	approx. 100 ms
Output signal	Open-collector 30 V, 5 mA max (photocoupler isolated) Active Low

Pulse input terminals



Pulse output terminals



WIRE SPECIFICATIONS

Electric wires that conform with:

single line: $\phi 0.65$ mm (AWG22) twisted wire: 0.32 mm² (AWG22) strand diameter: $\phi 0.12$ mm or more

Supported electric wires:

single line: $\phi 0.32$ mm to $\phi 0.65$ mm (AWG28 to AWG22) twisted wire: 0.08 mm² to 0.32 mm² (AWG28 to AWG22) strand diameter: $\phi 0.12$ mm or more

exposed wire length: 8 mm

General Speci	fications
Display device	3.5 inch TFT color LCD (320 × 240 pixel)
	Japanese, English, Chinese, Korean, German, Italian, French, Spanish, Turkish Backlight auto-off function (after 2 minutes) When AUTO OFF is active, the Power LED blinks
Operating environment	Indoors, Pollution degree 2, altitude up to 2000 m (6562-ft.)
Operating temperature and humidity (no condensation)	-10°C to 50°C (14°F to 122°F), 80% RH or less During LAN communication: 0°C to 50°C (32°F to 122°F), 80% RH or less During battery operation: 0°C to 40°C (32°F to 104°F), 80% RH or less During battery charging: 10°C to 40°C (50°F to 104°F), 80% RH or less
Storage temperature and humidity (no condensation)	-20°C to 60°C (-4°F to 140°F), 80% RH or less However, the battery's storage temperature range is -20°C to 30°C (-4°F to 86°F), 80% RH or less
Dielectric strength	4.29 kVrms AC (1 mA sense current) between voltage input terminals and external terminals, 50/ 60 Hz for 60 sec.
Applicable standards	Safety: EN61010, EMC: EN61326, EN61000-3-2, EN61000-3-3
Power supply	•Z1006 AC Adapter (12 V, 1.25 A), Rated supply voltage 100 VAC to 240 VAC, Rated power supply frequency 50/60 Hz •Model 9459 Battery Pack (Ni-MH DC7.2 V 2700 mAh)
Charge function	Charges the battery regardless of whether the instrument is on or off. Charge time: Max. 6 hr. 10 min. (reference value at 23°C)
Maximum rated power	•When the Z1006 AC Adapter is used: 40 VA (including AC adapter), 13 VA (PW3360-20 instrument only) •When the 9459 Battery Pack is used: 3 VA
Continuous battery operation time	Approx. 6 hr. (Continuous, backlight off) (when using the battery pack)
Backup battery life	Clock and settings (Lithium battery), Approx. 10 years @23°C (@73.4°F)
Dimensions	Approx. 180W(7.09") × 100H(3.94") × 48D (1.89") mm (without PW9002) Approx. 180W(7.09") × 100H(3.94") × 68D (2.68") mm (with PW9002)
Mass	Approx. 550g (19.4 oz) (without PW9002), Approx. 830g (29.3 oz) (with PW9002)
Accessories	Voltage Cord L9438-53(1 set), AC Adapter Z1006 (1), USB cable(1), instruction manual (1), measurement guide (1), Color clip ×1 set: red, yellow, blue, white/two each, for color-coding clamp sensors, Spiral tubes for grouping clamp sensor cords ×5

Measurement S	pecifications Accuracy guaranteed for 1 year
Connection	Single-phase 2-wire (1P2W, 1P2W × 2 circuits, 1P2W × 3 circuits) Single-phase 3-wire (1P3W, 1P3W+I, 1P3W1U, 1P3W1U+I) Three-phase 3-wire (3P3W2M, 3P3W2M+I, 3P3W3M) Three-phase 4-wire (3P4W), Current only: 1 to 3 channels
Simultaneous power/current measurement modes	1P3W+I: 1 power circuit and 1 current channel 3P3W2M+I: 1 power circuit and 1 current channel
Calculation selection	Power factor, reactive and apparent power: rms calculation/ fundamental wave calculation
Measurement	Voltage: ±0.3% rdg. ±0.1% f.s.
accuracy (50/ 60Hz, power factor = 1)	Current: ±0.3% rdg. ±0.1% f.s. + clamp sensor accuracy Active power: ±0.3% rdg. ±0.1% f.s. +clamp sensor accuracy Clamp-On Sensor 9661 accuracy: ±0.3% rdg. ±0.01% f.s. (Accuracy depends on clamp sensor. See page 10 for the accuracy of each model, and page 11 for combined accuracy of Model PW3360-20 and each clamp sensor.)
Display update rate	Approx. 0.5 sec (except when accessing SD card or internal memory, or during LAN/USB communication) However, approx. 1 s for power-related values
Measurement method	Digital sampling and zero cross synchronization calculation method Sampling: 10.24 kHz (2048 points) Calculation processing 50 Hz: Continuous, gapless measurement at 10 cycles 60 Hz: Continuous, gapless measurement at 12 cycles
A/D converter resolution	16bit

Recording Specifications		
Save destination	SD Card, internal memory (capacity: approx. 320 KB)	
Save interval time	1/2/5/10/15/30 seconds, 1/2/5/10/15/20/30/60 minutes * Available storage time is displayed on PW3360-20's setting screen	
Save items	Measurement save: Average only / all (average, maximum, minimum) Harmonic data save: Binary format (average, maximum and	
	minimum) Screen save: ON/OFF Saves the displayed screen as a BMP at a fixed interval. (The minimum interval time for saving screen copies is 5 min. If the setting is less than 5 min., screen copies will be saved every 5 min.) Waveform save: Stores binary waveform data (with shortest interval 1 minute). When set to less than 1 minute, waveforms are saved	
	once every minute	
Recording start methods	Interval time, manual, specified time, repeat: Record period(00:00 to 24:00) Segment folder(off/day/week/month)	
Recording stop methods	Manual, specified time, timer, repeat (up to one year)	

Specifications in orange available in Model PW3360-21 only

Harmonic Spe	cifications (PW3360-21 only)		
Standard	IEC61000-4-7:2002 compliant, but without interharmonics		
Window width	10 cycles at 50 Hz, and 12 cycles at 60 Hz (with interpolation)		
Points per window	Rectangular, 2048 points		
Analysis orders	Up to the 40th order		
THD calculation selection	THD-F/THD-R		
Analysis items	Harmonic level: Voltage, current and power levels for each harmonic (U12 and I12 obtained by calculation of the third channel in 3P3W2M wiring are not displayed. Phase voltage is used for 3P3W3M wiring.)		
	Harmonic content: Voltage, current and power contents for each harmonic		
	Harmonic phase angle: Voltage, current and power phase angles for each harmonic		
	Total harmonic distortion factor: Voltage and current (THD-F or THD-R)		
Measurement	Harmonic level		
accuracy	1st to 15th orders : $\pm 5\%$ rdg. $\pm 0.2\%$ f.s.		
	16th to 20th orders : $\pm 10\%$ rdg. $\pm 0.2\%$ f.s.		
	21st to 40th orders : $\pm 20\%$ rdg. $\pm 0.3\%$ f.s.		
	For voltage and current, add accuracy of clamp sensor.		
	Harmonic power phase angle		
	1st to 3rd orders : ±3°+clamp sensor accuracy		
	4th to 40th orders : ±0.1°×k±3°+clamp sensor accuracy		
	For each harmonic order at 6 V, harmonic current level is regulated at 1% f.s.		
	Total harmonic distortion factor: Accuracy unspecified		

■ POWER LOGGER VIEWER SF1001 Specifications

General Specifications	
Supported models	$PW3360\text{-}20, PW3360\text{-}21, PW3365\\ LR5000 \text{ series; Data previously loaded by the LR5000 Utility (.hrp2 format) using a PC}$
	Windows 10 (32/64bit), Windows 8.1 (32/64bit), Windows 7 SP1 or later (32/64bit)



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Functions Spe	ecifications
Trend graph display function	Display items: Voltage, current, active power, reactive power, apparent power, power factor, frequency, integrated active power, integrated reactive power, demand volume, demand value, voltage disequilibrium factor, pulse, harmonics (level, content, phase angle, total value, THD) Stacked bar graph display: Up to 16 types of data series can be displayed in an overlay graph Cursor measurements: Measurement values can be displayed by the cursor
	Displayed items are the same as for the trend Graph Display
Summary display	Daily, weekly and monthly report displays: Accumulates and displays daily, weekly and monthly reports over specified period. Load factor calculation display: Calculates and displays load factor and demand factor results with daily, weekly and monthly reports
function	Time span aggregation: Aggregates data into up to four specified time spans
	CO2 equivalent display: Uses the specified conversion rate to display CO2 equivalent values (reference values).
Waveform display	Displays waveform data at specified date and time
	List display: Displays a list of harmonic data at specified date and time
Harmonic display	Graph display: Displays a bar graph of harmonic data at specified date and time
	Cursor calculation: Calculates measurement data at cursors in waveform and graph displays
Copy function	Captures any display image to the clipboard
	Preview and print content shown on the trend graph, report, harmonic graph and settings displays.
Print function	Comment entry (Text comments can be entered in any printout)
T TITLE TOTAL COLOT	Header/Footer settings: Sets the header and footer for each printout
	Printing support: Any color or monochrome printing supported by the operating system
Report printing	Print (static) contents over a specific time period
	Output contents: Standard or selected output items
	Available output items: Trend graph, summary, daily report, harmonic list, harmonic graph, waveform
	Report creation method: Standard print
	Report output settings: Save/load report output settings

■ CLAMP SENSOR Specifications

CLAMP ON SENSOR

CLAMP	UN SENSUR						
		9694	9660	9661	9669	9695-02	9695-03
Appearance		CE	((()	A C		Insulated conductor Not CE marked CONNECTION CORD	Insulated conductor Not CE marked
		Cord length: 3 m (9.84ft)	Cord length: 3 m (9.84ft)	Cord length: 3 m (9.84ft)	Cord length: 3 m (9.84ft)	Connect with the 9695-02/-03, Output BNC terminal	Cord length: 3 m (9.84ft)
Measurable conductor diameter		φ15 mm (0.59")	φ15 mm (0.59")	ф46 mm (0.81")	φ55 mm (2.17"), 80 (3.15")×20 (0.79") mm	φ15 mm (0.59")	φ15 mm (0.59")
Prima	ry current rating	5 A A C	100 A AC	500 A AC	1000 A AC	50 A AC	100 A AC
	Amplitude (45 to 66 Hz)	±0.3% rdg.	±0.3% rdg.	±0.3% rdg.	±1.0% rdg.	±0.3% rdg.	±0.3% rdg.
Accuracy	Amplitude (45 to 60 Hz)	±0.02% f.s.	±0.02% f.s.	±0.01% f.s.	±0.01% f.s.	±0.02% f.s.	±0.02% f.s.
	Phase (45 Hz to 5 kHz)	Within ±2°	Within ±1°	Within ±0.5°	Within ±1°	Within ±2°	Within ±1°
Frequency characteristic 40Hz to 5kHz (deviation from accuracy)			Within ±1.0%		Within ±2.0%	Within	±1.0%
	xternal magnetic field netic field of 400 A/ m AC)	Е	quivalent to 0.1 A or	less	Equivalent to 1 A or less	quivalent to 1 A or less Equivalent to 0.1 A or le	
Effect of conductor position			Within ±0.5%		Within ±1.5%	Within ±0.5%	
Maximum rated voltage to earth		CAT III 300 Vrms	CAT III 300 Vrms	CAT III 600 Vrms	CAT III 600 Vrms	CAT III 30	00 Vrms
Maximum input (45 to 66Hz)		50 A continuous	130 A continuous	550 A continuous	1000 A continuous	60 A continuous	130 A continuous
D	imensions	46W (1.81") × 135H (5.31")		77W (3.03") × 151H (5.94")	99.5W (3.92") × 188H (7.40")	50.5W (2.28")	()
		× 21D (0.83") mm	× 21D (0.83") mm	×42D (1.65") mm	× 42D (1.65") mm	× 18.7D (0	
Mass		230 g (8.1 oz)	230 g (8.1 oz)	380 g (13.4 oz)	590 g (20.8 oz)	50 g (1	.8 oz)

AC ELEXIBLE CURRENT SENSOR

CLAMP ON LEAK SENSOR (Leakage Current Measurement Only)

Appearance	AC FLEXIBLE CURRENT SENSOR			CLAMP	ON LEAK SE	NSOR (Leakage Current I	Measurement Only)		
Appearance Cord length: Sensor - circuit: 2 m (6.56ft) Circuit - connector: 1 m (3.28ft)			CT9667-01	CT9667-02	CT9667-03			9657-10	9675
Measurable conductor diameter 1/(3.94") 1/(7.09") 1/(10.00")	Appe	arance		h: Sensor - circuit: 2	m (6.56ft)	A	ppearance		
Primary current rating S00 A A C / 5000 A A C	Measurable co	nductor diameter				Magaurah	la canduator diameter	. , ,	· / / /
Accuracy Amplitude ±2.0% rdg. ±0.3% f.s. 45 to 66Hz Phase Within ±1° Frequency characteristic 10Hz to 20kHz (deviation from accuracy) Effect of external magnetic field (with a magnetic field (with a magnetic field of 400 A/m AC) Effect of conductor position Within ±3.0% Maximum input (45 to 66Hz) Dimensions Circuit box 280 g (9.9 oz.) Mass 280 g (9.9 oz.) Accuracy Amplitude (45 to 66 Hz) ±1.0% rdg. ±0.05% f.s. ±1.0% rdg. ±0.005% f.s. Accuracy Amplitude (45 to 66 Hz) ±1.0% rdg. ±0.05% f.s. Accuracy Amplitude (45 to 66 Hz) ±1.0% rdg. ±0.05% f.s. Within ±3° Within ±5° Within ±5% Effect of external magnetic field (with a magnetic field of 400 A/m AC) Within ±0.1% Maximum input (45 to 66 Hz) Observed the conductor of the c	Primary c	urrent rating		500 A AC / 5000	AAC			· ` /	
Accuracy Phase Within ±1° Phase Within ±1° Phase angle (@50 or 60 Hz) Effect of external magnetic field (with a magnetic field (with a magnetic field (with a magnetic field of 400 A/m AC) Effect of conductor position Within ±3.0% Effect of conductor position Within ±3.0% Within ±3.0% Effect of conductor position Within ±3.0% Within ±3.0% Effect of external magnetic field of 400 A/m AC) Effect of external magnetic field of 400 A/m AC) Effect of external magnetic field of 400 A/m AC) Effect of external magnetic field of 400 A/m AC) Effect of external magnetic field of 400 A/m AC) Effect of external magnetic field of 400 A/m AC) Within ±0.1% Measurable conductor Insulated conductor Maximum input (45 to 66Hz) 30 A continuous 10 A continuous 10 A continuous 10 A continuous 10 A continuous 280 g (9.9 oz.) 470 g (16.6 oz.) Afong (16.6 oz.) Afong (16.6 oz.) Effect of external magnetic field of 400 A/m AC) Within ±0.1% Within ±0.1% Within ±0.1% Within ±0.1% Measurable conductor Insulated conductor Insulated conductor Maximum input (45 to 66Hz) 30 A continuous 10 A continuous 10 A continuous 280 g (9.9 oz.) 470 g (16.6 oz.) Afong (16.6 oz.) Afon	Accuracy	Amplitude		±2.0% rdg. ±0.3	3% f.s.		,	-	-
Frequency characteristic 10Hz to 20kHz (deviation from accuracy) Effect of external magnetic field (with a magnetic field of 400 A/ m AC) Effect of conductor position Maximum rated voltage to earth Maximum input (45 to 66Hz) Dimensions Circuit box Sensor cable diameter Mass 280 g (9.9 oz.) LR06 alkaline battery × 2 (continuous operation max. 7 days) Vithin ±3 dB Effect of external magnetic field of 400 A/ m AC) Effect of external magnetic field of 400 A/ m AC) Effect of external magnetic field of 400 A/ m AC) Effect of conductor position Within ±5% Frequency characteristic 40 Hz to 5 kHz (deviation from accuracy) Effect of external magnetic field of 400 A/ m AC) Effect of external magnetic field of 400 A/ m AC) Measurable conductor Maximum input (45 to 66Hz) Sensor cable diameter \$\phi\$ of \$\frac{1}{2}\$ (deviation from accuracy) Frequency characteristic 40 Hz to 5 kHz (deviation from accuracy) Frequency characteristic 40 Hz to 5 kHz (deviation from accuracy) Frequency characteristic 40 Hz to 5 kHz (deviation from accuracy) Frequency characteristic 40 Hz to 5 kHz (deviation from accuracy) Frequency characteristic 40 Hz to 5 kHz (deviation from accuracy) Frequency characteristic 40 Hz to 5 kHz (deviation from accuracy) Frequency characteristic 40 Hz to 5 kHz (deviation from accuracy) Frequency characteristic 40 Hz to 5 kHz (deviation from accuracy) Frequency characteristic 40 Hz to 5 kHz (deviation from accuracy) Frequency characteristic 40 Hz to 5 kHz (deviation from accuracy) Frequency characteristic 40 Hz to 5 kHz (deviation from accuracy) Frequency characteristic 40 Hz to 5 kHz (deviation from accuracy) Frequency characteristic 40 Hz to 5 kHz (deviation from accuracy) Frequency characteristic 40 Hz to 5 kHz (deviation from accuracy) Frequency characteristic 40 Hz to 5 kHz	(45 to 66Hz)	Phase				Accuracy			-
(with a magnetic field of 400 A/m AC) 2.476 T.S. of Tess. Effect of conductor position 2.476 T.S. of Tess. Effect of conductor position Effect of conductor position Within ±3.0% Effect of external magnetic field (with a magnetic field of 400 A/m AC) 7.5 mA max. 7.5 mA max. Maximum input (45 to 66Hz) 10000 A continuous 10000 A continuous Measurable conductor Insulated conductor Insulated conductor Dimensions Circuit box sensor cable diameter 35W (1.38") × 120H (4.74") × 34D (1.34") mm (4.5 to 66Hz) (45 to 66Hz) 30 A continuous 10 A continuous Mass 280 g (9.9 oz.) 470 g (16.6 oz.) Dimensions 74W (2.91") × 145H (5.71") (60W (2.36") × 112.5H (4.43") (2.5 to 60 pc.) Power supply LR06 alkaline battery × 2 (continuous operation mag. 7 days) Mass 380 g (13.4 oz) 160 g (5.6 oz)	10Hz to 20kHz (de	viation from accuracy)		Within ±3 dB			ncy characteristic		
Effect of conductor position Within ±3.0%				2.4% f.s. or l	ess.	77			
Maximum input (45 to 66Hz) 10000 A continuous 10000 A continuous Measurable conductor Insulated conductor Insulated conductor Maximum input (45 to 66Hz) 35W (1.38") × 120H (4.74") × 34D (1.34") mm (45 to 66Hz) Maximum input (45 to 66Hz) 30 A continuous 10 A	, ,	,		Within ±3.0	%			7.5 mA max.	7.5 mA max.
(45 to 66Hz) 10000 A continuous Instance conductor Instance conductor Instance conductor Instance conductor Dimensions Circuit box Sensor cable diameter 35W (1.38") × 120H (4.74") × 34D (1.34") mm (45 to 66Hz) (45 to 66Hz) 30 A continuous 10 A continuous Mass 280 g (9.9 oz.) 470 g (16.6 oz.) Dimensions 74W (2.91") × 145H (5.71") (60W (2.36") × 112.5H (4.43") (2.36")	Maximum rate	d voltage to earth	CAT III	1000 Vrms, CA	T IV 600 Vrms	Effect of	conductor position	Within ±0.1%	Within ±0.1%
Maximum input (45 to 66Hz) 35W (1.38") × 120H (4.74") × 34D (1.34") mm (45 to 66Hz) 30 A continuous 10 A conti			10000 A continuous		Measi	urable conductor	Insulated conductor	Insulated conductor	
Sensor cable diameter \$\phi^{7.4}\$ mm (0.29") \$\phi^{13}\$ mm (0.51") Dimensions 74W (2.91") \times 145H (5.71") 60W (2.36") \times 112.5H (4.43") \times 23.6D (0.95")	,	Circuit box	35W (1.38"					30 A continuous	10 A continuous
Mass 280 g (9.9 oz.) 470 g (16.6 oz.) × 42D (1.65") × 23.6D (0.95") Power supply LR06 alkaline battery × 2 (continuous operation max. 7 days) Mass 380 g (13.4 oz) 160 g (5.6 oz)	Difficitsions	Sensor cable diameter		nm (0.29")	φ13 mm (0.51")	D	imensions	74W (2.91") × 145H (5.71")	60W (2.36") × 112.5H (4.43")
Power supply	M	ass	280 g	(9.9 oz.)	470 g (16.6 oz.)			× 42D (1.65")	× 23.6D (0.95")
or AC ADAPTER 9445-02/9445-03 (optional) Notes Not used for power measurements	Powe	r sunnly		*	1 ,		Mass	380 g (13.4 oz)	160 g (5.6 oz)
	Fowe	г зирріў	or AC AI	DAPTER 9445-02/9	1445-03 (optional)		Notes	Not used for pow	ver measurements

^{*} Maximum AC measurement range with PW3360-20 is 5 A.

Available Recording Time

PW3360-20 and PW3360-21 with Z4001 2-GB SD card, measuring 3P4W wiring

Saved Items: ALL data (Saves all data: average, maximum, and minimum values) Screen save: OFF Waveform save: OFF

	Save Time			
	PW3360-20	PW3360-21		
Interval time	PW3360-21			
	(Saving of harmonic	(Saving of harmonic		
	data: OFF)	data: ON)		
1 seconds	14 days	23 hours		
2 seconds	28 days	46 hours		
5 seconds	69 days	4 days		
10 seconds	139 days	9 days		
15 seconds	209 days	14 days		

	Save Time		
	PW3360-20	PW3360-21	
Interval time	PW3360-21		
	(Saving of harmonic	(Saving of harmonic	
	data: OFF)	data: ON)	
30s	1 year	28 days	
1 minutes	1 year	57 days	
2 minutes	1 year	115 days	
5 minutes	1 year	288 days	
More than	1 year	1 year	
10 minites	1 year	1 year	

The maximum recording time based on the settings can be confirmed right on the Settings screen.

In any case, the maximum file size for measurement data is about 200 MB. When this is exceeded, a new file is created and saving continues.

<NOTE>

Regardless of the settings, the maximum save time of the PW3360-20, PW3360-21 is one year.

■ Measurement Range Configurations

	Current	(CLAMP ON SEN	NSOR 9694 (C	AT III 300 V) *1	
		C	CLAMP ON SEN	ISOR 9695-02	(CAT III 300 V)
Voltage	Connection	500.00 mA	1.0000 A	5.0000 A	10.000 A	50.000 A
	1P2W	300.00 W	600.00 W	3.0000 kW	6.0000 kW	30.000 kW
	1P3W	600.00 W	1.2000 kW	6.0000 kW	12.000 kW	60.000 kW
600.00 V	1P3W1U					
600.00 V	3P3W2M					
	3P3W3M					
	3P4W	900.00 W	1.8000 kW	9.0000 kW	18.000 kW	90.000 kW

*1. For the 9694 sensor, the range of guaranteed accuracy is from 500 mA to 5 A, and for the 9695-02, from 500 mA to 50 A.

Current	CLAMP ON S	ENSOR 9660,	9695-03 (CAT	III 300 V) *2	
	(CLAMP ON S	ENSOR 9661		
Connection	5.0000 A	10.000 A	50.000 A	100.00 A	500.00 A
1P2W	3.0000 kW	6.0000 kW	30.000 kW	60.000 kW	300.00 kW
1P3W					
1P3W1U	6 0000 1-W	12 000 1-33	60,000 1-337	120 00 1447	600.00 kW
3P3W2M	6.0000 KW	12.000 KW	00.000 KW	120.00 KW	600.00 KW
3P3W3M					
3P4W	9.0000 kW	18.000 kW	90.000 kW	180.00 kW	900.00 kW
	1P2W 1P3W 1P3W1U 3P3W2M 3P3W3M	Connection 5.0000 A 1P2W 3.0000 kW 1P3W 1P3W1U 3P3W2M 3P3W3M 6.0000 kW	CLAMP ON S 5.0000 A 10.000 A 1P2W 3.0000 kW 6.0000 kW 1P3W 1P3W1U 3P3W2M 3P3W3M 12.000 kW	Connection 5.0000 A 10.000 A 50.000 A 1P2W 3.0000 kW 6.0000 kW 30.000 kW 1P3W 6.0000 kW 12.000 kW 60.000 kW 3P3W2M 3P3W3M 6.0000 kW 12.000 kW 60.000 kW	Connection 5.0000 A 10.000 A 50.000 A 100.00 A 1P2W 3.0000 kW 60.0000 kW 30.000 kW 60.000 kW 1P3W 1P3W1U 3P3W2M 3P3W3M 12.000 kW 60.000 kW 120.000 kW 120.0000 kW 120.000 kW 120.000 kW 120.000 kW 120.0000 kW 120.000

^{*2.} For the 9660 and 9695-03 sensors, the range of guaranteed accuracy is from 5 A to 100 A, and for the 9661, from 5 A to 500 A.

Total display range

Voltage is displayed from 5 V to 1000 V, with less than 5 V displayed as 0 V.

Current is displayed from 0.4% to 130% of the selected range, with less than 0.4% displayed as 0 A $\,$

Power is displayed from 0 to 130% of full scale, with 0 W displayed when voltage or current is zero.

The range configurations for apparent power (S) and reactive power (Q) are the same, with units of [VA] and [var], respectively.

When VT and CT ratios are set, the range configuration is the product (VT ratio \times CT ratio).

Effective measurement range

For voltage, 90 to 780 V, with max. 1400 V peak. For current, 5% to 110% of the selected range with peak $\pm 400\%$ of range, but maximum range is $\pm 200\%$. For power, 5% to 110% of the selected range. For frequency, 45 to 66 Hz.

	00 4114 7 0 7 0 0 0 0 0 0 1 1 1	, ,			
Current		CLAMP ON SENSOR 9669			
Voltage	Connection	100.00 A	200.00 A	1.0000 kA	
	1P2W	60.000 kW	120.00 kW	600.00 kW	
	1P3W				
600.00 V	1P3W1U	120.00 kW	240.00 kW	1.2000 MW	
600.00 V	3P3W2M	120.00 KW	240.00 KW	1.2000 IVI W	
	3P3W3M				
	3P4W	180.00 kW	360.00 kW	1.8000 MW	

	Current		BLE CURRE	ENT SENS	OR CT9667-	01, -02, -03
		500 A	range	500/5000 A range	5000 A	range
Voltage	Connection	50.000 A	100.00 A	500.00 A	1.0000 kA	5.0000 kA
	1P2W	30.000 kW	60.000 kW	300.00 kW	600.00 kW	3.0000 MW
	1P3W	60.000 kW	120.00 kW	600.00 kW	1.2000 MW	6.0000 MW
600.00V	1P3W1U					
000.000	3P3W2M					
	3P3W3M					
	3P4W	90.000 kW	180.00 kW	900.00 kW	1.8000 MW	9.0000 MW

Leak current: CLAMP ON LEAK SENSOR 9657-10, 9675 Range 50.000 mA/100.00 mA/500.00 mA/1.0000 A/5.0000 A

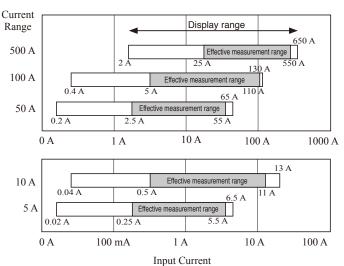
■ Measurement accuracy

Voltage	±0.3% rdg. ±0.1% f.s.
Current	±0.3% rdg. ±0.1% f.s. + clamp sensor accuracy
Active power	$\pm 0.3\%$ rdg. $\pm 0.1\%$ f.s. + clamp sensor accuracy (power factor = 1)

Combined accuracy of PW3360-20 + clamp sensors

Range	9694	9695-02
50.000 A		±0.6% rdg. ±0.12% f.s.
10.000 A		±0.6% rdg. ±0.2% f.s.
5.0000 A	$\pm 0.6\%$ rdg. $\pm 0.12\%$ f.s.	±0.6% rdg. ±0.3% f.s.
1.0000 A	$\pm 0.6\%$ rdg. $\pm 0.2\%$ f.s.	±0.6% rdg. ±1.1% f.s.
500.00 mA	±0.6% rdg. ±0.3% f.s.	±0.6% rdg. ±2.1% f.s.
Range	9660, 9695-03	9661
500.00 A	_	±0.6% rdg. ±0.11% f.s.
100.00 A	$\pm 0.6\%$ rdg. $\pm 0.12\%$ f.s.	±0.6% rdg. ±0.15% f.s.
50.000 A	±0.6% rdg. ±0.14% f.s.	±0.6% rdg. ±0.2% f.s.
10.000 A	±0.6% rdg. ±0.3% f.s.	±0.6% rdg. ±0.6% f.s.
5.0000 A	±0.6% rdg. ±0.5% f.s.	±0.6% rdg. ±1.1% f.s.
Range	966	59
1.0000 kA	±1.3% rdg	. ±0.11% f.s.
200.00 A	±1.3% rdg	. ±0.15% f.s.
100.00 A	±1.3% rdg	. ±0.2% f.s.
Range	CT9667 ⁻⁰¹ ₋₀₃ 5000A range	CT9667 ⁻⁰¹ / ₋₀₃ 500A range
5.0000kA	±2.3% rdg. ±0.4% f.s.	_
1.0000kA	±2.3% rdg. ±1.6% f.s.	_
500.00A	±2.3% rdg. ±3.1% f.s.	±2.3% rdg. ±0.4% f.s.
100.00A		±2.3% rdg. ±1.6% f.s.
50.000A	_	±2.3% rdg. ±3.1% f.s.

■ Current Display and Effective Measurement Ranges (typical)



Conditions of guaranteed accuracy	After 30 minute warm-up, with 50/60 Hz sine wave input		
Temperature and humidity	$23^{\circ}\text{C} \pm 5^{\circ}\text{C} (73 \pm 9^{\circ}\text{F}), 80\%\text{RH or less}$		
for guaranteed accuracy	(applies to all specifications unless otherwise noted)		
Display area of guaranteed accuracy	Effective measurement range		
Real-time clock accuracy	Within ±0.3 sec/day (at power ON, 0°C to 50 °C) Within ±0.5 sec/day (at power ON, -10°C to 0 °C)		
Temperature characteristic	Within ±0.1% f.s./°C (except 23 ±5°C)		
Effect of common mode voltage	Within ±0.2% f.s. (600 V AC, 50/60 Hz, between voltage input terminal and case)		
Effect of external magnetic field	Within ±1.5% f.s. (in a magnetic field of 400 A/m rms AC, 50/60 Hz)		
Effect of phase	Phase accuracy $\pm 1.3^{\circ}$ equivalent (with 50/60 Hz f.s. input)		
Apparent power	±1 dgt. for the calculation obtained from each measurement value		
Reactive power	Fundamental waveform calculations		
	±0.3% rdg. ±0.1% f.s. + clamp-on sensor accuracy (w/power factor = 1)		
	Rms calculations From each measurement applied to calculation ±1 dgt.		
Fnorm	Active and reactive power measurement accuracies ±1 dgt.		
Energy Power factor			
	From each measurement applied to calculation ±1 dgt.		
Frequency	±0.5% rdg. (with 90 to 780 V sine wave input)		
Demand value	Active and reactive power measurement accuracies ±1 dgt.		
Demand quantity	Active and reactive power measurement accuracies ±1 dgt.		
Pulse input	±1 dgt. for the calculation obtained from each measurement value		
Frequency characteristic	At 50/60 Hz fundamental waveform frequency,		
	up to 1 kHz, ±3% rdg. ±0.2% f.s.		
	up to 3kHz, $\pm 10\%$ rdg. $\pm 0.2\%$ f.s.		
	For current and active power, add clamp-on sensor accuracy.		
	Note: only for 3P3W3M wiring, add ±0.5% rdg.		



Model: CLAMP ON POWER LOGGER PW3360

Model No. (Order Code) (Note)

PW3360-20 (English model, main unit only)

PW3360-21 (English model, with harmonic analysis function) Accessories: Voltage cord L9438-53 ×1 set, AC adapter Z1006 ×1, USB cable ×1, Instruction manual ×1, Measurement guide ×1, Color clip ×1 set: red, yellow, blue, white/two each, for color-coding clamp sensors, Spiral tubes for grouping clamp sensor cords ×5, Application Software CD (SF4000

Note: At least one optional current sensor is necessary to measure current or power parameters. To store measurement data, use only the guaranteed SD cards sold by HIOKI.

Bundled Accessories -----

AC ADAPTER Z1006

VOLTAGE CORD L9438-53





cord length: 3m (9.84 ft)

1 cord each of black, red vellow. and blue, and five spiral tubes for bundling cords

Options

CLAMP ON SENSOR (for load current measurement)

CLAMP ON SENSOR 9694 (5 AAC)

CLAMP ON SENSOR 9660 (100 A AC) CLAMP ON SENSOR 9661 (500 AAC)

CLAMP ON SENSOR 9669 (1000 AAC)

AC FLEXIBLE CURRENT SENSOR CT9667-01 (5000 A AC)

AC FLEXIBLE CURRENT SENSOR CT9667-02 (5000 A AC)

AC FLEXIBLE CURRENT SENSOR CT9667-03 (5000 A AC)

CLAMP ON SENSOR (Not CE marked) 9695-02 (50 A AC)

CLAMP ON SENSOR (Not CE marked) 9695-03 (100 A AC)

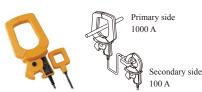
CONNECTION CORD 9219 (for connection to 9695-02, 9695-03) When purchasing the 9695-02 and 9695-03, we recommend also purchasing the separately sold 9219 Connection Cord.

CLAMP ON LEAK SENSOR

CLAMP ON LEAK SENSOR 9657-10 CLAMP ON LEAK SENSOR 9675

CLAMP ON ADAPTER

9290-10 MAX. 1500 A AC (continuous: 1000 A)



CAT III 600 V Cord length: 3 m (9.84 ft)

Measurable conductor diameter

φ55 mm (2.17 in)

Bus bar: ■ 80 mm (3.46in) × 20 mm (0.79 in)

CT ratio: 10:1

PATCH CORD

L1021-01



Banana branch-banana, Red: 1. Cable length: 0.5 m, For branching from the L9438-50 or L1000, CAT IV 600 V. CAT III 1000 V

L1021-02



Banana branch-banana, Black: 1, Cable length: 0.5 m, For branching from the L9438-50 or L1000, CAT IV 600 V. CAT III 1000 V

Storage media

SD MEMORY CARD 2GB SD MEMORY CARD 8GB Z4001 Z4003





Stores up to one year's data when acquired at one minute intervals.

Use only SD Cards sold by HIOKI. Compatibility and performance are not guaranteed for SD cards made by other manufacturers. You may be unable to read from or save data to such cards.

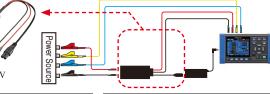
VOLTAGE LINE POWER ADAPTER

PW9003

(supplies power from measurement lines)

Rated voltage: 240 V AC Operating temperature and humidity range: -10 to 50°C, 80% RH or less





Battery Case and Battery Pack Set PW9002

BATTERY SET

BATTERY PACK 9459 NiMH, Charges while installed in the main unit

CARRYING CASE

C1005



MAGNET ADAPTER



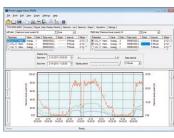
(generally compatible with M6 pan screws)

Magnetic tip for use with the standard VOLTAGE CORD L9438-53

Red and black adapters sold separately. Purchase the quantity and color appropriate for your application. (Example: 3P3W-3 adapters, 3P4W-4 adapters)

POWER LOGGER VIEWER

SF1001



LAN CABLE

9642



Straight Ethernet cable, supplied with straight to cross conversion adapter, 5 m (16.41 ft) length

Approx. 390W (15.4")×275H (10.8")×110D (4.3") mm

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