

CLAMP ON POWER LOGGER PW3365

Power Measuring Instruments



Eliminate the risk of short-circuits and electrical accidents







The world's first instrument to offer no-metal-contact power measurement

Free from the risk of short-circuit accidents since no metal comes into contact with energized parts, the Clamp On Power Logger PW3365-20 can measure voltage, current, and power right on the cable, letting you safely test in locations that were dangerous or even impossible in the past.

Safe, Easy, Voltage Measurement

The PW3365-20's dedicated voltage sensor delivers the world's first no-metal-contact measurement.

Free yourself from the risk of short-circuits by measuring right on the cable sheath without ever needing to touch metal to energized parts

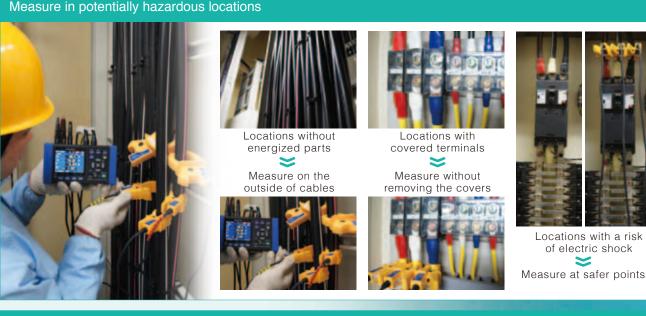




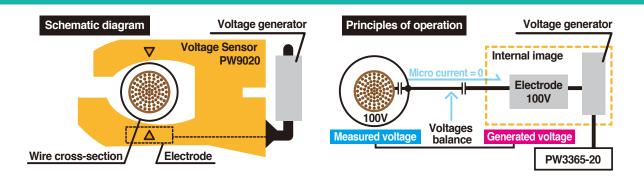
Freely clip either horizontally or vertically



Measure both thick and thin cables



How is voltage measured without any metallic contact?



Inside the PW9020 is an electrode (a metal plate). When there is a potential difference between this electrode and the measured line, a minute current flows as a result. By detecting this minute current and generating a voltage such that the current declines to zero, it is possible to accurately measure the voltage without being affected by the outer diameter of the measured cable or its insulation.



Enlarged view of clamp



Actual maximum size : ϕ 30mm Actual minimum size : ϕ 6mm

Compatible conductor diameters

SAFETY VOLTAGE SENSOR PW9020 Specifications					
Compatible conductor types	Insulated wires*1 In door PVC or metal parts				
Compatible conductor diameters	Finished outer diameter ø6mm to ø30mm				
Effective measurement range	90 V to 520 V				
Accuracy	±1.5% rdg. ±0.2% f.s. (combined accuracy with PW3365-20)*2				
Effect of phase	Accuracy combined with the PW3365-20 is within ±1.3% (at 50/60Hz, f.s. input)				
Maximum rated voltage to earth	CATIV 300V / CATIII 600V				
Cord length	3m (9.84 ft)				
Mass	Approx. 220g (7.8 oz)				
Operating temperature and humidity	0°C to 50°C(32°F to122°F), 80% RH or less (no condensation)				
Storage temperature and humidity	-10°C to 60°C (14°F to 122°F), 80% RH or less (no condensation)				
Dielectric strength	7.06k Vrms AC				
Applicable standards	Safety: EN61010, EMC: EN61326				



includes relay box on cord



Soil, residue, or moisture on the insulated wires may result in lower voltage and power values than their true values. Use a dry cloth to remove before measuring.

*1: Shielded wires cannot be measured.
 *2: For frequencies of 45 Hz to 66 Hz. Effects of humidity: Add the following to the combined accuracy (for voltage, power, and phase) with the PW3365-20 Accuracy within ±1% f.s., phase within ±1°, measuring an insulated wire at a humidity of 70% to 80% RH Effects of adjacent wires: Add the following to the combined accuracy (for voltage and power) with the PW3365-20 Within ±1% i.s. while a wire with a phase difference of 400 V is in contact with the grip

Configure Settings with Quick Set

Graphical, easy-to-understand guidance for connection procedures

Quick Setup guides you through the process of setting up the instrument for measurement, right up to starting measurement, on the screen to simplify set work. Since any mistaken connections will trigger a FAIL message, the feature also helps prevent measurement mistakes. If you receive a FAIL result, the instrument will also indicate the location of the problem.

Setup Flow (example: 3P4W)

STEP1 Quick Set START / Choose the wire type

STEP2 Connect the leads to the PW3365-20



Connect the voltage sensor

STEP3

BuickSet 3/3 U Virine 11525 BuickSet 3/3 U Virine 11525 U Virine 11555 U Virine 115555 U Virine 115



 STEP4
 Connect the clamp sensors

MENTICE NEXT

STEP5

Select the current range



If you receive a FAIL result

Highlight the FAIL message with the cursor and press ENTER to view information about where the connection needs to be corrected.

Measurement

Miswiring Example (Clamp Orientation)

PASS

Neither power nor power factor can be measured accurately with the clamp in the wrong orientation.



The I vector's phase direction is within the determination area.

P: 17.8kW

I123 9661

The I vector's phase direction is opposite the determination area



P: 6.2kW Power displayed value is too low

CURR PHASE Red means : FAIL VOLT PHASE Green means : PASS

Review Results At the Worksite

Display measured values as a graph and evaluate results at a glance

Measured values can be displayed as a graph, which is convenient when using the instrument in power management applications. Since you can statistically review not only the measured value at that moment, but also measured values that have been recorded, it's easy to check values on the spot.



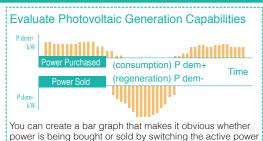
24 hours at a 30-minute interval

Demand Graph Display

Display demand value trends

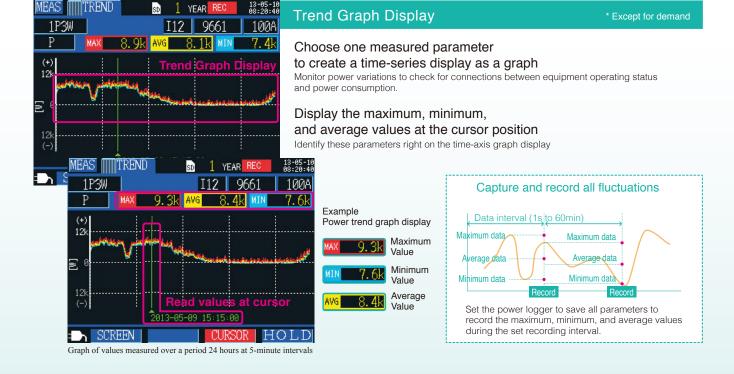
It's easy to check the maximum demand value and the time at which it occurred.

Particularly useful in power management applications



demand value display from consumption to regeneration

Bar graph of values measured over a period of



MEAS INTEG.	SD 8. 2DAY REC 14-06-09 13:03:27
3P3W2M	I12 9661 50A
ACTIVE POWER	CONS WP+ 53.7306kWh REGEN WP- 0.0000kWh
REACTIVE PWR	LAG WQ+ <u>20.7860k</u> varh LEAD WQ- <u>0.0000k</u> varh
START STOP ELAPSED	2014-06-07 19:30:00 2015-06-08 19:30:00 0041:33:27
ENERGY COST	1.07461kUSD
SCREEN	HOLD

Display electricity charges

Convert integrated power use to electricity charges

Know how much you are spending on electricity in realtime

Displaying electricity charges Active power use 1 kWh × set rate



electricity charges 1074.61 USD

Calculate electricity charges

[Example screenshot to left] The electricity charge per 1kWh has been set to \$20 Active power use 53.7306kWh × set rate 20 USD

Save & Analyze Results on a PC

Easily download and interpret data on a PC

Download the measurement results to a computer via the power logger's LAN or USB interface or its SD card. Once data has been downloaded, it can be graphed easily with free software. For more detailed analysis, Hioki's optional SF1001 application software is recommended.

Storage media for data

SD card 2GB

Stores up to one year's data that is acquired at one minute intervals. Performance cannot be guaranteed on storage media other than SD cards sold by Hioki.

Loading data







Available Recording Time

Measurement Interval	Save Time	Measurement Interval	Save Time		
1 seconds	15.6 days	30 seconds	1 year		
2 seconds	2 seconds 31.2 days		1 year		
5 seconds	77.9 days	2 minutes	1 year		
10 seconds 155 days		5 minutes	1 year		
15 seconds	233 days	More than 10 minites	1 year		

[Save conditions for above figures]

Measurement target : 3P4W

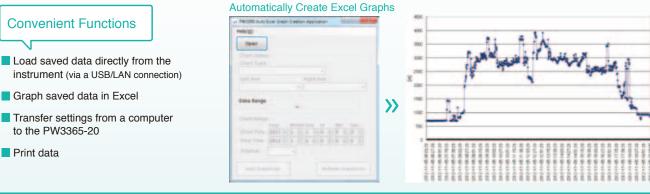
Storage media : Z4001 2-GB SD card

Saved parameters : All data: average, maximum, and minimum values Screen copy saving : OFF Waveform save : OFF

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

Freeware (free download from the Hioki website)

in order to download data to a computer using the instrument's LAN or USB interface



Power Logger Viewer SF1001 (option, sold separately/for PW3365, PW3360, PW3198)

Display, tabulate, analyze, and print saved data

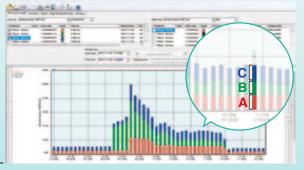
Trend graph display

- Summary display
- Waveform display
- Сору
- Print
- Report printing

B Source

Example of a Stacked Graph Display

You can combine power consumption data measured at multiple locations into a single graph to capture the total power demand across a facility, allowing you to identify time periods and locations characterized by high power consumption at a glance.



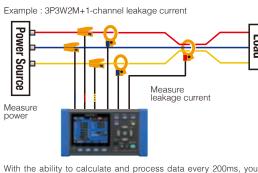
Convenient Functions For the Worksite

More Uses for the PW3365-20

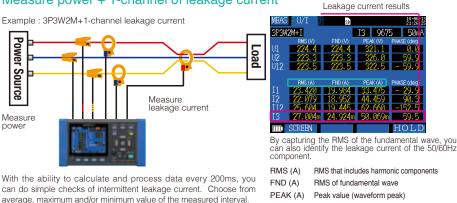
The Hioki PW3365-20 is not just a power logger. Added-value features and functions let you meet many other electrical testing applications.

Leakage Current Measurement

Measure power + 1-channel of leakage current

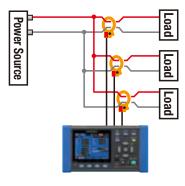


average, maximum and/or minimum value of the measured interval.



Requires optional clamp-on leak sensor

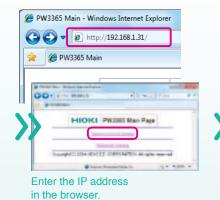
Measure 3 channels of leakage current



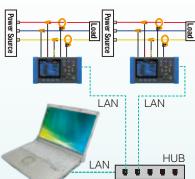
Control and monitor from a remote location

Use a LAN cable to connect the PW3365-20 to a personal computer for real-time remote monitoring and measurement display on a web browser.

Files recorded in the Clamp On Power Logger's internal memory or SD card are accessible via a LAN or USB connection, and are downloadable using the free PW3365-20 Setup and Download Software





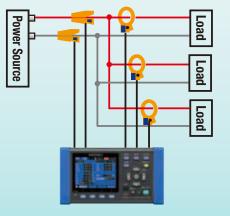


Display the power logger's screen and make adjustments virtually by clicking the buttons and entering new information.

Simultaneous Measurements

Other convenient features

Measure three single-phase, 2-wire circuits in the same system at the same time





Compact, lightweight Small form factor lets you set the power logger even inside cramped cubicles

Key lock function Lock the buttons to prevent erroneous operation



Battery power Power the instrument for about five hours with batteries if the power goes out

Display hold Freeze the displayed value for easier reading

Outage recovery Resume recording automatically following recovery from a power outage

PW3365-20 Specifications

No dirt or moisture on insulated wire or voltage sensor
Product guaranteed for one year

Measurem	ent					
Number of input	channels	Voltage: 3 channels / Current: 3 channels				
Measurement targets (50/60Hz)		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/Y-wiring only) Three-phase 4-wire (3P4W), Current only: 1 to 3 channels				
Simultaneous power/current measurement m	odes	1P3W+I: 1 power circuit and 1 current channel3P3W2M+I: 1 power circuit and 1 current channel				
	Voltage	RMS value, fundamental wave value, waveform peak (absolute value), fundamental wave phase angle, frequency (U1)				
	Current	RMS value, fundamental wave value, waveform peak (absolute value), fundamental wave phase angle				
Measurement items	Power	Active power, reactive power, apparent power, power factor, (with lag/lead display) or displacement power factor (with lag/lead display), active energy (consumption, regeneration), reactive energy(lag, lead) Energy cost display (per-kWh price × power consumption)				
	Demand	Active power demand value (lag, lead), reactive power demand quantity (consumption, regeneration), reactive power demand quantity (lag, lead), power factor demand value				
		400 V AC				
Voltage range		Total display area: 5V to 520 V (less than 5 V displays as 0 V)				
		Effective measurement range: 90 V to 520 V, peak: ±750V [OVER] indicates over-range warning				
		CLAMP ON SENSOR 9660 : 5/10/50/100 A				
		CLAMP ON SENSOR 9661 : 5/10/50/100/500 A				
		CLAMP ON SENSOR 9669 : 100/200/1k A				
	Lood	CLAMP ON SENSOR 9694 : 500m/1/5/10/50 A				
	Load current	CLAMP ON SENSOR 9695-02 : 500m/1/5/10/50 A				
		CLAMP ON SENSOR 9695-03 : 5/10/50/100 A				
Current ranges	-	AC FLEXIBLE CURRENT SENSOR CT9667-01, -02, -03 : 50/100/500 A (500A range)				
		AC FLEXIBLE CURRENT SENSOR CT9667-01, -02, -03 : 500/1k/5k A (5000A range)				
		LEAK CLAMP ON SENSOR 9675 : 50m/100m/500m/1/5 A				
	Leakage current	LEAK CLAMP ON SENSOR 9657-10 : 50m/100m/500m/1/5 A				
		Total display range: Within 0.4 to 130% of the range (zero is suppressed for less than 0.4%)				
		Effective measurement range: Within 5 to 110% of the range [OVER] indicates over-range warning				
		Effective measurement range: Within 5 to 110% of the range [OVER] indicates over-range warning 200.00 W to 6.0000 MW				
		Depends on voltage/current combination and measured line type (see Measurement Range Configuration Tables)				
Power ranges		Total display range: Within 0 to 130% of the range ("0W" display indicates zero rms voltage and/or current)				
		Effective measurement area: Within 5 to 130% of the range				
(50/60Hz)		Voltage : ±1.5% rdg. ±0.2% f.s. (combined accuracy with PW3365-20 + PW9020) Current : ±0.3% rdg. ±0.1% f.s. + clamp sensor accuracy Active power : ±2.0% rdg. ±0.3% f.s. + clamp sensor accuracy (power factor = 1)				
Calculations		RMS calculation/ fundamental wave calculation				
VT ratio settings		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 Selections 1/40/60/80/120/160/200/240/300/400/600/800/1200				
Input methods Vol		Voltage: Isolated inputs using Voltage Sensor PW9020 Current: Isolated input using a clamp-on sensor				
Display update rate Approx. 0.5 sec (except when accessing SD card or internal memory, or during LAN/USB communication)						
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 re	solution	16bit				

 $^{\ast 1}$ For individual clamp sensors' accuracy and combined accuracy figures, see pages 10 and 11.

Screen display		
List	Voltage, current, frequency, active/apparent/reactive power power factor, integrated power use, elapsed time	
U/I	RMS value, fundamental wave value, waveform peak, phase angle	
Power	Per-channel and total active power, apparent power, reactive power, power factor	
Integ	Active energy, reactiv energy, recording start time recording stop time, elapsed time, energy cost	
Demand	Active power demand value, reactive power demand value power factor demand value	
Waveform	Displays voltage and current waveform	
Zoom	Enlarged view of 4 user-selected parameters	
Trend	For one selected measurement item displays maximum, average and minimum values	

Recording	
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 the PW3365-20's setting screen
Save items	Measurement save : Average only/average, maximum, minimum Screen save : Saves the displayed screen as a BMP at a fixed interval* ¹ Waveform save : Stores binary waveform data* ²
Recording start methods	Interval time, manual, or at specified time, repeat
Recording stop methods	Manual, or at specified time (up to one year), timer

*1 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.
 *2 With shortest interval of 1 minute. When set to less than 1 minute, waveforms are saved once every minute

External interfaces			
SD card	Settings data, measurement data, screen data, waveform data		
LAN	10BASE-T/100BASE-TX IEEE802.3 Compliance - HTTP server function		
USB	USB Ver 2.0, Windows 8 (32/64bit)/Windows 7 (32/64bit) / Vista (32bit) / XP - When connected to a computer, the SD Card and internal memory are recognized as removable storage devices.		
LAN/USB	Download settings and data using free application program		

General	
Product guarantee	One year
	3.5 inch TFT color LCD (320 × 240 pixel)
Display	Japanese, English, Chinese 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 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	0°C to 60°C (32°F to 140°F), 80% RH or less
temperature and humidity	However, the battery's storage temperature
(no condensation)	range is -10°C to 30°C (14°F to 86°F)
Maximum rated voltage between terminals	Voltage input section : 1.7 VAC, 2.4 Vpeak Current input section : 1.7 VAC, 2.4 Vpeak
Maximum rated voltage to earth	Voltage input section: 600V Measurement Category III 300V Measurement Category IV Current input section: Depends on clamp sensor in use.
Dielectric strength	7.06 kVrms AC
Applicable standards	Safety: EN61010, EMC: EN61326, EN61000-3-2, EN61000-3-3
Power supply	 (1) Z1008 AC Adapter : 100 VAC to 240 VAC Maximum rated power : 45VA (including AC adapter) (2) Model 9459 Battery Pack : Ni-MH DC7.2 V 2700 mAh Continuous battery operation time Approx. 5 hr. Maximum rated power : 3VA
Charge function	Charge time: Max. 6 hr. 10 min. (reference value at 23°C) Charges the battery regardless of whether the instrument is on or off
Backup battery life	Clock and settings (Lithium battery), Approx. 10 years @23°C (@73.4°F)
Dimensione	Approx. 180W(7.09") × 100H(3.94") × 48D (1.89") mm (without PW9002)
Dimensions	Approx. 180W(7.09") × 100H(3.94") × 68D (2.68") mm (with PW9002)
Mass	Approx. 540g (19 oz) (without PW9002), Approx. 820g (28.9 oz) (with PW9002)
Accessories	SAFETY VOLTAGE SENSOR PW9020 (1 set) AC ADAPTER Z1008 (1) USB cable (1) Instruction manual (1) Measurement guide (1) Color spiral tubes (1 set : red, yellow, blue/four each) Spiral tubes (10)

POWER LOGGER VIEWER SF1001 Specifications

Functions			Preview and print content shown on the trend graph, report, harmonic graph and settings displays.	
	Display items Voltage, current, active power, reactive power, apparent power,	Print function	Comment entry (Text comments can be entered in any printout)	
	power factor, frequency, integrated active power, integrated reactive power, demand volume, demand value, voltage		Header/Footer settings: Sets the header and footer for each printout	
Trend graph display function	disequilibrium factor		Printing support Any color or monochrome printing supported by the operating system	
	Stacked bar graph display : Up to 16 types of data series			
	Cursor measurements		Print (static) contents over a specific time period	
	Measurement values can be displayed by the cursor	Report printing	Output contents: Standard or selected output items	
	Displayed items are the same as for the trend Graph Display		Available output items: Trend graph, summary, daily report, waveform	
			Report creation method: Standard print	
0	Daily, weekly and monthly report displays: Accumulates and displays daily, weekly and monthly reports over specified period.		Report output settings: Save/load report output settings	
Summary display function	Load factor calculation display: Calculates and displays load factor and demand factor results with daily, weekly and monthly reports	General Specifications		
	Time span aggregation: Aggregates data into up to four	Supported models	PW3365-20 / PW3360-20 / PW3360-21	
			LR5000 series ; Data previously loaded by the LR5000 Utility (.hrp2 format) using a PC	
	specified time spans	Supported	Windows 8 (32/64bit)	
Waveform display			Windows 7 SP1 or later (32/64bit)	
Copy function			Windows Vista SP2 or later (32bit) Windows XP SP3 or later (32bit)	

Current CLAMP

				Insulated conductor	Insulated Conductor
CLAMP ON SENSOR	CLAMP ON SENSOR 9660	CLAMP ON SENSOR 9661	CLAMP ON SENSOR 9669	CLAMP ON SENSOR 9695-02	CLAMP ON SENSOR 9695-03
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 conducto φ15mm (0.59")	r diameter φ15mm (0.59")	φ46mm (0.81")	φ55mm (2.17") 80 (3.15")×20 (0.79")mm	φ15mm (0.59")	φ15mm (0.59")
Primary current rating 5A AC	100A AC	500A AC	1000AAC	50AAC	100A AC
Accuracy Amplitude (4 ±0.3% rdg.±0.02% f.s. Within ±2°	5 to 66 Hz) / Phase (45 Hz ±0.3% rdg.±0.02% f.s. Within ±1°	to 5 kHz) ±0.3% rdg.±0.01% f.s. Within ±0.5°	±1.0% rdg.±0.01% f.s. Within ±1°	±0.3% rdg.±0.02% f.s. Within ±2°	±0.3% rdg.±0.02% f.s. Within ±1°
Frequency characterist Within ±1.0%	tic 40Hz to 5kHz Within $\pm 1.0\%$	Within ±1.0%	Within ±2.0%	Within ±1.0%	Within ±1.0%
Effect of external mac	netic field with a magnetic	field of 400 A/m AC			
Equivalent to 0.1 A or less	Equivalent to 0.1 A or less	Equivalent to 0.1 A or less	Equivalent to 1 A or less	Equivalent to 0.1 A or less	Equivalent to 0.1 A or less
Effect of conductor po					
Within ±0.5%	Within ±0.5%	Within ±0.5%	Within ±1.5%	Within ±0.5%	Within ±0.5%
Maximum rated voltage CAT III 300V rms	ge to earth CAT III 300V rms	CAT III 600V rms	CAT III 600V rms	CAT III 300V rms	CAT III 300V rms
Maximum input 45-66F 50A continuous	Hz 130A continuous	550A continuous	1000A continuous	60A continuous	130A continuous
Dimensions / Mass					
46W × 135H × 21D mm/230g (1.81") × (5.31") × (0.83") / (8.1 oz)	46W × 135H × 21D mm/230g (1.81") × (5.31") × (0.83") / (8.1 oz)	77W × 151H × 42D mm / 380g (3.03") × (5.94") × (1.65") / (13.4 oz)	99.5W×188H×42D mm/ 590g (3.92")×(7.40")×(1.65") / (20.8 oz)	50.5W×58H×18.7Dmm / 50g (2.28")×(2.28")× (0.74") / (1.8 oz)	50.5W×58H×18.7Dmm / 50g (2.28")×(2.28")×(0.74") / (1.8 oz

Measurable conductor diameter Primary current rating

Frequency 40 - 5kHz

Maximum input 45-66Hz Dimensions / Mass

Effect of external magnetic field Effect of conductor position Maximum rated voltage to earth

Accuracy

Notes



CT9667-01 CT9667-02 AC FLEXIBLE CURRENT SENSOR

Cord length : Sensor - circuit: 2 m (6.56ft) , Circuit - connector: 1 m (3.28ft)

CT9667-03

Measurable conductor diameter	CT9667-01 : φ100mm, CT9667-02 : φ180mm CT9667-03 : φ254mm				
Primary current rating	AC500A/ AC5000A (Switchable)				
Accuracy 45-66Hz	$\pm 2.0\%$ rdg \pm 0.3% f.s. / Within $\pm 1^\circ$				
Frequency 10-20kHz	Within ± 3 dB				
Effect of external magnetic field	1.5% / f.s. or less				
Effect of conductor position	Within ± 3%				
Maximum rated voltage to earth	CAT III 1000V rms / CAT IV 600V rms				
Maximum input 45-66Hz	10000A continuous				
Dimensions / Mass	Circuit box: 35W×120.5H×34D CT9667-01, -02 : 280g, CT9667-03 : 470g				
Power supply	LR06 alkaline battery × 2 or AC ADAPTER 9445-02/9445-03 (optional)				



CLAMP ON LEAK SENSOR 9657-10 Leakage Current Measurement Only Cord length : 3 m (9.84ft)

φ40m	m
AC10	A*
±1.0% r	dg $\pm 0.05\%$ f.s. / Within $\pm 3^{\circ}$
Withi	n ± 5%
7.5mA	A max.
Withi	n ±0.1%
CAT II	I 300V rms
30A c	ontinuous
74W×	145H × 42D / 380g
Not used	for power measurements
*Maxim PW3365-	um AC measurement range with 20 is 5A



CLAMP ON LEAK SENSOR 9675 Leakage Current Measurement Only Cord length : 3 m (9.84ft)

φ30mm
AC10A*
$\pm 1.0\%$ rdg $\pm 0.05\%$ f.s. / Within $\pm 5^\circ$
Within $\pm 5\%$
7.5mA max.
Within ±0.1%
CAT III 300V rms
10A continuous
60W× 112.5H × 23.6D / 160g
Not used for power measurements

*Maximum AC measurement range with PW3365-20 is 5A

Measurement Range Configurations

	ON SENS	SOR 9694	/ 9695	-02 *					
Voltage Connection Current									
Voltage	Connection	500.00mA	1.0000A	5.	0000A	10.	000A	50.000A	
	1P2W	200.00W	400.00W	/ 2.0)000kW	4.00	000kW	20.000kW	
400.0V	1P3W 1P3W1U 3P3W2M 3P3W3M	400.00W	800.00W	/ 4.0)000kW	8.00	000kW	40.000kW	
	3P4W	600.00W	1.2000kV	V 6.C)000kW	12.0	000kW	60.000kW	
CLAMF	ON SENS	SOR 9660	/ 9695-0	3 / 96	61* ²				
				urrent				9661only	
Voltage	Connection	5.0000A	10.000A		0.000A	100	A00.0	500.00A	
	1P2W	2.0000kW	4.0000kV	V 20	.000kW	40.0)00kW	200.00kW	
	1P3W								
400.0V	1P3W1U 3P3W2M 3P3W3M	4.0000kW	8.0000kV	V 40	.000kW	80.0	000kW	400.00kW	
	3P4W	6.0000kW	12.000kV	V 60	.000kW	120	.00kW	600.00kW	
CLAMF	ON SENS	SOR <u>9669</u>							
				С	urrent				
Voltage	Connection	100.00	A	20	A00.00		1.0000kA		
	1P2W	40.000kW		80.000kW			400.00kW		
	1P3W	80.000kW					800.00kW		
400.0V	1P3W1U 3P3W2M 3P3W3M			160	160.00kW				
	3P4W	120.00	kW	240	0.00kW		1.2	WM000	
AC FL	EXIBLE CL	IRRENT S	ENSOR	СТ96	67-01	-02	-03 (5	kA)	
			LINCOIT		urrent	02,	00 (0		
Voltage	Connection	onnection 500.00A		1.0000kA			5 (0000kA	
	1P2W	200.00			0.00kW			2.0000MW	
400.0V	1P3W 1P3W1U 3P3W2M 3P3W3M		400.00kW		800.00kW		4.0000MW		
	3P4W	600.00	kW	1.2	000MW		6.0	WM0000	
AC FLE	EXIBLE CL	JRRE <u>NT S</u>	ENSOR	CT <u>96</u>	67- <u>01.</u>	-0 <u>2,</u>	-03 (5	500A)	
					urrent				
Voltage	Connection	50.00	A		A00.00		50	A00.00	
	1P2W	20.000	kW		.000kW		20	0.00kW	
400.0V	1P3W 1P3W1U 3P3W2M	40.000	40.000kW		80.000kW		400.00kW		
	3P3W3M								

Range 50.000mA / 100.00mA / 500.00mA / 1.0000A / 5.0000A

Combined Accuracy PW3365-20 + PW9020 + clamp sensors

Range		9694	9695-02				
50.000A		-	±2.3% rdg. ±0.32% f.s.				
10.000A		-	±2.3% rdg. ±0.4% f.s.				
5.0000A	±2.3%	% rdg. ±0.32% f.s.	±2.3% rdg. ±0.5% f.s.				
1.0000A	±2.3%	% rdg. ±0.4% f.s.	±2.3% rdg. ±1.3% f.s.				
500.00mA		% rdg. ±0.5% f.s.	±2.3% rdg. ±2.3% f.s.				
Range	9	660, 9695-03	9661				
500.00A		-	±2.3% rdg. ±0.31% f.s.				
100.00A		% rdg. ±0.32% f.s.	±2.3% rdg. ±0.35% f.s.				
50.000A		% rdg. ±0.34% f.s.	±2.3% rdg. ±0.4% f.s.				
10.000A		% rdg. ±0.5% f.s.	±2.3% rdg. ±0.8% f.s.				
5.0000A	±2.3%	% rdg. ±0.7% f.s.	±2.3% rdg. ±1.3% f.s.				
Range		99	69				
1.0000kA			±0.31% f.s.				
200.00A		0	±0.35% f.s.				
100.00A		±3% lug.	±0.4% f.s.				
Range	CT9667-0	1, -02, -03 5.000kA range	CT9667-01, -02, -03 500A range				
5.0000kA		6 rdg. ±0.6% f.s.	_				
1.0000kA		6 rdg. ±1.8% f.s.	_				
500.00A		6 rdg. ±3.3% f.s.	±4% rdg. ±0.6% f.s.				
100.00A		-	±4% rdg. ±1.8% f.s.				
50.000A		-	±4% rdg. ±3.3% f.s.				
Conditions of guaranteed a		After 30 minute warm-up, with 50/60 Hz sine wave input voltage to earth 400V or less					
Temperature and for guaranteed a		$23^{\circ}C \pm 5^{\circ}C (73 \pm 9^{\circ}F)$, 80%RH or less (applies to all specifications unless otherwise noted)					
Display area of guaranteed a	accuracy	Effective measurement range					
Period of guarantee	ed acuracy	Accuracy guaranteed for 1 year Post-adjustment accuracy guaranteed for 6 months					
Real-time clock	accuracy	Within ±0.3 sec/day (with power on, within specified operating temperature and humidity ranges)					
Temperature cha		Within ±0.1% f.s./ °C (except 23 ±5°C)					
Effect of exter magnetic field		Within ±1.5% f.s. (in a magnetic field of 400 A/m rms AC, 50/60 Hz)					
Effect of radiated, radio-frequency, electromagnetic field		Within ±5% f.s. for voltage and active power at 10 V/m					
Apparent power		± 1 dgt. for the calculation obtained from each measurement value					
Reactive power		Fundamental waveform calculations ±2.0% rdg. ±3.0% f.s. + clamp-on sensor accuracy (w/power factor = 1)					
		Rms calculations From each measurement applied to calculation ±1 dgt.					
Energy		Active and reactive power measurement accuracies ± 1 dgt.					
		From each measurement applied to calculation ± 1 dgt.					
Frequency		±0.5% rdg. (with 90 to 5					
Demand valu	е	Active and reactive power measurement accuracies ± 1 dgt.					
Demand qua	ntity	Active and reactive power measurement accuracies ± 1 dgt.					
			y is from 500 mA to 5 A,				

and for the 9695-02, from 500 mA to 50 A.

 $^{\ast 2}$ 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.

Current Display and Effective Measurement Ranges

typical

	Panga	Total display range	Effective measurement range		Total display range	Effective peak
	Range	Minimum	Minimum	Maximum	Maximum	Range
Voltage	400V Range	5.0V	90.0V	520.0V	520.0V	±750Vpeak
Current	5A Range	0.0200A	0.2500A	5.5000A	6.5000A	±20Apeak
	10A Range	0.040A	0.500A	11.000A	13.000A	±40Apeak
	50A Range	0.200A	2.500A	55.000A	65.000A	±200Apeak
	100A Range	0.40A	5.00A	110.00A	130.00A	±400Apeak
	500A Range	2.00A	25.00A	550.00A	650.00A	±1000Apeak

CLAMP ON POWER LOGGER

Order Code: PW3365-20 (English model)

Accessories

SAFETY VOLTAGE SENSOR PW9020 (1 set) Instruction manual (1) AC ADAPTER Z1008 (1) USB cable (1)

Measurement guide (1) Color spiral tubes (1 set : red, yellow, blue/four each) Spiral tubes (10)



Clamp On Power Logger PW3365-20 by itself does not support current and power measurements. Current and power measurements require clamp on sensors, sold separately. Use only HIOKI SD cards guaranteed to work for saving measurement data (options, sold separately).

Options

CLAMP ON SE	ENSOR (for I	CLAMP ON ADAPTER 9290-10			
CLAMP ON SENSOR	9694	(AC5A)	Primary sid		
CLAMP ON SENSOR	9660	(AC100A)	1000A		
CLAMP ON SENSOR	9661	(AC500A)			
CLAMP ON SENSOR	9669	(AC1000A)			
AC FLEXIBLE CURRENT SENSOR	CT9667-01	(AC500A/ 5000A)			
AC FLEXIBLE CURRENT SENSOR	CT9667-02	2 (AC500A/ 5000A)	• 1		
AC FLEXIBLE CURRENT SENSOR	CT9667-03	(AC500A/ 5000A)			
CLAMP ON SENSOR *	9695-02	(AC50A)			
CLAMP ON SENSOR *	9695-03	(AC100A)	CAT III 600V	Secondary side	
CONNECTION CORD	9219	(for connection to 9695-02, 9695-03)	Cord length: 3m (9.84 ft)	100A	
* When purchasing the 9695-02 and		ecommend also purchasing		0	
the separately sold 9219 Connection Cord.			Measurable conductor diameter		
CLAMP ON LEAK S	SENSOR (fo	φ55 mm (2.17in)			
CLAMP ON LEAK SENSOR	0657 10	Bus bar : 80 mm (3.46in) 5 20 mm (0.79 in)			

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



MAX. 1500A AC (continuous: 1000A)



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All information correct as of June 19, 2015. All specifications are subject to change without notice.