AC CLAMP POWER METER CM3286-50 HIOKI

Quickly check current, voltage, power, and power factor

Broad measurement ranges

Current: 60 mA to 600 A Active power: 5W to 360 kW

Fast response

EG

Shorten test times by identifying all of the necessary data on a single screen Automatically transfer data with Bluetooth wireless technology



CE



When Z3210 is installed





Power facto

COS



600A CAT II 600V 3

HOLD

"0.999

0.557 ww

2000, 3285

L1L2L3

3PW Phase Detect

*Harmonic can be displayed with the GENNECT Cross dedicated application software.

armonics

Harmonic

Peak

Frequency

Broad measurement range 60 mA (5 W) to 600 A (360 kW)

- Accurately measure power from 5 W at a current as low as 60 mA to 360 kW at a maximum of 600 A (single-phase power measurement).
- In addition to current, voltage, and power, measure simple integral power consumption and phase sequence.
- Obtain accurate readings with true RMS measurement.

Measurement line

Measure power in single-phase to balanced three-phase circuits (with estimated values) (1-phase/ 2-wire, 1-phase/ 3-wire, balanced 3-phase/ 3-wire, and balanced 3-phase/ 4-wire). *The instrument generates estimated power values when measuring 3-phase circuits.

Easily check power supply fluctuations

Since it can display maximum (MAX), minimum (MIN), and average (AVG) values, the CM3286 is useful when you need to ascertain the magnitude of fluctuations.

And since it can also measure crest (PEAK) values, you can use it to check fluctuations at the crest value level.

Quickly check for unbalance

The CM3286 can measure unbalanced power in a 3-phase/ 3-wire circuit by measuring the single-phase power twice and then automatically adding the results. (The instrument can also measure 3-phase/4-wire circuits in three separate measurements.)







Support for large-diameter, high-current measurement

The CM3286 can be used with the optional Clamp On Adapter 9290-10 to measure busbars of up to 55 mm in diameter or 80×20 mm. Measure high currents of up to 1000 A AC (or 1500 A for up to 5 min.).



Choose from an extensive selection of probe tips

Select the type of probe that best suits your measurement location, letting you measure in areas that can't be reached with conventional probes and busbars that you wish to clamp between probes.

*Probe tips: Sold separately



Functionality and performance that enable a broad range of measurements

White backlight



A white backlight makes the measured values stand out, even in dim locations. Owing to wide viewing angle display, high quality screen

display, high quality screen lets you read measurements from any angle.

Easily operate with one hand



Turn the rotary switch while holding the instrument in the same hand.

Grooves on the switch make it easy to rotate even while wearing work gloves.

CAT IV 600 V



The CM3286 can safely measure service wires with a wireto-ground voltage of up to 600 V as well as wires found in distribution panels.

The clamp meters also feature a safe design that can withstand a transient overvoltage of 8 kV in case of a lightning strike.

-25°C to + 65°C



The CM3286 can be used in freezing temperatures or on the hottest summer days

Example: Single-phase AC measurement (1P2W)



Powerful features and functions deliver fast and efficient testing

Easy-to-see display Related parameters shown on the display at once

Related parameters and connection locations shown on the display at once (Main parameterx1, Sub-parameterx3)



Simple wiring guide

The CM3286 provides a simple on-screen guide indicating how to connect it to a 3-phase circuit.

Example: 3-phase AC measurement (3P3W, balanced)



AUTO HOLD

The clamp meters beep when the measured value stabilizes and then automatically hold the display value. This is useful when using the instrument in locations where it is difficult to see the display or press the hold button.



Double warnings with sound and light

When the clamp power meter detects excessively over current or voltage input during a continuity check, it alerts you with a red backlight and beeping tone in order to help prevent accidents.



Quick and easy data recording Using Bluetooth[®] communication with the Z3210

🚯 Bluetooth°



WIRELESS ADAPTER Z3210 (Option)



Attach to enable Bluetooth® wireless technology



Transport to the Excel® file

Open an Excel® file and select a cell. The measured value being held on the instrument's display will be transferred to the computer and entered into the selected cell.





Transport to GENNECT Cross

GENNECT Cross, a free app designed specifically for use with Hioki measuring instruments, lets you check and manage measurement results and create reports. The software provides a range of functionality that helps manage data in the field, including photographing measurement sites, placing measurement results on photographs, and saving hand written memos.

Learn more

GENNECT Cross







9 11 13 15 17 19 21 23 25 27 29

10 S: D

1: 5.181 A 0.153 A 2: 3.252 4 3: 4: 0.095 A

8

GENNECT Cross can measure the harmonic level. content percentage, and total harmonic distortion of voltage or current for the 1st through 30th orders.

Measurement line	Single-phase, Three-phase (should be balanced with no distortion)	Bluetooth®	Available		
Measurement	Voltage, Current, Voltage/ current peak, Active/ reactive/ ap- parent power, Power factor, Phase angle*1, Frequency, Simple Active Energy Consumption (Single-phase), Voltage/ current harmonic levels	communication	When WIRELESS ADAPTER Z3210 (Option) is attached		
		Standards	Safety: EN61010, EMC: EN61326		
		Power supply	LR03 Alkaline battery ×2		
	[Measurement range] 80.0 V to 600.0 V, Single range, Basic accuracy 45 Hz - 66 Hz: ±0.7% rdg. ±3 dgt. (Frequency characteristics: 45 Hz to 1 kHz, True RMS)	Continuous oper- ating time	Approx. 25 hours (Backlight OFF, Bluetooth® OFF) Approx. 18 hours (Backlight OFF, Bluetooth® ON)		
		Core jaw diameter	φ 46 mm (1.81 in)		
AC current	[Measurement range] 0.060 A to 600.0 A, 3 range, Basic accuracy 45 Hz - 66 Hz: ±1.3% rdg. ±3 dgt.	Dimensions and Mass	65 mm (2.56in) W × 241 mm (9.49in) H × 35 mm (1.38in) D, 450 g (15.9 oz)		
	(Frequency characteristics: 45 Hz to 1 kHz, True RMS)	 *1) Phase angle obtained from zero cross of current / voltage. *2) Harmonic can be displayed by dedicated application software (Gennect Cross). WRELESS AD.PTER 23210 (Option) is required *3) While in storage, or when measuring an insulated conductor. Do not use when wet. *The indicated value for three-phase power is based on the assumption of a balanced condition and sine wave without distortion at 50/60 Hz. Accurate measurement is not possible on an unbalanced or inverter controlled three-phase line. Also, if the phase (zero cross) cannot be detected due to significant waveform distortion, it cannot be measured nor displayed. *The power factor / phase angle are values obtained from the zero cross of the current and voltage. If the phase (zero cross) cannot be detected due to significant waveform displayed. 			
Power	[Single phase] 0.005 kW to 360.0 kW Basic accuracy: ±2.0% rdg. ±7 dgt. (50/ 60 Hz, Power factor=1)				
	[Balanced three-phase 3-wire] 0.020 kW to 623.5 kW Basic accuracy: ±3.0% rdg. ±10 dgt. (50/ 60 Hz, Power factor=1) [Balanced three-phase 4-wire] 0.040 kW to 1080 kW Basic accuracy: ±2.0% rdg. ±3 dgt. (50/ 60 Hz, Power factor=1)				
Harmonic*2	Voltage/ current harmonic levels up to 30th, Content factor, Total harmonic distortion ratio				
Other functions	[Phase angle *1] lead -180.0° to lag 179.9°, [Power factor] -1.000 to 1.000 [Frequency] 45.0 Hz to 999.9 Hz, PEAK, phase detection, max/min/avg value display, auto hold, electric meter comparison, unbalanced 3-phase power estimate display, etc.				
Maximum rated voltage to earth Maximum rated voltage to terminal	600 V AC (Measurement category IV) 1000 V AC (Measurement category III)				
Crest factor	6 A/ 60 A range 3 or less, 600 A/ 600 V range 1.6 or less				
Operating and storage temperature and humidity ranges					
Dustproof and waterproof*3	Grip: IP50				

Order code/ Options

Model No. (Order Code)						
CM3286-50			HIOL	a and a		
CM3286-90	Includes WIREL	ESS ADAPTER Z3210				
Accessories • CONNECTION C • CARRYING CASI • LR03 Alkaline ba • Instruction manua	E C0203 ×1 ttery ×2	L9257 C0203	WIRELESS ADAF Model CM3286-90 WIRELESS ADAP			
Options (Test le	ads)	Options (for L9257, I	4930, L4931) Tip options (F	Red/ Black: 1 each). Attaches to the	e tip of the banana plug cable.	
CABLE SET C L4930 L (1.2m) (TEST PIN SET L4938	ALLIGATOR CLIP SET L4935	BUS BAR CLIP SET L4936	MAGNETIC ADAPTER SET L4937	
	CABLE SET L4931 (1.5m, Expands the length of the L4930)	BREAKER PIN SET L4939	TEST PIN SET L4932	GRABBER CLIP L9243	ADAPTER 9804	
Options (Clamp	adapter)	Options (Test leads)				
CLAMP ON ADAF 9290-10 (1000 A AC, φ55 mn CT ratio of 10:1)		TEST LEAD L9207-10	TEST LEAD L9300			
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