



CLAMP METERS



Remarkable Ease of Use New "Slim Jaw" Design

Innovative slim jaw resolves worksite issues such as crowded wiring to deliver safe, accurate and high-performance testing.

CM4375-50

Traditional design





Easily Clamp Within Crowded Cables with New Slim Jaw Design



CM4375-50

34 mm=1.34 in



CM4141-50

55 mm=2.17 in



CM3289

33 mm=1.30 in



CM3281 CM3291

46 mm=1.81 in



CM4001

24 mm=0.94 in

Safe, Durable, Reliable

-25°C to 65°C operating temperature*1



CM4000 Series can be used in freezing temperatures or on the hottest summer days.

CAT IV 600V*1



Safely measure embedded cables and electric panels with a maximum rated voltage to earth of 600V

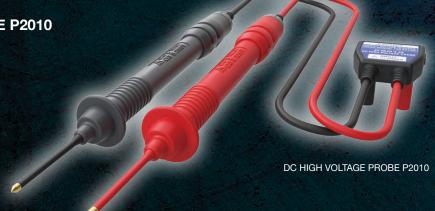
Dustproof and waterproof performance*2



International Protection Code: IP54 (while in storage, or when measuring the current in an insulated conductor). Measurement functionality is maintained despite exposure to sand or dust as well as water

NEW

DC HIGH VOLTAGE PROBE P2010 for CAT III 2000 V*3



Safe Inspection of Solar Installations with High Voltage



Solar installations (also known as photovoltaic or PV installations) are becoming increasingly high-voltage in order to reduce costs and improve the efficiency of power generation systems. As a result, it is important to select measuring instruments that support higher voltage measurement to protect the safety of inspection workers. The P2010 enables high voltage measurement up to CAT III 2000 V by simply connecting to a compatible Hioki clamp meter or digital multimeter.

Why is CAT III 2000 V capability necessary?



According to the standards for Photovoltaic (PV) module safety qualification (IEC 61730-1), PV modules are treated as the overvoltage category III, and a measuring instrument in the measurement category III is required. Using instruments that can accommodate the appropriate measurement category serves to protect workers and equipment from serious accidents such as electric shock and burnout. Currently, adoption of 1500 V solar installation is growing, but instruments that can accommodate even higher voltages will be necessary in the future as larger and even more efficient systems enter into use. Hioki developed the P2010 to support CAT III 2000 V measurement in response to the near-term prospect of such applications.

*1 Supported models : CM4371-50, CM4373-50, CM4375-50, CM4141-50, CM3286-50 *2 Supported models : CM4371-50, CM4373-50, CM4375-50 *3 Supported models : CM4371-50, CM4373-50, CM4375-50, CM4141-50

P2010 Specifications

Maximum input voltage	2000 V DC (max. rated voltage between INPUT H-INPUT) *Not available for AC voltage measurement
Maximum rated line-to- ground voltage	2000 V (measurement category III), Anticipated transient overvoltage: 15000 V (measurement category IV), Anticipated transient overvoltage: 12000 V
Input resistance	$20~\text{M}\Omega$ ±5.0% (between INPUT H and INPUT L, when OUTPUT terminal is open)
Output ratio	1/10 or 1/11 (Depends on the compatible product)
Overload protection	2200 V DC/2200 V AC (applied for 1 minute) (between INPUT H and INPUT L) 600 V DC/600 V AC (applied for 1 minute) (between OUTPUT H and OUTPUT L)
OUTPUT terminal	4 mm banana terminal
Operating environment	Indoor use, pollution degree 2, altitude up to 2000 m (6562 ft.)
Operating temperature and humidity range	Temperature: -25°C to 65°C (-13°F to 149°F) Humidity: -25°C to 40°C (-13°F to 104°F): 80% RH or less (non-condensing) 40°C to 65°C (104°F to 149°F): Linearly reduces from 80% RH or less at 40°C (104°F) to 25% RH or less at 65°C (149°F) (non-condensing)
Storage temperature and humidity range	-30°C to 70°C (-22°F to 158°F) 90% RH or less (non-condensing)
Standards	EN 61010
Product warranty period	3 years (probe body and cable part are not covered by warranty)
Included accessories	Instruction Manual ×1, Operating Precautions ×1

DC High Voltage Probe P2010

Compatible models with DC HIGH V PROBE mode

(DC HIGH V PROBE mode: conversion display in terms of partial pressure ratio)



CM4371-50



CM4373-50



CM4375-50



CM4141-50

So much more than just wireless

Wireless connectivity leading to versatility

Using Bluetooth® communication with the Z3210¹¹

Install the Wireless Adapter Z3210 to enable Bluetooth® communications. With the Z3210, you can transfer data directly to an Excel® file and pair the instrument with GENNECT Cross.











Transport to GENNECT Cross

Attach to enable Bluetooth® wireless technology

Pair clamp meters built in with Bluetooth(R) wireless technology with the free GENNECT Cross mobile app to upload data to your mobile device for further data management, processing and reporting.

Manage measurement data using GENNECT Cross²



- Save data and create reports right on the App
 Share data via cloud services or E-mail



Transfer data to



Take a picture of the test location and map measured values on it



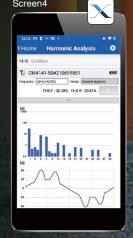
Verify current waveforms on your mobile device



Visualize intermittent GFCI and RCD trips Review trip times and maximum current values

Get IT ON Google Play

App Store



Harmonic analysis for troubleshooting

GENNECT

Cross

For more details

- *1 Supported models: CM4371-50, CM4373-50, CM4375-50, CM4141-50, CM3286-50, CM4001, CM4002, CM4003 *2 Supported models: When the Z3210 is installed on a compatible model described above*1

Downloading GENNECT Cross

Data can be downloaded to tablets and smartphones using Hioki's dedicated

apps available from the Google Play or App Store.
Search for "HIOKI" and download the "GENNECT Cross" app.

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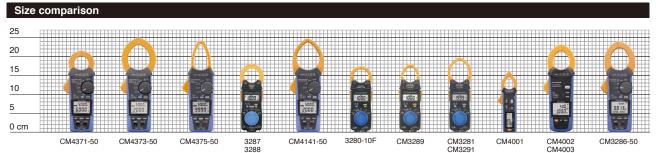
 1 The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth StG, Inc., and any use of such marks by HIOKI E.E. CORPORATION is under license.

 1 For the latest information about countries and regions where wireless operation is currently supported, please visit the Hioki website.



Lineup

Measurem	ent type			AC / DC Current		
Model		CM4371-50	CM4373-50	CM4375-50	3287	3288 3288-20
Appearance	3	5000	2000		1000.	1000
Core jaw dia	ameter	ф33 mm (1.30 in)	φ55 mm (2.17 in)	ф34 mm (1.34 in)	ф35 mm (1.38 in)	ф35 mm (1.38 in)
AC measureme	ent system	True RMS	True RMS	True RMS	True RMS	MEAN Value True RMS (-20)
Frequency char	racteristics	10 Hz to 1 kHz	10 Hz to 1 kHz	10 Hz to 1 kHz	10 Hz to 1 kHz	10 Hz to 500 Hz
AC curre (Resoluti Guaranteed a		600 A (0.01) 1 A to 600 A	2000 A (0.1) 1 A to 2000 A	1000 A (0.1) 1 A to 999.9 A	100 A (0.01) Full display range' ⁵	1000 A (0.1) Full display range' ⁵
DC curre (Resoluti		600 A (0.01)	2000 A (0.1)	999.9 A (0.1)	100 A (0.01)	1000 A (0.1)
AC Volta	ige	1000 V	1000 V	1000 V	600 V	600 V
DC Volta DOWer Resistan Tempera Electrostat	age	2000 V*1	2000 V*1	2000 V*1	600 V	600 V
Power		1200 kVA (DC)*1	4000 kVA (DC)*1	2000 kVA (DC)*1	N/A	N/A
Resistan	nce	6 ΜΩ	6 ΜΩ	6 ΜΩ	42 MΩ	42 MΩ
Tempera	ture	-40°C to 400°C	-40°C to 400°C	-40°C to 400°C	N/A	N/A
Electrosta	tic capacity	✓	V	~	N/A	N/A
Frequen	су	999.9 Hz	999.9 Hz	999.9 Hz	N/A	N/A
Rush cui	rrent	✓	V	~	N/A	N/A
Continuity	y check	✓	V	~	V	~
Diode che	eck	✓	V	~	N/A	N/A
Non-Cont	act Voltage	✓	V	N/A	N/A	N/A
Low-pass filt	ter	V	V	~	N/A	N/A
Auto power	off	V	V	~	V	V
Auto range		V	V	~	V	V
Data hold		AUTO / MANUAL	AUTO / MANUAL	AUTO / MANUAL	MANUAL	MANUAL
Automatic AC/E	OC detection	V	V	V	N/A	N/A
MAX / MIN /	/AVG	V	V	~	N/A	N/A
Output		N/A	N/A	N/A	N/A	N/A
Bluetooth® com	nmunication	✓ (with Z3210)	✓ (with Z3210)	✓ (with Z3210)	N/A	N/A
Backlight		✓	V	V	N/A	N/A
Display refres	sh rate	5 times / s	5 times / s	5 times / s	2.5 times / s	2.5 times / s
Safety stand category	dard	CAT IV 600 V CAT III 1000 V	CAT IV 600 V CAT III 1000 V	CAT IV 600 V CAT III 1000 V	V: CAT III 300 V A: CAT III 600 V	V: CAT III 300 V A: CAT III 600 V
Safety stand category (wi		CAT IV 1000 V CAT III 2000 V	CAT IV 1000 V CAT III 2000 V	CAT IV 1000 V CAT III 2000 V	N/A	N/A
CE		V	V	~	V	V
Dustproof and	waterproof	IP20*2, IP54*3	IP20°2, IP54°3	IP20°2, IP54°3	N/A	N/A
		N/A	N/A	N/A	N/A	N/A
Drop proof				LR03 ×2	CR2032 ×1	CR2032 ×1
Power supple	ly	LR03 ×2 Alkaline	LR03 ×2 Alkaline	Alkaline	Coin type	Coin type



*1: Only when DC HIGH VOLTAGE PROBE P2010 is used *2: Voltage measurement in a completely dry condition. When jaw closes. *3: While in storage. *4: When measuring the current in an insulated conductor. Do not use when wet. *5: displayed 0 with below 0.06

M	easurement type			AC Current	t		Leakage	Current	AC Power
Mc	odel	CM4141-50	3280-10F	CM3289	CM3281	CM3291	CM4001	CM4002 CM4003	CM3286-50
Ap	pearance		1500	1000.	15551	15991		502	
Со	re jaw diameter	φ55 mm (2.17 in)	ф33 mm (1.30 in)	ф33 mm (1.30 in)	ф46 mm (1.81 in)	ф46 mm (1.81 in)	φ24 mm (0.94 in)	φ40 mm (1.57 in)	φ46 mm (1.81 in)
AC	measurement system	True RMS	MEAN Value	True RMS	MEAN Value	True RMS	True RMS	True RMS	True RMS
Fre	quency characteristics	45 Hz to 1 kHz	50 / 60 Hz	40 Hz to 1 kHz	50 / 60 Hz	40 Hz to 1 kHz	40 Hz to 1 kHz	15 Hz to 2 kHz	45 Hz to 1 kHz
	AC current (Resolution) Guaranteed accuracy range	2000 A (0.01) 1 A to 2000 A	1000 A (0.01) 4 A to 1000 A	1000 A (0.01) 4 A to 1000 A	2000 A (0.01) 4 A to 1999 A	2000 A (0.01) 4 A to 1999 A	600 A (0.01mA)) 0.6 mA to 600 A	200 A (0.001mA) 0.06 mA to 200 A	600 A (0.001) 0.06 A to 600 A
	DC current (Resolution)	N/A	N/A						
Me	AC Voltage	1000 V	600 V	600 V	600 V	600 V	N/A	N/A	600 V
asur	DC Voltage	2000 V*1	600 V	600 V	600 V	600 V	N/A	N/A	N/A
eme	Power	N/A	360 kW (AC)						
nt pa	Resistance	6 ΜΩ	42 MΩ	42 MΩ	42 MΩ	42 MΩ	N/A	N/A	N/A
rame	Temperature	-40°C to 400°C	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Measurement parameters	Electrostatic capacity	~	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Frequency	999.9 Hz	N/A	N/A	N/A	N/A	999.9 Hz	2000 Hz	999.9 Hz
	Rush current	~	N/A	N/A	N/A	N/A	V	~	N/A
	Continuity check	~	~	~	~	~	N/A	N/A	N/A
	Diode check	~	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Non-Contact Voltage	N/A	N/A						
Lo	w-pass filter	~	N/A	N/A	N/A	N/A	<i>'</i>		N/A
Au	to power off	~	~	~	~	~	v	~	~
Au	to range	~	~	~	~	~	V	~	~
Da	ta hold	AUTO / MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	AUTO / MANUAL	AUTO / MANUAL	AUTO / MANUAL
Aut	omatic AC/DC detection	✓ (Voltage only)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MA	AX / MIN / AVG	~	N/A	N/A	N/A	N/A	V	~	~
Οι	itput	N/A	N/A	N/A	N/A	N/A	N/A	✓ (CM4003 only)	N/A
Blue	etooth® communication	✔ (with Z3210)	N/A	N/A	N/A	N/A	✔ (with Z3210)	✓ (with Z3210)	✔ (with Z3210)
Ва	cklight	~	N/A	N/A	N/A	N/A	v	v	~
Dis	splay refresh rate	5 times / s	2.5 times / s	2.5 times / s	2.5 times / s	2.5 times / s	5 times / s	5 times / s	2 times / s
	fety standard tegory	CAT IV 600 V CAT III 1000 V	V: CAT III 300 V A: CAT IV 300 V	V: CAT III 300 V A: CAT IV 300 V	V: CAT III 300 V A: CAT IV 300 V	V: CAT III 300 V A: CAT IV 300 V	CAT III 300 V	CAT IV 300 V (CM4002) CAT III 600 V (CM4002) CAT III 300 V (CM4003)	CAT IV 600 V CAT III 1000 V
	fety standard tegory (with P2010)	CAT IV 1000 V CAT III 2000 V	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CE		~	~	~	~	~	V	~	V
Du	stproof and waterproof	IP50*3*4	IP40	N/A	N/A	N/A	N/A	IP40	IP20*2, IP50*3
Dr	op proof	N/A	~	~	~	~	N/A	N/A	N/A
Ро	wer supply	LR03 ×2 Alkaline	CR2032 ×1 Coin type	CR2032 ×1 Coin type	CR2032 ×1 Coin type	CR2032 ×1 Coin type	LR03 ×1 Alkaline	LR6 ×2 Alkaline	LR03 ×2 Alkaline
	mensions V × H × D)	65 × 247 × 35 mm 2.56 × 9.72 × 1.38 in	57 × 175 × 16 mm 2.24 × 6.89 × 0.63 in	57 × 181 × 16 mm 2.24 × 7.13 × 0.63 in	57 × 198 × 16 mm 2.24 × 7.80 × 0.63 in	57 × 198 × 16 mm 2.24 × 7.80 × 0.63 in	37 × 160 × 27 mm 1.46 × 6.30 × 1.06 in	64 × 233 × 36 mm 2.52 × 9.17 × 1.41 in	65 × 241 × 35 mm 2.56 × 9.49 × 1.38 in
We	eight	300 g / 10.6 oz	100 g / 3.5 oz	100 g / 3.5 oz	103 g / 3.6 oz	103 g / 3.6 oz	115 g / 4.1 oz	400 g / 14.1 oz	450 g / 15.9 oz
	low I 0200 toot le								

New L9300 test leads with integrated cap for greater convenience and safety







L9300 Video

L9300 3D view



Test leads L9300 now incorporate integrated caps. The design lets you change the measurement category simply by sliding the test lead's protective finger guard. As an added bonus, you no longer have to worry about losing caps!

AC/DC Current

AC/DC CLAMP METER CM4371-50, CM4373-50, CM4375-50

Product warranty for 3 years Accuracy guaranteed for 1 year





· Instruction manual



Instruction manual



DC HIGH VOLTAGE PROBE P2010 (Option) Available to mesure 2000 V DC

CLAMP ON AC/DC HITESTER 3287, 3288, 3288-20

Product warranty for 3 years Accuracy guaranteed for 1 year





	475 🕪 ३०६	HOLD	OFF RA	is NCV	₽	MIN	PEAK	FILTE	R AC/DC INRUS	H	
lo	odel	CM4371-50	CM4373 -50	CM4375-50							Basic accuracy
		· /	N/A	N/A	20.00 A/600.0 /	A (guaranteed	accuracy	range: 1	.00 A to 600.0 A)		±1.3% rdg ±0.08 A
	AC Current	N/A	~	N/A	600.0 A/2000 A	(guaranteed	accuracy r	ange: 1	.0 A to 2000 A)		±1.3% rdg ±0.3 A
		N/A	N/A	~	1000 A (guaran	teed accuracy	range: 1.0	0 A to 99	99.9 A)		±1.3% rdg ±0.3 A
		· ·	N/A	N/A	20.00 A/600.0 /	A (guaranteed	accuracy	range: ±	±1.00A to ±600.0 A)		±1.3% rdg ±0.08 A
	DC Current	N/A	~	N/A	600.0 A/2000 A	(guaranteed	accuracy r	ange: ±	1.0A to ±2000 A)		±1.3% rdg ±0.3 A
		N/A	N/A	V	1000 A (guaran	teed accuracy	range: ±1	.0 A to ±	±999.9 A)		±1.3% rdg ±0.3 A
		V	N/A	N/A	20.00 A/600.0	A (guaranteed	accuracy	range: 1	.00 A to 600.0 A)		±1.3% rdg ±0.13 A
	AC + DC Current	N/A	~	N/A	600.0 A/2000 A	(guaranteed	accuracy r	ange: 1	.0 A to 2000 A)		±1.3% rdg ±1.3 A
		N/A	N/A	~	1000 A (guaran	teed accuracy	range: 1.0	0 A to 99	99.9 A)		±1.3% rdg ±1.3 A
	AC Voltage	~	~	~	6.000 V/60.00 \	//600.0 V/100	0 V				±0.9% rdg ±0.003 V
	DC Voltage	V	~	~	600.0 mV/6.000	V/60.00 V/60	00.0 V/1000	0 V/2000) V ^{*2}		±0.5% rdg ±0.5 mV
- nete	AC + DC Voltage	~	V	V	6.000 V/60.00 \	//600.0 V/100	0 V				±1.0% rdg ±0.013 V
		~	N/A	N/A	0.0 VA to ±1200	.0 VA to ±1200 kVA*2				±2.0% rdg ±20 dgt	
	DC Power	N/A	~	N/A	0.000 kVA to ±4	1000 kVA*2					±2.0% rdg ±20 dgt
		N/A	N/A	~	0.000 kVA to ±2	000 kVA to ±2000 kVA*2			±2.0% rdg ±0.020 kVA		
	Resistance	V	~	~	600.0 Ω/6.000	600.0 Ω/6.000 kΩ/60.00 kΩ/600.0 kΩ/6.000 MΩ				±0.7% rdg ±0.5 Ω	
	Temperature	V	~	~	-40.0°C to 400.	0°C					±0.5% rdg ±3.0°C
	Electrostatic capacity	V	~	~	1.000 µF/10.00	μF/100.0 μF/1	1000 μF				±1.9% rdg ±0.005 μF
	Frequency	V	'	V	9.999 Hz/99.99	Hz/999.9 Hz					±0.1% rdg ±0.003 Hz
	Display refresh rate	5 times/s*3									
	Operating temperature	-25°C to 65°	C, 90% RH o	r less (non-con	ndensating)						
	Storage temperature	-30°C to 70°	C, 90% RH o	r less (non-con	ndensating)						
	Dustproof and waterproof	IP20 ^{*4} , IP54	*5	,							
	Power supply	Alkaline bat	tery LR03 ×2		-	Order code	CM4371	1-50	Order code CM4	371-90	
5	Continuous operating time	40 hours*6				Order code	CM4373	3-50	Order code CM4	373-90	Order code CM437
5	Dimensions	CM4371-50	: 65 × 215 × 3	5 mm (2.56 × 8	8.46 × 1.38 in)	Order code			Order code Cili		Order code
	(W×H×D)			5 mm (2.56 × 9 5 mm (2.56 × 9	9.84 × 1.38 in) 9.53 × 1.38 in)	Order code	CM4375	5-50	Order code CM4	375-90	Order code CM437
	Weight	CM4373-50	: 340 g (12 oz : 530 g (18.7 d	oz)					CM437x-90 include 137x-93 includes P2		

1. Excludes OW4575-50 2. Only when DO High	II VOLIAGET HODET 2010 is used 5. Exc	iluues electrostatic capacity, riequeri	cy, and temperature
*4: Voltage measurement in a completely dry cor	ndition. When jaw closes. *5: While in stora	ge. *6: With backlight and Bluetooth	communications turned OFF

CA		HOLD	OFF RM		PEAK FILTER ACTOC INRUSH		
Mo	odel	3287	3288	3288-20		Basic accuracy	
3	AC Current	~	N/A	N/A	10.00 A/100.0 A (Display range: 0A to 10.00 A/100.0 A)	±1.5% rdg ±5 dgt	
easu	AC Current	N/A	~	~	100.0 A/1000 A (Display range: 0A to 100.0 A/1000 A)	±1.5% rdg ±5 dgt	
rem	DC Current	~	N/A	N/A	10.00 A/100.0 A	±1.5% rdg ±5 dgt	
at F	DC Current	N/A	~	~	100.0 A/1000 A	±1.5% rdg ±5 dgt	
arai	AC Voltage	~	~	~	4.200 V/42.00 V/420.0 V/600 V	±2.3% rdg ±8 dgt	
nete	DC Voltage	V	~	V	420.0 mV/4.200 V/42.00 V/420.0 V/600 V	±1.3% rdg ±4 dgt	
Š	Resistance	~	~	~	420.0 Ω/4.200 kΩ/42.00 kΩ/420.0 kΩ/4.200 MΩ/42.00 MΩ	±2.0% rdg ±4 dgt	
	Display refresh rate Operating temperature		80% RH or le		<u> </u>		
Q	Storage temperature Dustproof and waterproof		C, 80% RH or	iess (non-con	idensating)	Order code 3287	
Power supply Coin type lithium battery CR2032 ×1						Order code 3287 Order code 3288	
	Dimensions(W × H × D) Weight		6 mm (2.24 x) (6.0 oz), 3288		0 g (5.3 oz)	Order code 3288-20	

AC Current

AC CLAMP METER CM4141-50

Product warranty for 3 years Accuracy guaranteed for 1 year



AC CLAMP METER 3280-10F, CM3289, CM3281, CM3291

Product warranty for 3 years Accuracy guaranteed for 1 year



· CARRYING CASE (models vary as shown on right) Coin type lithium battery CR2032×1

- Instruction manual

Leakage Current

AC LEAKAGE CLAMP METER CM4001, CM4002, CM4003

Product warranty for 3 years Accuracy guaranteed for 1 year

GENNECT Cross

Functions External output
 External power supply



GENNECT Cross

GENNECT Cross



CA		HOLD OFF RMS NCV	PEAK FILTER ACIDO INRUSH		
Mo	del	CM4141-50		Basic accuracy	
S	AC Current	V	60.00 A/600.0 A/2000 A (guaranteed accuracy range: 1.00A to 2000 A)	±1.5% rdg ±0.08 A	
Measu	AC Voltage	V	6.000 V/60.00 V/600.0 V/1000 V	±0.9% rdg ±0.003 V	
urei	DC Voltage	✓	600.0 mV/6.000 V/60.00 V/600.0 V/1000 V/2000 V*1	±0.5% rdg ±0.5 mV	
ner	AC + DC Voltage	✓	6.000 V/60.00 V/600.0 V/1000 V	±1.0% rdg ±0.013 V	
ρ	Resistance	✓	600.0 Ω/6.000 kΩ/60.00 kΩ/600.0 kΩ/6.000 MΩ	±0.7% rdg ±0.5 Ω	
aran	Temperature	✓	-40.0°C to 400.0°C	±0.5% rdg ±3.0°C	
nete	Electrostatic capacity	V	1.000 μF/10.00 μF/100.0 μF/1000 μF	±1.9% rdg ±0.005 μF	
S	Frequency	<i>V</i>	9.999 Hz/99.99 Hz/999.9 Hz	±0.1% rdg ±0.003 Hz	
			·		
	Display refresh rate	5 times/s*2			
	Operating temperature	-25°C to 65°C, 90% RH or less (non-cor	ndensating)		
	Storage temperature	-30°C to 70°C, 90% RH or less (non-cor	ndensating)		
Other	Dustproof and waterproof	IP50 ^{*3}		Order code (CM4141-50)	
her	Power supply Continuous operating time	Alkaline battery LR03 ×2 48 hours ^{*4}		Order code (CM4141-90)	
	Dimensions(W x H x D)	65 × 247 × 35 mm (2.56 × 9.72 × 1.38 ir	1)	_	
	Weight	300 g (10.6 oz)	Model CM4141-90 includes Z3210	as a set	

*1: Only when DC HIGH VOLTAGE PROBE P2010 is used *2: Excludes electrostatic capacity, frequency, and temperature
*3: While in storage, or when measuring resistance or current in an insulated conductor in a completely dry condition. Do not use when wet. *4 With backlight and Bluetooth® communications turned OFF

C		HOLD		NCV	♣	PEAK FILTER AC/DC INR	USH	
Me	odel	3280-10F	CM3289	CM3281 · CM3291				Basic accuracy
Meas	AC Current	~	~	N/A	42.00 A/420.0 A/	1000 A (guaranteed accuracy range: 4.00A to	1000 A)	±1.5% rdg ±5 dgt
asur	AO Guiteill	N/A	N/A	~	42.00 A/420.0 A/	2000 A (guaranteed accuracy range: 4.00A to	1999 A)	±1.5% rdg ±5 dgt
urement items	AC Voltage	~	V	~	4.200 V/42.00 V/4	420.0 V/600 V		±1.8% rdg ±7 dgt
iter	DC Voltage	~	V	V	420.0 mV/4.200 \	//42.00 V/420.0 V/600 V		±1.0% rdg ±3 dgt
S	Resistance	· ·	~	· ·	420.0 Ω/4.200 kΩ	Ω/42.00 kΩ/420.0 kΩ/4.200 MΩ/42.00 MΩ		±2.0% rdg ±4 dgt
Other	Display refresh rate Operating temperature Storage temperature Dustproof and waterproof Power supply Continuous operating time	-25°C to 65° IP40 (EN60: Coin type lit 3280-10F, C CM3289: 70 CM3291: 70	C, 80% RH o 529)*2 hium battery M3281: 120 hours	hours	densating)	3280F,CM3289,CM3291 are		Order code 3280-10F
	Dimensions (W×H×D)	CM3289: 57 CM3281, CM	× 181 × 16mn 13291: 57 × 1	,		compatible with the CT6280 AC Flexible Current Sensor Ф130mm (5.1 in), 4200 AAC		Order code
						Model 3280-70F includes 3280-10F AC Clamp Meter and CT6280 AC Flexible Sensor as a set		Order code CM3281

*1 Excludes 3280F *2 Excludes CM3289, CM3281, CM3291



M	odel	CM4001	CM4002+CM4003		Basic accuracy
Measurement items	AC Current	V	N/A	60.00 mA/600.0 mA/6.000A/60.00A/600.0A (guaranteed accuracy range: 0.60 mA to 600.0A)	±1.5% rdg ±0.05 mA
	AC Current	N/A	✓	6.000 mA/60.00 mA/600.0 mA/6.000A/60.00A/200.0A (guaranteed accuracy range: 0.060 mA to 200.0A)	±1.0% rdg ±0.005 mA
	Fraguenay	✓	N/A	999.9 Hz	±1.5% rdg ±0.1 Hz
	Frequency	N/A	V	999.9 Hz/2000 Hz	±0.1% rdg ±0.1 Hz

	Display refresh rate	5 times/s
	Operating temperature	-10°C to 65°C (non-condensating)
	Storage temperature	CM4001: -10°C to 65°C (non-condensating) CM4002, CM4003: -30°C to 70°C (non-condensating)
	Dustproof and waterproof	CM4002, CM4003: IP40
Other	Power supply Continuous operating time	CM4001: LR03 Alkaline battery × 1, 32 hours CM4002, CM4003: LR6 Alkaline battery × 2, 48 hours (LR6,without Z3210) CM4003: AC ADAPTER Z1013 (Option)
	Dimensions(W × H × D)	CM4001: 37 × 160 × 27 mm (1.46 × 6.30 × 1.06 in) CM4002, CM4003: 64 × 233 × 36 mm (2.52 × 9.17 × 1.41 in)
	Weight	CM4001: 115 g (4.1 oz) CM4002, CM4003: 400 g (14.1 oz)

Includes external output function	Order code
(CM4003 Only)	Order code
Pair with a recorder to capture instantaneous or current waveforms	Order code
RMS value output (RMS mode)	Order code
DC 600 mV/f.s.	Order code

CM4002 code CM4002-90 code CM4003 code Waveform output (WAVE mode) 115 CM4003-90 *Using CONNECTION CABLE L9097 (Accessories) Order code AC 600 mV/f.s. Z3210 Order code

CM4001

CM4001-90

Model CM4001-90, CM4002-90, CM4003-90 includes Z3210 as a set

AC Power



Product warranty for 3 years Accuracy guaranteed for 1 year

AC CLAMP POWER METER CM3286-50

φ46 mm=1.81 in





























CM3286-50

AC 600 A

True RMS

CAT IV 600 V CAT III 1000 V

Bluetooth

Please see www.hioki.com for list of supported regions







WIRELESS ADAPTER Z3210 (Option) Attach to enable Bluetooth® wireless technology

Order code

CM3286-50

Order code

CM3286-90

Model CM3286-90 includes Z3210 as a set

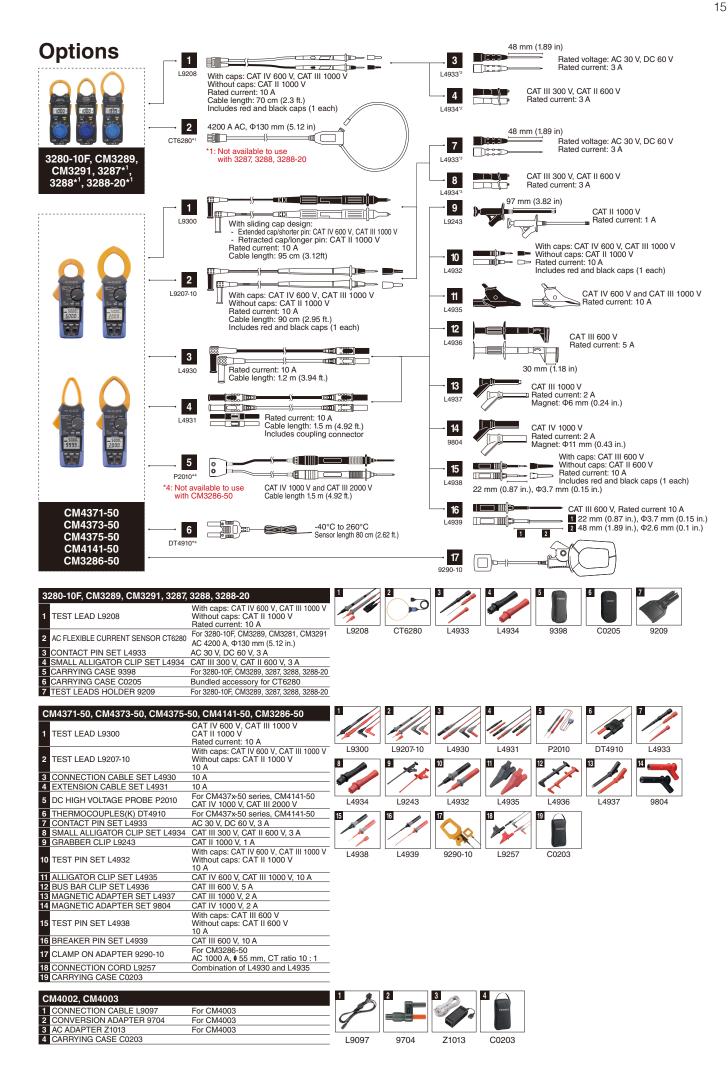


C0203

- · Instruction manual
- *1: Harmonics can be displayed using dedicated application software (GENNECT Cross)
 *2: Voltage measurement in a completely dry condition. When jaw closes.
 *3: While in storage.

L9257

		Single phase	3.600 kW/36.00 kW/360.0 kW Guaranteed accuracy range: 0.005 kW to 360.0 kW Basic accuracy: ±2.0% rdg ±7 dgt				
	Power (Active/ reactive/ apparent)	Balanced three-phase 3-wire	7.200 kW/72.00 kW/720.0 kW guaranteed accuracy range: 0.020 kW to 623.5 kW Basic accuracy: ±3.0% rdg ±10 dgt				
_	appa.om,	Balanced three-phase 4-wire	10.80 kW/108.0 kW/1080 kW guaranteed accuracy range: 0.040 kW to 1080 kW Basic accuracy: ±2.0% rdg ±3 dgt				
∥easu	AC Current		6.000 A/60.00 A/600.0 A Basic accuracy: ±1.0% rdg ±3 dgt				
remen	AC Voltage		600.0 V Basic accuracy: ±0.7% rdg ±3 dgt				
Measurement parameters	Power factor		Single-phase, Balanced three-phase 4-wire: [Regeneration] -1.000 to -0.001, [Consumption] 0.000 to 1.00 Balanced three-phase 3-wire: [Regeneration] -0.001, [Consumption] 0.000 to 1.000				
S	Phase angle		Single-phase, Balanced three-phase 4-wire: [lead] -180.0° to -0.1°, [lag] 0.0° to 179.9° Balanced three-phase 3-wire: [lead] -90.0° to -0.1°, [lag] 0.0° to 90.0°				
	Frequency		45.0 Hz to 999.9 Hz				
	Simple Active Consumption	Energy (Single-phase)	99.99 Wh/999.9 Wh/9.999 kWh/ 99.99 kWh/999.9 kWh/9999 kWh/				
	Harmonic ^{*1} (With Z3210)		Voltage or current harmonic levels up to 30th order, content factor, total harmonic distortion ratio				
	Display refre	sh rate	2 times/s				
	Operating ter	mperature	-25°C to 65°C, 80% RH or less (non-condensating)				
	Storage temp	perature	-25°C to 65°C, 80% RH or less (non-condensating)				
Other	Dustproof and	waterproof	IP20 ⁻² , IP50 ⁻³				
ब्	Power supply Continuous op	perating time	LR03 Alkaline battery ×2 25 hours				
	Dimensions (W×H×D)	65 × 241 × 35 mm (2.56 × 9.49 × 1.38 inch)				
	Weight		450 g (15.9 oz)				



About the Marks

CATS	Safety standard measurement categories*
E E	Drop proof Robust design capable of withstanding a drop from a height of 1 m onto concrete
३ थुइ	Backlight
OFF	Auto power OFF Automatically turns off after a certain time
HOLD	Display hold
RMS	True RMS True RMS measurement for accurate measurement of even distorted current waveforms
FILTER	Low-pass filter Cuts high frequency content to provide stable numerical values for measurement
AC/DC	AUTO AC/DC Automatically detects and measures AC and DC voltage
MIN/MAX	MAX/MIN/AVG value* Displays the maximum, minimum, and average of the displayed values
PEAK	Peak measurement* Displays the wave maximum and minimum peak values
	Flexible current sensor can be connected

^{*}For more detailed information, please refer to the next page.

~ V	AC voltage
V	DC voltage
≟V	DCV + ACV
Hz	Frequency
Ω	Resistance
<i>H</i>	Capacitance
°C	Temperature
~ A	ACA current
<i>A</i>	DCA current
£A	DCA + ACA
<i>≕VA</i>	DC Power
- R	Continuity check Buzzer sounds when continuity is detected
+	Diode check Displays voltage if in the correct direction, and OVER if in the reverse direction
NCV	Non-Contact Voltage Buzzer sounds when AC voltage is detected
INRUSH	Inrush (Rush current) Measures inrush current when power is turned on, etc.



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