



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 P2000 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 P2000 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 P2000 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



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.











Attach to enable Bluetooth® wireless technology

Transport to the Excel® file

Transport to GENNECT Cross

Manage measurement data using GENNECT Cross²

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.



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







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



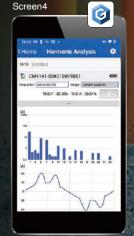
Verify current waveforms on your mobile device



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

GETITON Google Play

App Store



Harmonic analysis for troubleshooting

GENNECT

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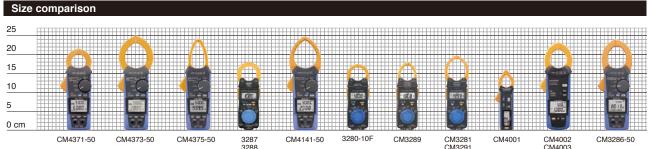
 1 The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth StG, Inc., and any use of such marks by HIOKI E.E. CORPORATION is under license.

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



Lineup

Measurement type			AC / DC Current		
Model	CM4371-50	CM4373-50	CM4375-50	3287	3288 3288-20
Appearance	NEW STORY	NEW	NEW	1000	1000
Core jaw diameter	ф33 mm (1.30 in)	ф55 mm (2.17 in)	ф34 mm (1.34 in)	ф35 mm (1.38 in)	ф35 mm (1.38 in)
AC measurement system	True RMS	True RMS	True RMS	True RMS	MEAN Value True RMS (-20)
Frequency characteristics	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 current (Resolution) Guaranteed accuracy range	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 ^{r3}	1000 A (0.1) Full display range ⁻³
DC current (Resolution)	600 A (0.01)	2000 A (0.1)	999.9 A (0.1)	100 A (0.01)	1000 A (0.1)
AC Voltage	1000 V	1000 V	1000 V	600 V	600 V
DC Voltage	2000 V*1	2000 V*1	2000 V*1	600 V	600 V
AC Voltage DC Voltage Power Resistance Temperature Electrostatic capacity	1200 kVA (DC)*1	4000 kVA (DC)*1	2000 kVA (DC)*1	N/A	N/A
Resistance	6 ΜΩ	6 MΩ	6 ΜΩ	42 MΩ	42 MΩ
Temperature	-40°C to 400°C	-40°C to 400°C	-40°C to 400°C	N/A	N/A
Electrostatic capacity	~	V	V	N/A	N/A
Frequency	999.9 Hz	999.9 Hz	999.9 Hz	N/A	N/A
Rush current	V	V	V	N/A	N/A
Continuity check	~	~	V	~	V
Diode check	~	V	V	N/A	N/A
Non-Contact Voltage	~	~	N / A	N/A	N/A
Low-pass filter	✓	V	✓	N/A	N/A
Auto power off	~	~	V	~	~
Auto range	~	~	V	~	~
Data hold	AUTO / MANUAL	AUTO / MANUAL	ALITO / MANULAL		
	AOTO / WAINOAL	AOTO / WIANOAL	AUTO / MANUAL	MANUAL	MANUAL
Automatic AC/DC detection	✓ V	✓ ✓	AUTO/MANUAL	MANUAL N / A	MANUAL N / A
MAX / MIN / AVG	V	V	~	N/A	N/A
MAX / MIN / AVG Output	v v	v v	V	N/A N/A	N/A N/A
MAX / MIN / AVG Output Bluetooth® communication	V N/A	v v N/A	V N/A	N/A N/A N/A	N/A N/A N/A
MAX / MIN / AVG Output Bluetooth® communication Backlight	N / A (with Z3210)	N / A (with Z3210)	N / A (with Z3210)	N/A N/A N/A N/A	N/A N/A N/A N/A
MAX / MIN / AVG Output Bluetooth® communication Backlight Display refresh rate Safety standard	N / A (with Z3210)	N / A (with Z3210)	N / A (with Z3210)	N/A N/A N/A N/A	N/A N/A N/A N/A
Automatic AC/DC detection MAX / MIN / AVG Output Bluetooth® communication Backlight Display refresh rate Safety standard category Safety standard category (with P2000)	N / A N / A (with Z3210) 5 times / s CAT IV 600 V CAT III 1000 V CAT IV 1000 V	N / A N / A (with Z3210) 5 times / s CAT IV 600 V	N / A N / A (with Z3210) S times / s CAT IV 600 V	N / A N / A N / A N / A N / A N / A 2.5 times / s V: CAT III 300 V	N / A N / A N / A N / A N / A N / A 2.5 times / s V: CAT III 300 V
MAX / MIN / AVG Output Bluetooth® communication Backlight Display refresh rate Safety standard category Safety standard category (with P2000)	N / A N / A (with Z3210) 5 times / s CAT IV 600 V CAT III 1000 V CAT IV 1000 V	N / A V (with Z3210) V 5 times / s CAT IV 600 V CAT III 1000 V CAT IV 1000 V	N / A N / A (with Z3210) (with Z3210) Stimes / s CAT IV 600 V CAT III 1000 V CAT IV 1000 V	N / A N / A N / A N / A N / A N / A N / A 2.5 times / s V: CAT III 300 V A: CAT III 600 V	N/A N/A N/A N/A N/A N/A 2.5 times / s V: CAT III 300 V A: CAT III 600 V
MAX / MIN / AVG Output Bluetooth® communication Backlight Display refresh rate Safety standard category Safety standard category (with P2000) CE	N / A N / A (with Z3210) 5 times / s CAT IV 600 V CAT III 1000 V CAT IV 1000 V CAT III 2000 V	N / A N / A (with Z3210) S times / s CAT IV 600 V CAT III 1000 V CAT III 2000 V	N / A N / A (with Z3210) 5 times / s CAT IV 600 V CAT III 1000 V CAT III 2000 V	N / A N / A N / A N / A N / A N / A 2.5 times / s V: CAT III 300 V A: CAT III 600 V	N / A N / A N / A N / A N / A N / A 2.5 times / s V: CAT III 300 V A: CAT III 600 V
MAX / MIN / AVG Output Bluetooth® communication Backlight Display refresh rate Safety standard category Safety standard category (with P2000) CE Dustproof and waterproof	N / A N / A (with Z3210) 5 times / s CAT IV 600 V CAT III 1000 V CAT III 2000 V	N / A N / A (with Z3210) 5 times / s CAT IV 600 V CAT III 1000 V CAT III 2000 V	N / A V (with Z3210) V 5 times / s CAT IV 600 V CAT III 1000 V CAT III 2000 V	N/A N/A N/A N/A N/A N/A 2.5 times / s V: CAT III 300 V A: CAT III 600 V	N/A N/A N/A N/A N/A N/A 2.5 times/s V: CAT III 300 V A: CAT III 600 V
MAX / MIN / AVG Output Bluetooth® communication Backlight Display refresh rate Safety standard category Safety standard category (with P2000) CE Dustproof and waterproof Drop proof	N / A V (with Z3210) V 5 times / s CAT IV 600 V CAT III 1000 V CAT IVI 1000 V CAT III 2000 V	N / A V (with Z3210) V 5 times / s CAT IV 600 V CAT III 1000 V CAT III 2000 V V IP54'2	N / A V (with Z3210) V 5 times / s CAT IV 600 V CAT III 1000 V CAT III 2000 V V IP54*2	N / A N / A N / A N / A N / A N / A 2.5 times / s V: CAT III 300 V A: CAT III 600 V N / A	N/A N/A N/A N/A N/A N/A 2.5 times / s V: CAT III 300 V A: CAT III 600 V N/A
MAX / MIN / AVG Output Bluetooth® communication Backlight Display refresh rate Safety standard category Safety standard	N / A V (with Z3210) V 5 times / s CAT IV 600 V CAT III 1000 V CAT IV 1000 V CAT III 2000 V IP54'2 N / A LR03 ×2	N / A V (with Z3210) V 5 times / s CAT IV 600 V CAT III 1000 V CAT III 2000 V CAT III 2000 V IP54'2 N / A LR03 x2	N / A V (with Z3210) V 5 times / s CAT IV 600 V CAT III 1000 V CAT IV 1000 V CAT III 2000 V IP54'2 N / A LR03 ×2	N / A N / A N / A N / A N / A N / A 2.5 times / s V: CAT III 300 V A: CAT III 600 V N / A N / A N / A CR2032 ×1	N/A N/A N/A N/A N/A N/A 2.5 times /s V: CAT III 300 V A: CAT III 600 V N/A N/A N/A CR2032 ×1



*1: Only when DC HIGH VOLTAGE PROBE P2000 is used *2: While in storage, or when measuring the current in an insulated conductor. Do not use when wet. 3: displayed 0 with below 0.06

Measurement type AC Current							Leakage	Current	AC Power
Model		CM4141-50	3280-10F	CM3289	CM3281	CM3291	CM4001	CM4002 CM4003	CM3286-50
Apı	pearance	NEW			13552 13552			55.	NEW
Co	re jaw diameter	φ55 mm (2.17 in)	ф33 mm (1.30 in)	ф33 mm (1.30 in)	φ46 mm (1.81 in)	φ46 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
Free	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
Measurement parameters	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
ıramı	Temperature	-40°C to 400°C	N/A	N/A	N/A	N/A	N/A	N/A	N/A
eters	Electrostatic capacity	~	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0,	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	~	~	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						
Lov	w-pass filter	~	N/A	N/A	N/A	N/A	~	~	N/A
Aut	to power off	~	~	~	~	~	~	~	~
Aut	to range	~	~	~	~	~	V	~	~
Da	ta hold	AUTO / MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	AUTO / MANUAL	AUTO / MANUAL	AUTO / MANUAL
Auto	matic AC/DC detection	✓ (Voltage only)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MA	X / MIN / AVG	~	N/A	N/A	N/A	N/A	V	~	~
Ou	tput	N/A	N/A	N/A	N/A	N/A	N/A	✓ (CM4003 only)	N/A
Blue	tooth® communication	✓ (with Z3210)	N/A	N/A	N/A	N/A	✓ (with Z3210)	✓ (with Z3210)	✓ (with Z3210)
Ba	cklight	~	N/A	N/A	N/A	N/A	~	~	~
Dis	play 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 egory	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 egory (with P2000)	CAT IV 1000 V CAT III 2000 V	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CE		~	~	~	~	~	V	~	~
Dus	stproof and waterproof	IP50*2	IP40	N/A	N/A	N/A	N/A	IP40	IP50" ²
Dro	op proof	N/A	~	~	~	~	N/A	N/A	N/A
Po	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
	nensions / × 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

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





• LR03 Alkaline battery ×2 Instruction manual

φ **33** SOOO 500.0



φ55 mm =2.17 in 600 A AC/DC φ **55** CAT IV 600 V CAT III 1000 V With P2000 CAT IV 1000 V DC CAT III 2000 V DC With Z3210 Please see www.hioki.com for list of supported regions **GENNECT** Cross



CM4373-50

2000 A AC/DC True RMS CAT IV 600 V CAT III 1000 V

With P2000 **CAT IV 1000 V DC**

CAT III 2000 V DC With Z3210

Bluetooth Please see www.hioki.com for list of supported regions **GENNECT** Cross φ34 mm =1.34 in

φ **34**

9999

CM4375-50 1000 A AC/DC True RMS

> CAT IV 600 V CAT III 1000 V

With P2000 **CAT IV 1000 V DC** CAT III 2000 V DC

With Z3210 Bluetooth

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





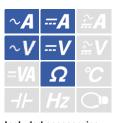
WIRELESS ADAPTER Z3210 (Option) Attach to enable Bluetooth® wireless technology



DC HIGH VOLTAGE PROBE P2000 (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



Included accessories



· Coin type lithium battery CR2032×1 Instruction manual

φ **35** mm

φ35 mm =1.38 in 3287 100 A AC/DC True RMS V: CAT III 300 V A: CAT III 600 V



3288 1000 A AC/DC True RMS V: CAT III 300 V A: CAT III 600 V

φ35 mm =1.38 in

φ **35** mm

φ35 mm =1.38 in

3288-20

1000 A AC/DC True RMS

V: CAT III 300 V A: CAT III 600 V



C	ATS 🔩 FOR	HOLD	OFF RM	S NCV	PEAK FILTER ACTOC INRUSH	
Me	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 range: 1.0 A to 2000 A)	±1.3% rdg ±0.3 A
		N/A	N/A	~	1000 A (guaranteed accuracy range: 1.0 A to 999.9 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 range: ±1.0A to ±2000 A)	±1.3% rdg ±0.3 A
ĕ		N/A	N/A	>	1000 A (guaranteed accuracy range: ±1.0 A to ±999.9 A)	±1.3% rdg ±0.3 A
ası		~	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
Measurement	AC + DC Current	N/A	~	N/A	600.0 A/2000 A (guaranteed accuracy range: 1.0 A to 2000 A)	±1.3% rdg ±1.3 A
æ		N/A	N/A	>	1000 A (guaranteed accuracy range: 1.0 A to 999.9 A)	±1.3% rdg ±1.3 A
	AC Voltage	~	~	~	6.000 V/60.00 V/600.0 V/1000 V	±0.9% rdg ±0.003 V
parameters	DC Voltage	✓	~	'	600.0 mV/6.000 V/60.00 V/600.0 V/1000 V/2000 V ²	±0.5% rdg ±0.5 mV
3	AC + DC Voltage	~	~	<i>\</i>	6.000 V/60.00 V/600.0 V/1000 V	±1.0% rdg ±0.013 V
ete		<i>'</i>	N/A	N/A	0.0 VA to ±1200 kVA ⁻²	±2.0% rdg ±20 dgt
Š	DC Power	N/A	~	N/A	0.000 kVA to ±4000 kVA*2	±2.0% rdg ±20 dgt
		N / A N / A		±2.0% rdg ±0.020 kVA		
	Resistance	~	~	~	600.0 Ω/6.000 kΩ/60.00 kΩ/600.0 kΩ/6.000 MΩ	±0.7% rdg ±0.5 Ω
	Temperature	~	~	~	-40.0°C to 400.0°C	±0.5% rdg ±3.0°C
	Electrostatic capacity	~	~	~	1.000 μF/10.00 μF/100.0 μF/1000 μF	±1.9% rdg ±0.005 μF
	Frequency	~	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		C, 90% RH or	loos (non con	danastina)	
	Storage temperature		C, 90% RH or		<u> </u>	Order code CM4373-91
	Dustproof and waterproof		0, 90 % 111101	1655 (11011-0011	densating)	Order code CM4373-91
			I D000		Order code (CM4371-50) Order code (CM4371-90	Order code (CM4375-91)
Other	Power supply Continuous operating time	Alkaline batte 40 hours*5	ery LH03 x2		Order code (CM4373-50) Order code (CM4373-90)	
ēr	Dimensions (W × H × D)	CM4373-50:	65 × 215 × 35 65 × 250 × 35 65 × 242 × 35	6 mm (2.56 × 9	.46 × 1.38 in) Order code (CM4375-50) Order code (CM4375-90	
	Weight	CM4373-50:	340 g (12 oz) 530 g (18.7 o 350 g (12.3 o		Model CM437x-90 includes Z32 Model CM437x-91 includes P200 Model CM437x-92 includes P2000, 2	00 as a set

*1: Excludes CM4375-50 *2: Only when DC HIGH VOLTAGE PROBE P2000 is used *3: Excludes electrostatic capacity, frequency, and temperature *4: While in storage, or when measuring the current an insulated conductor. Do not use when wet. *5: With backlight and Bluetooth® communications turned OFF

CA		HOLD	OFF RM	NCV	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
rement paramete	DC Current	~	N/A	N/A	10.00 A/100.0 A	±1.5% rdg ±5 dgt
	DC Current	N/A	~	~	100.0 A/1000 A	±1.5% rdg ±5 dgt
	AC Voltage	~	~	~	4.200 V/42.00 V/420.0 V/600 V	±2.3% rdg ±8 dgt
	DC Voltage	~	V	~	420.0 mV/4.200 V/42.00 V/420.0 V/600 V	±1.3% rdg ±4 dgt
S	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 Storage temperature		80% RH or le C, 80% RH or		<u> </u>	
요	Dustproof and waterproof		C, 80% HH 01	iess (non-con	densaling)	Order code 3287
her	Power supply Continuous operating time		nium battery C	R2032 ×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

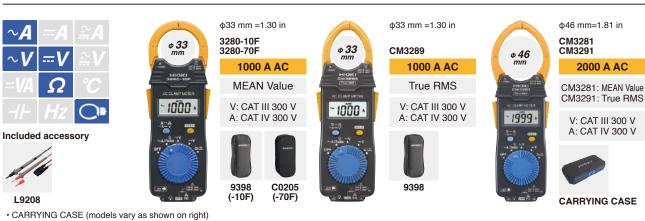
AC CLAMP METER CM4141-50

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



Leakage Current

Coin type lithium battery CR2032×1

Instruction manual





CA	ir 🖄 🖒	HOLD OFF RMS NCV	PEAK FILTER AC/DC INRUSH	
Mc	odel	CM4141-50		Basic accuracy
3	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
leasu	AC Voltage	V	6.000 V/60.00 V/600.0 V/1000 V	±0.9% rdg ±0.003 V
E E	DC Voltage	V	600.0 mV/6.000 V/60.00 V/600.0 V/1000 V/2000 V*1	±0.5% rdg ±0.5 mV
nen	AC + DC Voltage	V	6.000 V/60.00 V/600.0 V/1000 V	±1.0% rdg ±0.013 V
훘	Resistance	V	600.0 Ω/6.000 kΩ/60.00 kΩ/600.0 kΩ/6.000 MΩ	±0.7% rdg ±0.5 Ω
aran	Temperature	V	-40.0°C to 400.0°C	±0.5% rdg ±3.0°C
ete	Electrostatic capacity	V	1.000 μF/10.00 μF/100.0 μF/1000 μF	±1.9% rdg ±0.005 μF
S	Frequency	V	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-con	densating)	
	Storage temperature	-30°C to 70°C, 90% RH or less (non-con	densating)	
Other	Dustproof and waterproof	IP50 ^{*3}		Order code (CM4141-50)
ner	Power supply Continuous operating time	Alkaline battery LR03 ×2 48 hours ^{*4}		Order code (CM4141-90)
	Dimensions(W × H × D)	65 × 247 × 35 mm (2.56 × 9.72 × 1.38 in)	
	Weight	300 g (10.6 oz)	Model CM4141-90 includes Z3210	as a set

*1: Only when DC HIGH VOLTAGE PROBE P2000 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

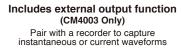
C	CATS PEAK FILTER ACTOC INRUSH					
M	odel	3280-10F	CM3289	CM3281 · CM3291		Basic accuracy
Meas	AC Current	~	~	N/A	42.00 A/420.0 A/1000 A (guaranteed accuracy range: 4.00A to 1000 A)	±1.5% rdg ±5 dgt
asur	AC Current	N/A	N/A	~	42.00 A/420.0 A/2000 A (guaranteed accuracy range: 4.00A to 1999 A)	±1.5% rdg ±5 dgt
emen	AC Voltage	~	~	~	4.200 V/42.00 V/420.0 V/600 V	±1.8% rdg ±7 dgt
titer	DC Voltage	~	~	V	420.0 mV/4.200 V/42.00 V/420.0 V/600 V	±1.0% rdg ±3 dgt
- S	Resistance	~	~	V	420.0 Ω /4.200 k Ω /42.00 k Ω /420.0 k Ω /4.200 M Ω /42.00 M Ω	±2.0% rdg ±4 dgt
Othe	Display refresh rate Operating temperature Storage temperature Dustproof and waterproof Power supply Continuous operating time	-25°C to 65° IP40 (EN605 Coin type lith	C, 80% RH of 529)*2 hium battery C M3281: 120 h		<u> </u>	Order code 3280-10F
7	Dimensions (W×H×D)	CM3289: 57: CM3281, CM 3280-10F: 1 CM3289: 10	× 181 × 16mm 3291: 57 × 19 		(a. 0.63 in) (b.63 in) (a. 4 × 7.80 × 0.63 in) (b. 20 in) (a. 4 × 7.80 × 0.63 in) (b. 20 in) (compatible with the CT6280 AC Flexible Current Sensor (b. 1 in), 4200 A AC (compatible with the CT6280 AC Model 3280-70F includes 3280-10F AC Clamp	Order code
		CIVI3281, CIV	M3291: 103 g	(3.6 OZ)	Meter and CT6280 AC Flexible Sensor as a set	Order code CM3281

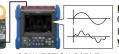
*1 Excludes 3280F *2 Excludes CM3289, CM3281, CM3291



Model		CM4001	CM4002·CM4003		Basic accuracy
Mea	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
e ACC		N/A	V	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
nent ir	Frequency	V	N/A	999.9 Hz	±1.5% rdg ±0.1 Hz
E Fried	quericy	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)





*Using CONNECTION CABLE L9097 (Accessories)

RMS value output (RMS mode) DC 600 mV/f.s. Waveform output (WAVE mode) AC 600 mV/f.s.

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





























NEW 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



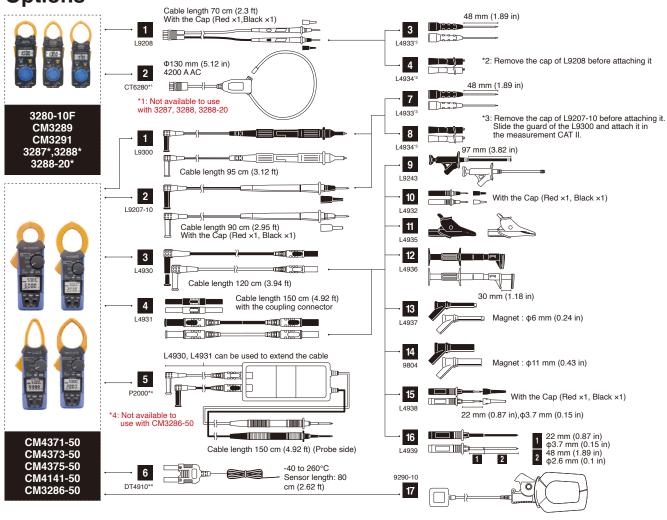
C0203

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	
_	аррагону	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	
Measu	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 1.000 Balanced three-phase 3-wire: [Regeneration] -0.001, [Consumption] 0.000 to 1.000	
G	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		-25°C to 65°C, 80% RH or less (non-condensating)	
Other	Dustproof and	waterproof	IP50*2	
er	Power supply Continuous op	erating time	LR03 Alkaline battery ×2 25 hours	
	Dimensions ($W \times H \times D$)	65 × 241 × 35 mm (2.56 × 9.49 × 1.38 inch)	
	Weight		450 g (15.9 oz)	

Options



32	3280-10F, CM3289, CM3281, CM3291, 3287, 3288, 3288-20							
1	TEST LEAD L9208							
2	AC FLEXIBLE CURRENT SENSOR CT6280	For 3280-10F, CM3289, CM3281, CM3291						
3	CONTACT PIN SET L4933							
4	SMALL ALLIGATOR CLIP SET L4934							
5	CARRYING CASE 9398	For 3280-10F, CM3289, 3287, 3288, 3288-20						
6	CARRYING CASE C0205	Bundled accessory for CT6280						
7	TEST LEADS HOLDER 9209	For 3280-10F, CM3289, 3287, 3288, 3288-20						



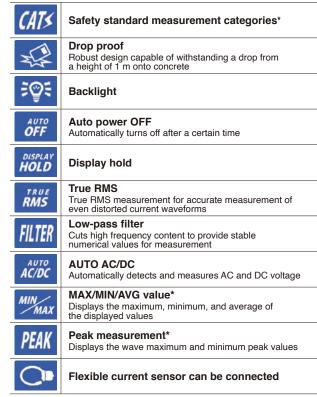
CM4371-50, CM4373-50, CM4375-	50, CM4141-50, CM3286-50
1 TEST LEAD L9300	
2 TEST LEAD L9207-10	
3 CONNECTION CABLE SET L4930	
4 EXTENSION CABLE SET L4931	
5 DC HIGH VOLTAGE PROBE P2000	
6 THERMOCOUPLES(K) DT4910	For CM437x-50 series, CM4141-50
7 CONTACT PIN SET L4933	
8 SMALL ALLIGATOR CLIP SET L4934	
9 GRABBER CLIP L9243	
10 TEST PIN SET L4932	
11 ALLIGATOR CLIP SET L4935	
12 BUS BAR CLIP SET L4936	
13 MAGNETIC ADAPTER SET L4937	
14 MAGNETIC ADAPTER SET 9804	
15 TEST PIN SET L4938	
16 BREAKER PIN SET L4939	
17 CLAMP ON ADAPTER 9290-10	For CM3286-50
18 CONNECTION CORD L9257	Combination of L4930 and L4935
19 CARRYING CASE C0203	

	2	3	4	5	6
L9300	L9207-10	L4930	L4931	P2000	DT4910
	8	9	10		12
L4933	L4934	L9243	L4932	L4935	L4936
13	14	15	16	17	18
L4937	9804	L4938	L4939	9290-10	L9257
19					

С	CM4002, CM4003		
1	CONNECTION CABLE L9097		
2	CONVERSION ADAPTER 9704		
3	AC ADAPTER Z1013		
4	CARRYING CASE C0203		



About the Marks



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

AC voltage		
DC voltage		
DCV + ACV		
Frequency		
Resistance		
Capacitance		
Temperature		
ACA current		
DCA current		
DCA + ACA		
DC Power		
Continuity check Buzzer sounds when continuity is detected		
Diode check Displays voltage if in the correct direction, and OVER if in the reverse direction		
Non-Contact Voltage Buzzer sounds when AC voltage is detected		
Inrush (Rush current) Measures inrush current when power is turned on, etc.		



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