

Product Datasheet - Technical Specifications



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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.











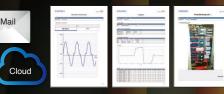
Attach to enable Bluetooth® wireless technology

Transport to GENNECT Cross

Z3210

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



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

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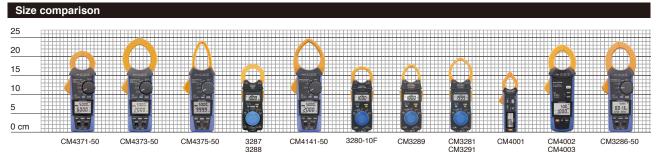
 1 The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth StG, Inc., and any use of such marks by HIOKI E.E. CORPORATION is under license.

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



Lineup

Ме	asurement type			AC / DC Current		
Mod	del	CM4371-50	CM4373-50	CM4375-50	3287	3288 3288-20
Арр	earance	NEW Solid	NEW	NEW 5555	rdoo.	1000
Cord	e jaw diameter	ф33 mm (1.30 in)	ф55 mm (2.17 in)	ф34 mm (1.34 in)	φ35 mm (1.38 in)	ф35 mm (1.38 in)
AC m	neasurement system	True RMS	True RMS	True RMS	True RMS	MEAN Value True RMS (-20)
Freq	uency characteristics	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' ⁵	1000 A (0.1) Full display range⁻⁵
	DC current (Resolution)	600 A (0.01)	2000 A (0.1)	999.9 A (0.1)	100 A (0.01)	1000 A (0.1)
Me	AC Voltage	1000 V	1000 V	1000 V	600 V	600 V
Measurement parameters	DC Voltage	2000 V*1	2000 V*1	2000 V*1	600 V	600 V
reme	Power	1200 kVA (DC)*1	4000 kVA (DC)*1	2000 kVA (DC)*1	N/A	N/A
nt pa	Resistance	6 ΜΩ	6 ΜΩ	6 ΜΩ	42 MΩ	42 MΩ
aram	Temperature	-40°C to 400°C	-40°C to 400°C	-40°C to 400°C	N/A	N/A
eter	Electrostatic capacity	V	V	V	N/A	N/A
	Frequency	999.9 Hz	999.9 Hz	999.9 Hz	N/A	N/A
ſ	Rush current	V	~	V	N/A	N/A
(Continuity check	V	V	V	~	~
ſ	Diode check	v	~	✓	N/A	N/A
1	Non-Contact Voltage	✓	~	N/A	N/A	N/A
Low	r-pass filter	v	V	V	N/A	N/A
Auto	power off	✓	V	✓	✓	V
Auto	o range	✓	V	✓	✓	✓
Data	a hold	AUTO / MANUAL	AUTO / MANUAL	AUTO / MANUAL	MANUAL	MANUAL
Autor	matic AC/DC detection	✓	V	✓	N/A	N/A
MAX	X / MIN / AVG	✓	·	✓	N/A	N/A
Outp	put	N/A	N/A	N/A	N/A	N/A
Bluet	tooth® communication	✓ (with Z3210)	✓ (with Z3210)	✓ (with Z3210)	N/A	N/A
Bac	klight	V	V	V	N/A	N/A
Disp	olay refresh rate	5 times / s	5 times / s	5 times / s	2.5 times / s	2.5 times / s
	ety standard egory	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
	ety standard egory (with P2000)	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
Dust	proof and waterproof	IP20°2, IP54°3	IP20 ¹² , IP54 ¹³	IP20 ^{'2} , IP54 ^{'3}	N/A	N/A
Dro	p proof	N/A	N/A	N/A	N/A	N/A
		LR03 ×2	LR03 ×2 Alkaline	LR03 ×2 Alkaline	CR2032 ×1 Coin type	CR2032 ×1 Coin type
	ver supply	Alkaline	Aircillic			
Pow	ver supply nensions × H × D)	65 × 215 × 35 mm 2.56 × 8.46 × 1.38 in	65 × 250 × 35 mm 2.56 × 9.84 × 1.38 in	65 × 242 × 35 mm 2.56 × 9.53 × 1.38 in	57 × 180 × 16 mm 2.24 × 7.09 × 0.63 in	57 × 180 × 16 mm 2.24 × 7.09 × 0.63 in



*1: Only when DC HIGH VOLTAGE PROBE P2000 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

Measurement type				AC Current	t		Leakage	Current	AC Power
Mo	odel	CM4141-50	3280-10F	CM3289	CM3281	CM3291	CM4001	CM4002 CM4003	CM3286-50
Appearance		NEW PROPERTY OF THE PROPERTY O	1000		15997	15991		Sept.	NEW (a) is
Со	re jaw diameter	φ55 mm (2.17 in)	ф33 mm (1.30 in)	ф33 mm (1.30 in)	φ46 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	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	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
eters	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	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	N/A	N/A	N/A	N/A	N/A	N/A
Lo	w-pass filter	~	N/A	N/A	N/A	N/A	v	~	N/A
Au	to power off	~	~	~	~	~	~	~	~
Au	to range	~	~	~	~	~	V	~	~
Da	ta hold	AUTO / MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	AUTO / MANUAL	AUTO / MANUAL	AUTO / MANUAL
Auto	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	~	~	~
_	tput	N/A	N/A	N/A	N/A	N/A	N/A	✓ (CM4003 only)	N/A
	etooth® communication	✓ (with Z3210)	N/A	N/A	N/A	N/A	✓ (with Z3210)	✓ (with Z3210)	✓ (with Z3210)
_	cklight	<i>V</i>	N/A	N/A	N/A	N/A	<i>V</i>	V	V
	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		~	~	~	~	~	~	~	~
Dus	stproof and waterproof	IP50*3 *4	IP40	N/A	N/A	N/A	N/A	IP40	IP20 ¹² , IP50 ¹³
Dro	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
	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 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





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

· Coin type lithium battery CR2032×1

Instruction manual



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



-	<i>MT</i> <	DISPLAY	AUTO TRI	"I NCV		MIN PEAK FIL	TED AUTO INDIICU	
Mo	odel	HOLD CM4371-50	OFF RM	CM4375-50		MAX FLAN FIL	EN AC/DC INNUST	Basic accuracy
	-	V	N/A	N/A	20.00 A/600.0 A (guaranteed accuracy rang	e: 1.00 A to 600.0 A)	±1.3% rdg ±0.08 A
	AC Current	N/A	~	N/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	1 10	guaranteed accuracy rang	,	±1.3% rdg ±0.08 A
	DC Current	N/A	~	N/A		juaranteed accuracy range		±1.3% rdg ±0.3 A
3		N/A	N/A	~	,,,	ed accuracy range: ±1.0 A		±1.3% rdg ±0.3 A
Measure		~	N/A	N/A		guaranteed accuracy rang		±1.3% rdg ±0.13 A
Ĕ	AC + DC Current	N/A	~	N/A		juaranteed accuracy range		±1.3% rdg ±1.3 A
me		N/A	N/A	~	,,,	ed accuracy range: 1.0 A to		±1.3% rdg ±1.3 A
ment	AC Voltage	~	~	~	6.000 V/60.00 V/6			±0.9% rdg ±0.003 V
	DC Voltage	~	~	~		00.0 mV/6.000 V/60.00 V/600.0 V/1000 V/2000 V ²		
parameters	AC + DC Voltage	V	V	V		.000 V/60.00 V/600.0 V/1000 V		
net		~	N/A	N/A	0.0 VA to ±1200 k	±2.0% rdg ±20 dgt		
ers	DC Power	N/A	~	N/A	0.000 kVA to ±4000 kVA*2			±2.0% rdg ±20 dgt
		N/A	N/A	~	0.000 kVA to ±2000 kVA ⁻²			±2.0% rdg ±0.020 kVA
	Resistance	~	~	~	600.0 Ω/6.000 kΩ	600.0 Ω/6.000 kΩ/60.00 kΩ/600.0 kΩ/6.000 MΩ		
	Temperature	~	~	~	-40.0°C to 400.0°C	2		±0.5% rdg ±3.0°C
	Electrostatic capacity	~	~	~	1.000 µF/10.00 µF	F/100.0 μF/1000 μF		±1.9% rdg ±0.005 µF
	Frequency	~	~	~	9.999 Hz/99.99 H	z/999.9 Hz		±0.1% rdg ±0.003 Hz
	Display refresh rate Operating temperature	5 times/s*3	C, 90% RH or	less (non-con	ndensating)			
	Storage temperature		C, 90% RH or					Order code CM4373-91
	Dustproof and waterproof			1000 (11011 0011	.aorioamig/			Order code (Silitara Si
0	Power supply Continuous operating time	Alkaline batt				Order code (CM4371-50	Order code (CM4371-90)	Order code CM4375-91
Other	Dimensions (W × H × D)	CM4371-50: CM4373-50:	65 × 250 × 3	5 mm (2.56 × 9	8.46 × 1.38 in)	Order code (CM4373-50) Order code (CM4375-50)	Order code	Order code
	Weight	CM4373-50:	340 g (12 oz) 530 g (18.7 o 350 g (12.3 o	z)		Mod	el CM437x-90 includes Z3210 el CM437x-91 includes P2000 M437x-92 includes P2000, Z3:	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: Voltage measurement in a completely dry condition. When jaw closes. *5: While in storage. *6: With backlight and Bluetooth® communications turned OFF

(1		HOLD	OFF RM		PEAK FILTER ACTOC INRUSH	
Me	odel	3287	3288	3288-20		Basic accuracy
<u>×</u>	AC Current	V	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
Measu	AC Current	N/A	~	~	100.0 A/1000 A (Display range: 0A to 100.0 A/1000 A)	±1.5% rdg ±5 dgt
ਕ	DC Current	~	N/A	N/A	10.00 A/100.0 A	±1.5% rdg ±5 dgt
ment p	DC Current	N/A	~	~	100.0 A/1000 A	±1.5% rdg ±5 dgt
oarai	AC Voltage	~	~	~	4.200 V/42.00 V/420.0 V/600 V	±2.3% rdg ±8 dgt
nete	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	2.5 times/s 0°C to 40°C	, 80% RH or le	ss (non-conde	ensating)	
	Storage temperature		C, 80% RH or		<u> </u>	
2	Dustproof and waterproof	N/A		,	<u> </u>	Order code 3287
Other	Power supply Continuous operating time	Coin type litt 25 hours	hium battery C	R2032 ×1		Order code 3287 Order code 3288
	Dimensions($W \times H \times D$)	57 × 180 × 1	16 mm (2.24 × 1	7.09 × 0.63 in)		(2000.00)
	Weight	3287: 170 g	(6.0 oz), 3288	, 3288-20: 150	O g (5.3 oz)	Order code (3288-20)

AC Current

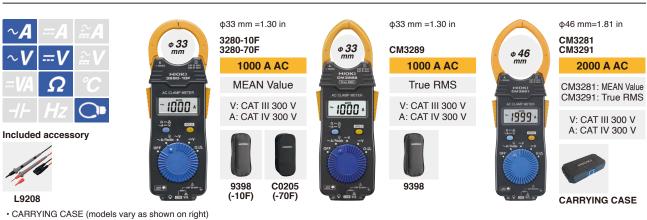
AC CLAMP METER CM4141-50

Product warranty for 3 years Accuracy guaranteed for 1 year



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

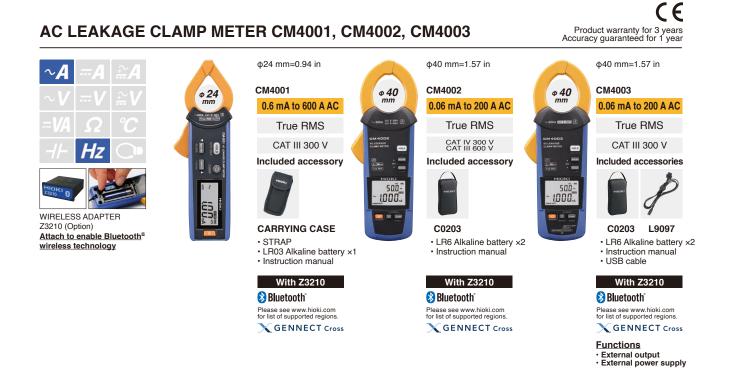
Product warranty for 3 years Accuracy guaranteed for 1 year



Leakage Current

Coin type lithium battery CR2032×1

Instruction manual



C	475 🚅 🧐	OISPLAY OFF RMS NCV	PEAK FILTER ACIDO INRUSH	
M	odel	CM4141-50		Basic accuracy
3	AC Current	✓	60.00 A/600.0 A/2000 A (guaranteed accuracy range: 1.00A to 2000 A)	±1.5% rdg ±0.08 A
eas	AC Voltage	V	6.000 V/60.00 V/600.0 V/1000 V	±0.9% rdg ±0.003 V
ure	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
ner	AC + DC Voltage	✓	6.000 V/60.00 V/600.0 V/1000 V	±1.0% rdg ±0.013 V
ğ	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
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	ndensating)	
	Storage temperature	-30°C to 70°C, 90% RH or less (non-con	ndensating)	
요	Dustproof and waterproof	IP50*3		Order code (CM4141-50)
Je.	Power supply	Alkaline battery LR03 ×2		Order code CM4141-90
	Continuous operating time	48 hours*4		Order code CM4141-90
	Dimensions(W x H x 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

CA		HOLD	OFF RM		PEAK FILTER ACCIDIC INRUSH	
Mo	odel	3280-10F	CM3289	CM3281 · CM3291		Basic accuracy
Mea	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	~	~	V	4.200 V/42.00 V/420.0 V/600 V	±1.8% rdg ±7 dgt
t ter	DC Voltage	~	~	V	420.0 mV/4.200 V/42.00 V/420.0 V/600 V	±1.0% rdg ±3 dgt
28	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
Other	Display refresh rate Operating temperature Storage temperature Dustproof and waterproof Power supply Continuous operating time	2.5 times/s -25°C to 65° -25°C to 65° IP40 (EN605) Coin type littl 3280-10F, C CM3289: 70 CM3291: 70		Order code 3280-10F		
	Dimensions (W×H×D)	CM3289: 57	× 181 × 16mm	m (2.24 × 6.89 × (2.24 × 7.13 × 0 8 × 16 mm (2.24		Order code
	Weight	CM3289: 10	00 g (3.5 oz) 0 g (3.5 oz) //3291: 103 g	(3.6 oz)	Model 3280-70F includes 3280-10F AC Clamp Meter and CT6280 AC Flexible Sensor as a set	Order code CM3291 Order code CM3281

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

CA		DISPLAY AUTO OFF	RMS NCV	<u>-</u> ≅. →	- MIN PEAK FILTER ACIDO INRUSH	
Mo	odel	CM4001	CM4002·CM4003			Basic accuracy
Meas	AC Current	✓	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
aurem	AC Current	N/A	V	6.000 mA/60.00 mA/60	00.0 mA/6.000A/60.00A/200.0A (guaranteed accuracy range: 0.060 mA to 200.0A)	±1.0% rdg ±0.005 mA
ent it	Frequency	✓	N/A	999.9 Hz		±1.5% rdg ±0.1 Hz
ems	requeries	N/A	V	999.9 Hz/2000 l	Hz	±0.1% rdg ±0.1 Hz
	Display refresh rate	5 times/s			Includes external output function	Order code CM4001
	Operating temperature	-10°C to 65°C (non-condensating)			(CM4003 Only)	Order code CM4001-90
	Storage temperature		65°C (non-condensat -30°C to 70°C (non-c		Pair with a recorder to capture instantaneous or current waveforms	Older code Older
	Dustproof and waterproof	CM4002, CM4003:	IP40		RMS value output (RMS mode) DC 600 mV/f.s. Waveform output	Order code CM4002
Othe	Power supply	CM4001: LR03 Alka CM4002. CM4003:	aline battery × 1, 32 h	nours		Order code (CM4002-90)
e.	Continuous operating time		y x 2, 48 hours (LR6, TER Z1013 (Option)			Order code CM4003
	Dimensions(W × H × D)		× 27 mm (1.46 × 6.30 4 × 233 × 36 mm (2.52		*Using CONNECTION CABLE (WAVE mode) L9097 (Accessories) AC 600 mV/f.s.	Order code
	Weight	CM4001: 115 g (4.7 CM4002, CM4003:		,	Model CM4001-90, CM4002-90, CM4003-90 inc	<u> </u>

AC Power

AC CLAMP POWER METER CM3286-50

Product warranty for 3 years Accuracy guaranteed for 1 year

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

Included accessories

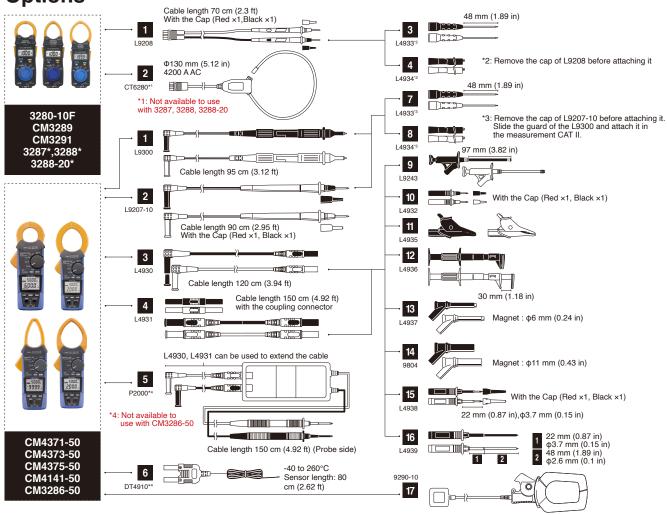
· Instruction manual

*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	
_	аррагот	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 1.00 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)	ı	Voltage or current harmonic levels up to 30th order, content factor, total harmonic distortion ratio	
	Display refre	sh rate	2 times/s	
	Operating te	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	IP20°2, IP50°3	
ē	Power supply Continuous or	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)	





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						



5

6

3 4

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 L49315 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 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

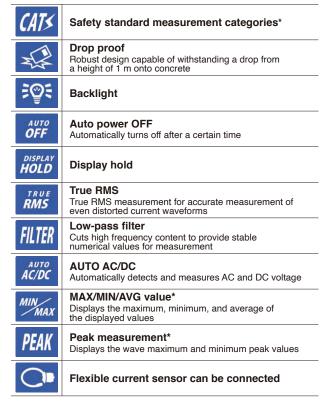
			11/11		
L9300	L9207-10	L4930	L4931	P2000	DT4910
	8	9	10		12
L4933	L4934	L9243	L4932	L4935	L4936
13	14	15	16		18
L4937	9804	L4938	L4939	9290-10	L9257
19 C0203					

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



2

About the Marks



^{*}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
A	DCA current
<i>≟A</i>	DCA + ACA
<i>VA</i>	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
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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