

HIOKI

CLAMP METER Series



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 droplets.

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

DC High Voltage Probe P2000

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 Z3210*1

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

Z3210 For more details

Manage measurement data using GENNECT Cross*2

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.

Mail

Cloud

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

Bluetooth® communications

Screen1

Screen2

Screen3

Screen4

Transfer data to a tablet wirelessly

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

Harmonic analysis for troubleshooting

*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.

GET IT ON Google Play

Download on the App Store

GENNECT Cross For more details

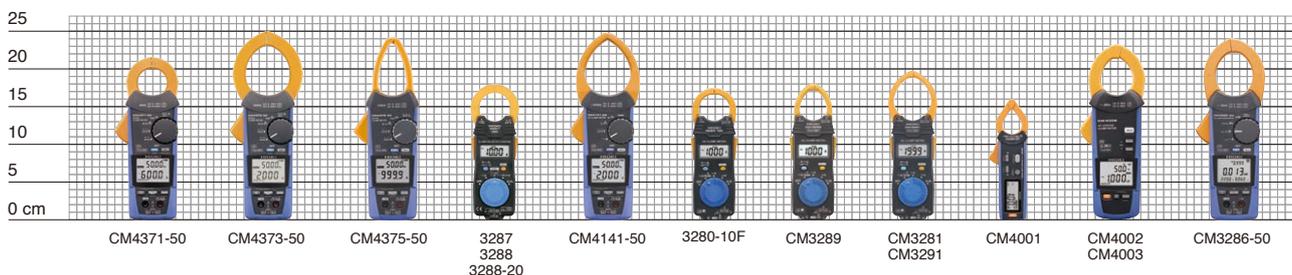
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*For the latest information about countries and regions where wireless operation is currently supported, please visit the Hioki website.



Lineup

Measurement type	AC / DC Current					
Model	CM4371-50	CM4373-50	CM4375-50	3287	3288 3288-20	
Appearance						
Core jaw diameter	φ33 mm (1.30 in)	φ55 mm (2.17 in)	φ34 mm (1.34 in)	φ35 mm (1.38 in)	φ35 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 500 Hz				
Measurement parameters	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 ³	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
	Power	1200 kVA (DC) ¹	4000 kVA (DC) ¹	2000 kVA (DC) ¹	N / A	N / A
	Resistance	6 MΩ	6 MΩ	6 MΩ	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	✓	✓	✓	N / A	N / A
	Frequency	999.9 Hz	999.9 Hz	999.9 Hz	N / A	N / A
	Rush current	✓	✓	✓	N / A	N / A
	Continuity check	✓	✓	✓	✓	✓
	Diode check	✓	✓	✓	N / A	N / A
	Non-Contact Voltage	✓	✓	N / A	N / A	N / A
Low-pass filter	✓	✓	✓	N / A	N / A	
Auto power off	✓	✓	✓	✓	✓	
Auto range	✓	✓	✓	✓	✓	
Data hold	AUTO / MANUAL	AUTO / MANUAL	AUTO / MANUAL	MANUAL	MANUAL	
Automatic AC/DC detection	✓	✓	✓	N / A	N / A	
MAX / MIN / AVG	✓	✓	✓	N / A	N / A	
Output	N / A	N / A	N / A	N / A	N / A	
Bluetooth® communication	✓ (with Z3210)	✓ (with Z3210)	✓ (with Z3210)	N / A	N / A	
Backlight	✓	✓	✓	N / A	N / A	
Display refresh rate	5 times / s	5 times / s	5 times / s	2.5 times / s	2.5 times / s	
Safety standard category	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 standard category (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	✓	✓	✓	✓	✓	
Dustproof and waterproof	IP54 ²	IP54 ²	IP54 ²	N / A	N / A	
Drop proof	N / A	N / A	N / A	N / A	N / A	
Power supply	LR03 ×2 Alkaline	LR03 ×2 Alkaline	LR03 ×2 Alkaline	CR2032 ×1 Coin type	CR2032 ×1 Coin type	
Dimensions (W × 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	
Weight	340 g / 12.0 oz	530 g / 18.7 oz	350 g / 12.3 oz	170 g / 6.0 oz	150 g / 5.3 oz	

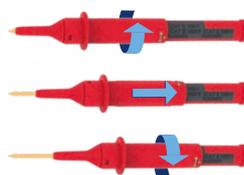
Size comparison



*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	
Appearance									
Core jaw diameter	φ55 mm (2.17 in)	φ33 mm (1.30 in)	φ33 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	
Frequency 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	
Measurement parameters	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
	AC Voltage	1000 V	600 V	600 V	600 V	600 V	N / A	N / A	600 V
	DC Voltage	2000 V ¹	600 V	600 V	600 V	600 V	N / A	N / A	N / A
	Power	N / A	N / A	N / A	N / A	N / A	N / A	N / A	360 kW (AC)
	Resistance	6 MΩ	42 MΩ	42 MΩ	42 MΩ	42 MΩ	N / A	N / A	N / A
	Temperature	-40°C to 400°C	N / A	N / A	N / A	N / A	N / A	N / A	N / A
	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	✓	✓	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
Low-pass filter	✓	N / A	N / A	N / A	N / A	✓	✓	N / A	
Auto power off	✓	✓	✓	✓	✓	✓	✓	✓	
Auto range	✓	✓	✓	✓	✓	✓	✓	✓	
Data hold	AUTO / MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	AUTO / MANUAL	AUTO / MANUAL	AUTO / MANUAL	
Automatic AC/DC detection	✓ (Voltage only)	N / A	N / A	N / A	N / A	N / A	N / A	N / A	
MAX / MIN / AVG	✓	N / A	N / A	N / A	N / A	✓	✓	✓	
Output	N / A	N / A	N / A	N / A	N / A	N / A	✓ (CM4003 only)	N / A	
Bluetooth® communication	✓ (with Z3210)	N / A	N / A	N / A	N / A	✓ (with Z3210)	✓ (with Z3210)	✓ (with Z3210)	
Backlight	✓	N / A	N / A	N / A	N / A	✓	✓	✓	
Display 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	
Safety standard category	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	
Safety standard category (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	✓	✓	✓	✓	✓	✓	✓	✓	
Dustproof and waterproof	IP50 ²	IP40	N / A	N / A	N / A	N / A	IP40	IP50 ²	
Drop proof	N / A	✓	✓	✓	✓	N / A	N / A	N / A	
Power supply	LR03 x2 Alkaline	CR2032 x1 Coin type	CR2032 x1 Coin type	CR2032 x1 Coin type	CR2032 x1 Coin type	LR03 x1 Alkaline	LR6 x2 Alkaline	LR03 x2 Alkaline	
Dimensions (W x H x D)	65 x 247 x 35 mm 2.56 x 9.72 x 1.38 in	57 x 175 x 16 mm 2.24 x 6.89 x 0.63 in	57 x 181 x 16 mm 2.24 x 7.13 x 0.63 in	57 x 198 x 16 mm 2.24 x 7.80 x 0.63 in	57 x 198 x 16 mm 2.24 x 7.80 x 0.63 in	37 x 160 x 27 mm 1.46 x 6.30 x 1.06 in	64 x 233 x 36 mm 2.52 x 9.17 x 1.41 in	65 x 241 x 35 mm 2.56 x 9.49 x 1.38 in	
Weight	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	

Test leads with an integrated cap for greater convenience and safety



UNLOCK → CAT IV 600 V
CAT III 1000 V

SLIDE

LOCK → CAT II 1000 V

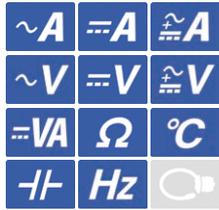
The L9300 test lead with an integrated cap is included as a standard. The finger guard can be easily slid to switch between measurement categories without worrying about losing the cap.

AC/DC Current



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

Product warranty for 3 years
Accuracy guaranteed for 1 year



Accessories



L9300 C0203

- LR03 Alkaline battery x2
- Instruction manual

φ35 mm = 1.30 in



NEW
CM4371-50

600 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

φ55 mm = 2.17 in



NEW
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



NEW
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.
GENNECT Cross



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

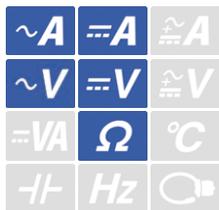


DC HIGH VOLTAGE PROBE P2000 (Option)
Available to measure 2000 V DC

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



Product warranty for 3 years
Accuracy guaranteed for 1 year



Accessories



L9208 9398

- Coin type lithium battery CR2032x1
- Instruction manual

φ35 mm = 1.38 in



3287
100 A AC/DC
True RMS
V: CAT III 300 V
A: CAT III 600 V

φ35 mm = 1.38 in



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

φ35 mm = 1.38 in



3288-20
1000 A AC/DC
True RMS
V: CAT III 300 V
A: CAT III 600 V



For more details



Model	CM4371-50	CM4373-50	CM4375-50		Basic accuracy	
Measurement parameters	AC Current	✓	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
		N/A	✓	N/A	600.0 A/2000 A (guaranteed accuracy range: 1.0 A to 2000 A)	±1.3% rdg ±0.3 A
	DC Current	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
	AC + 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
		✓	N/A	N/A	1000 A (guaranteed accuracy range: ±1.0 A to ±999.9 A)	±1.3% rdg ±0.3 A
	AC Voltage	✓	✓	✓	6.000 V/60.00 V/600.0 V/1000 V	±0.9% rdg ±0.003 V
		✓	✓	✓	600.0 mV/6.000 V/60.00 V/600.0 V/1000 V/2000 V ²	±0.5% rdg ±0.5 mV
	DC Voltage	✓	✓	✓	6.000 V/60.00 V/600.0 V/1000 V	±1.0% rdg ±0.013 V
		✓	N/A	N/A	0.0 VA to ±1200 kVA ²	±2.0% rdg ±20 dgt
	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/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	✓	✓	✓	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 or less (non-condensating)
Storage temperature	-30°C to 70°C, 90% RH or less (non-condensating)
Dustproof and waterproof	IP54 ⁴
Power supply	Alkaline battery LR03 x2
Continuous operating time	40 hours ⁵
Dimensions (W x H x D)	CM4371-50: 65 x 215 x 35 mm (2.56 x 8.46 x 1.38 in) CM4373-50: 65 x 250 x 35 mm (2.56 x 9.84 x 1.38 in) CM4375-50: 65 x 242 x 35 mm (2.56 x 9.53 x 1.38 in)
Weight	CM4371-50: 340 g (12 oz) CM4373-50: 530 g (18.7 oz) CM4375-50: 350 g (12.3 oz)

Order code	CM4373-91
Order code	CM4371-50
Order code	CM4371-90
Order code	CM4375-91
Order code	CM4373-50
Order code	CM4373-90
Order code	CM4373-92
Order code	CM4375-50
Order code	CM4375-90
Order code	CM4375-92

Model CM437x-90 includes Z3210 as a set
Model CM437x-91 includes P2000 as a set
Model CM437x-92 includes P2000, Z3210 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



Model	3287	3288	3288-20		Basic accuracy
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
	N/A	✓	✓	100.0 A/1000 A (Display range: 0A to 100.0 A/1000 A)	±1.5% rdg ±5 dgt
DC Current	✓	N/A	N/A	10.00 A/100.0 A	±1.5% rdg ±5 dgt
	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	✓	✓	✓	420.0 mV/4.200 V/42.00 V/420.0 V/600 V	±1.3% rdg ±4 dgt
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	2.5 times/s
Operating temperature	0°C to 40°C, 80% RH or less (non-condensating)
Storage temperature	-10°C to 50°C, 80% RH or less (non-condensating)
Dustproof and waterproof	N/A
Power supply	Coin type lithium battery CR2032 x1
Continuous operating time	25 hours
Dimensions (W x H x D)	57 x 180 x 16 mm (2.24 x 7.09 x 0.63 in)
Weight	3287: 170 g (6.0 oz), 3288, 3288-20: 150 g (5.3 oz)

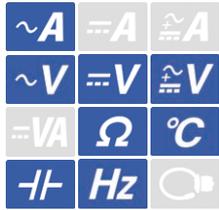
Order code	3287
Order code	3288
Order code	3288-20

AC Current



AC CLAMP METER CM4141-50

Product warranty for 3 years
Accuracy guaranteed for 1 year



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



DC HIGH VOLTAGE PROBE
P2000 (Option)
Available to measure 2000 V DC

Accessories



L9300 C0203

- LR03 Alkaline battery x2
- Instruction manual

φ55 mm = 2.17 in

NEW
CM4141-50

2000 A AC

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®

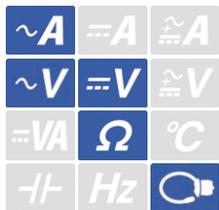
Please see www.hioki.com
for list of supported regions.

GENNECT Cross



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

Product warranty for 3 years
Accuracy guaranteed for 1 year



Accessories



L9208

- CARRYING CASE (models vary as shown on right)
- Coin type lithium battery CR2032x1
- Instruction manual



φ33 mm = 1.30 in

3280-10F
3280-70F

1000 A AC

MEAN Value

V: CAT III 300 V
A: CAT IV 300 V



9398 (-10F)



C0205 (-70F)



φ33 mm = 1.30 in

CM3289

1000 A AC

True RMS

V: CAT III 300 V
A: CAT IV 300 V



9398



φ46 mm = 1.81 in

CM3281
CM3291

2000 A AC

CM3281: MEAN Value
CM3291: True RMS

V: CAT III 300 V
A: CAT IV 300 V



CARRYING CASE

Leakage Current



AC LEAKAGE CLAMP METER CM4001, CM4002, CM4003

Product warranty for 3 years
Accuracy guaranteed for 1 year



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



φ24 mm = 0.94 in

CM4001

0.6 mA to 600 A AC

True RMS

CAT III 300 V

Accessories



CARRYING CASE

- STRAP
- LR03 Alkaline battery x1
- Instruction manual

With Z3210

Bluetooth®

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

GENNECT Cross



φ40 mm = 1.57 in

CM4002

0.06 mA to 200 A AC

True RMS

CAT IV 300 V
CAT III 600 V

Accessories



C0203

- LR6 Alkaline battery x2
- Instruction manual

With Z3210

Bluetooth®

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

GENNECT Cross



φ40 mm = 1.57 in

CM4003

0.06 mA to 200 A AC

True RMS

CAT III 300 V

Accessories



C0203 L9097

- LR6 Alkaline battery x2
- Instruction manual
- USB cable

With Z3210

Bluetooth®

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

GENNECT Cross

Functions

- External output
- External power supply



For more details



Model	CM4141-50	Basic accuracy
AC Current	✓	60.00 A/600.0 A/2000 A (guaranteed accuracy range: 1.00A to 2000 A) ±1.5% rdg ±0.08 A
AC Voltage	✓	6.000 V/60.00 V/600.0 V/1000 V ±0.9% rdg ±0.003 V
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
AC + DC Voltage	✓	6.000 V/60.00 V/600.0 V/1000 V ±1.0% rdg ±0.013 V
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	✓	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-condensating)
Storage temperature	-30°C to 70°C, 90% RH or less (non-condensating)
Dustproof and waterproof	IP50 ³
Power supply	Alkaline battery LR03 x2
Continuous operating time	48 hours ⁴
Dimensions (W x H x D)	65 x 247 x 35 mm (2.56 x 9.72 x 1.38 in)
Weight	300 g (10.6 oz)

Order code **CM4141-50**

Order code **CM4141-90**

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



Model	3280-10F	CM3289	CM3281 · CM3291	Basic accuracy
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
AC Voltage	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
DC Voltage	✓	✓	✓	4.200 V/42.00 V/420.0 V/600 V ±1.8% rdg ±7 dgt
Resistance	✓	✓	✓	420.0 mV/4.200 V/42.00 V/420.0 V/600 V ±1.0% rdg ±3 dgt
				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	2.5 times/s
Operating temperature	-25°C to 65°C, 80% RH or less (non-condensating)
Storage temperature	-25°C to 65°C, 80% RH or less (non-condensating)
Dustproof and waterproof	IP40 (EN60529) ²
Power supply	Coin type lithium battery CR2032 x1
Continuous operating time	3280-10F, CM3281: 120 hours CM3289: 70 hours CM3291: 70 hours
Dimensions (W x H x D)	3280-10F: 57 x 175 x 16 mm (2.24 x 6.89 x 0.63 in) CM3289: 57 x 181 x 16mm (2.24 x 7.13 x 0.63 in) CM3281, CM3291: 57 x 198 x 16 mm (2.24 x 7.80 x 0.63 in)
Weight	3280-10F: 100 g (3.5 oz) CM3289: 100 g (3.5 oz) CM3281, CM3291: 103 g (3.6 oz)



3280F, CM3289, CM3291 are compatible with the CT6280 AC Flexible Current Sensor

φ130mm (5.1 in), 4200 A AC

Model 3280-70F includes 3280-10F AC Clamp Meter and CT6280 AC Flexible Sensor as a set

Order code **3280-10F**

Order code **3280-70F**

Order code **CM3289**

Order code **CM3291**

Order code **CM3281**

¹ Excludes 3280F ² Excludes CM3289, CM3281, CM3291

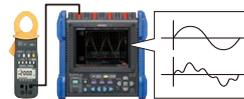


Model	CM4001	CM4002-CM4003	Basic accuracy
AC Current	✓	N / A	60.00 mA/600.0 mA/6.000A/60.00A/600.0A (guaranteed accuracy range: 0.60 mA to 600.0A) ±1.5% rdg ±0.05 mA
	N / A	✓	6.000 mA/60.00 mA/600.0 mA/6.000A/60.00A/200.0A (guaranteed accuracy range: 0.060 mA to 200.0A) ±1.0% rdg ±0.005 mA
Frequency	✓	N / A	999.9 Hz ±1.5% rdg ±0.1 Hz
	N / A	✓	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
Power supply	CM4001: LR03 Alkaline battery x 1, 32 hours CM4002, CM4003: LR6 Alkaline battery x 2, 48 hours (LR6, without Z3210)
Continuous operating time	CM4003: AC ADAPTER Z1013 (Option)
Dimensions (W x H x D)	CM4001: 37 x 160 x 27 mm (1.46 x 6.30 x 1.06 in) CM4002, CM4003: 64 x 233 x 36 mm (2.52 x 9.17 x 1.41 in)
Weight	CM4001: 115 g (4.1 oz) CM4002, CM4003: 400 g (14.1 oz)

Includes external output function (CM4003 Only)

Pair with a recorder to capture instantaneous or current waveforms



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

*Using CONNECTION CABLE L9097 (Accessories)

Order code **CM4001**

Order code **CM4001-90**

Order code **CM4002**

Order code **CM4002-90**

Order code **CM4003**

Order code **CM4003-90**

Order code **Z3210**

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



For more details



AC CLAMP POWER METER CM3286-50

 Product warranty for 3 years
 Accuracy guaranteed for 1 year

 $\phi 46 \text{ mm} = 1.81 \text{ in}$


Accessories



L9257

C0203

- LR03 Alkaline battery x2
- Instruction manual

*1: Harmonics can be displayed using dedicated application software (GENNECT Cross)
 *2: While in storage, or when measuring resistance or current in an insulated conductor in a completely dry condition. Do not use when wet.

NEW

CM3286-50

AC 600 A

True RMS

 CAT IV 600 V
 CAT III 1000 V

With Z3210

Bluetooth

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

GENNECT Cross


 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

Power (Active/reactive/apparent)	Single phase	3.600 kW/36.00 kW/360.0 kW Guaranteed accuracy range: 0.005 kW to 360.0 kW Basic accuracy: $\pm 2.0\%$ rdg ± 7 dgt
	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: $\pm 3.0\%$ rdg ± 10 dgt
	Balanced three-phase 4-wire	10.80 kW/108.0 kW/1080 kW guaranteed accuracy range: 0.040 kW to 1080 kW Basic accuracy: $\pm 2.0\%$ rdg ± 3 dgt
AC Current	6.000 A/60.00 A/600.0 A Basic accuracy: $\pm 1.0\%$ rdg ± 3 dgt	
AC Voltage	600.0 V Basic accuracy: $\pm 0.7\%$ rdg ± 3 dgt	
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	
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 Energy Consumption (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 refresh rate	2 times/s	
Operating temperature	-25°C to 65°C, 80% RH or less (non-condensating)	
Storage temperature	-25°C to 65°C, 80% RH or less (non-condensating)	
Dustproof and waterproof	IP50 ^{*2}	
Power supply	LR03 Alkaline battery x2	
Continuous operating time	25 hours	
Dimensions (W x H x D)	65 x 241 x 35 mm (2.56 x 9.49 x 1.38 inch)	
Weight	450 g (15.9 oz)	

Options

3280-10F, CM3289, CM3291, 3287*, 3288*, 3288-20*

- 1 L9208 Cable length 70 cm (2.3 ft) With the Cap (Red x1, Black x1)
- 2 CT6280*¹ Φ 130 mm (5.12 in) 4200 AAC
- *1: Not available to use with 3287, 3288, 3288-20
- 3 L4933*² 48 mm (1.89 in)
- 4 L4934*² *2: Remove the cap of L9208 before attaching it
- 7 L4933*³ 48 mm (1.89 in)
- 8 L4934*³ *3: Remove the cap of L9207-10 before attaching it. Slide the guard of the L9300 and attach it in the measurement CAT II.
- 9 L9243 97 mm (3.82 in)
- 10 L4932 With the Cap (Red x1, Black x1)
- 11 L4935
- 12 L4936
- 13 L4937 30 mm (1.18 in) Magnet : ϕ 6 mm (0.24 in)
- 14 9804 Magnet : ϕ 11 mm (0.43 in)
- 15 L4938 With the Cap (Red x1, Black x1) 22 mm (0.87 in), ϕ 3.7 mm (0.15 in)
- 16 L4939 1 22 mm (0.87 in) ϕ 3.7 mm (0.15 in) 2 48 mm (1.89 in) ϕ 2.6 mm (0.1 in)
- 17 9290-10

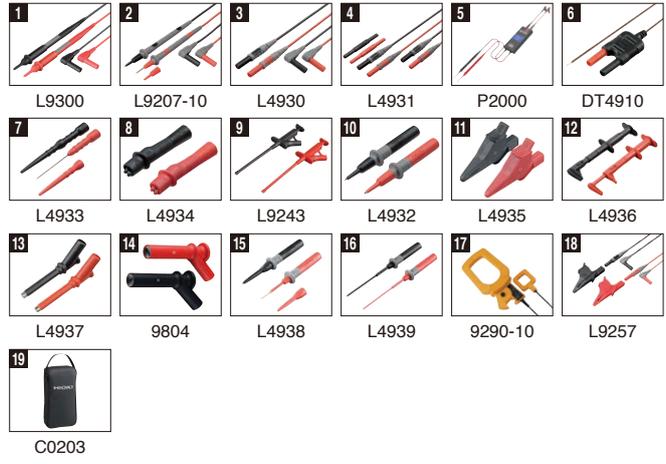
CM4371-50, CM4373-50, CM4375-50, CM4141-50, CM3286-50

- 1 L9300 Cable length 95 cm (3.12 ft)
- 2 L9207-10 Cable length 90 cm (2.95 ft) With the Cap (Red x1, Black x1)
- 3 L4930 Cable length 120 cm (3.94 ft)
- 4 L4931 Cable length 150 cm (4.92 ft) with the coupling connector
- L4930, L4931 can be used to extend the cable
- 5 P2000*⁴
- *4: Not available to use with CM3286-50
- 6 DT4910*⁴ -40 to 260°C Sensor length: 80 cm (2.62 ft)

- 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



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



About the Marks

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

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

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