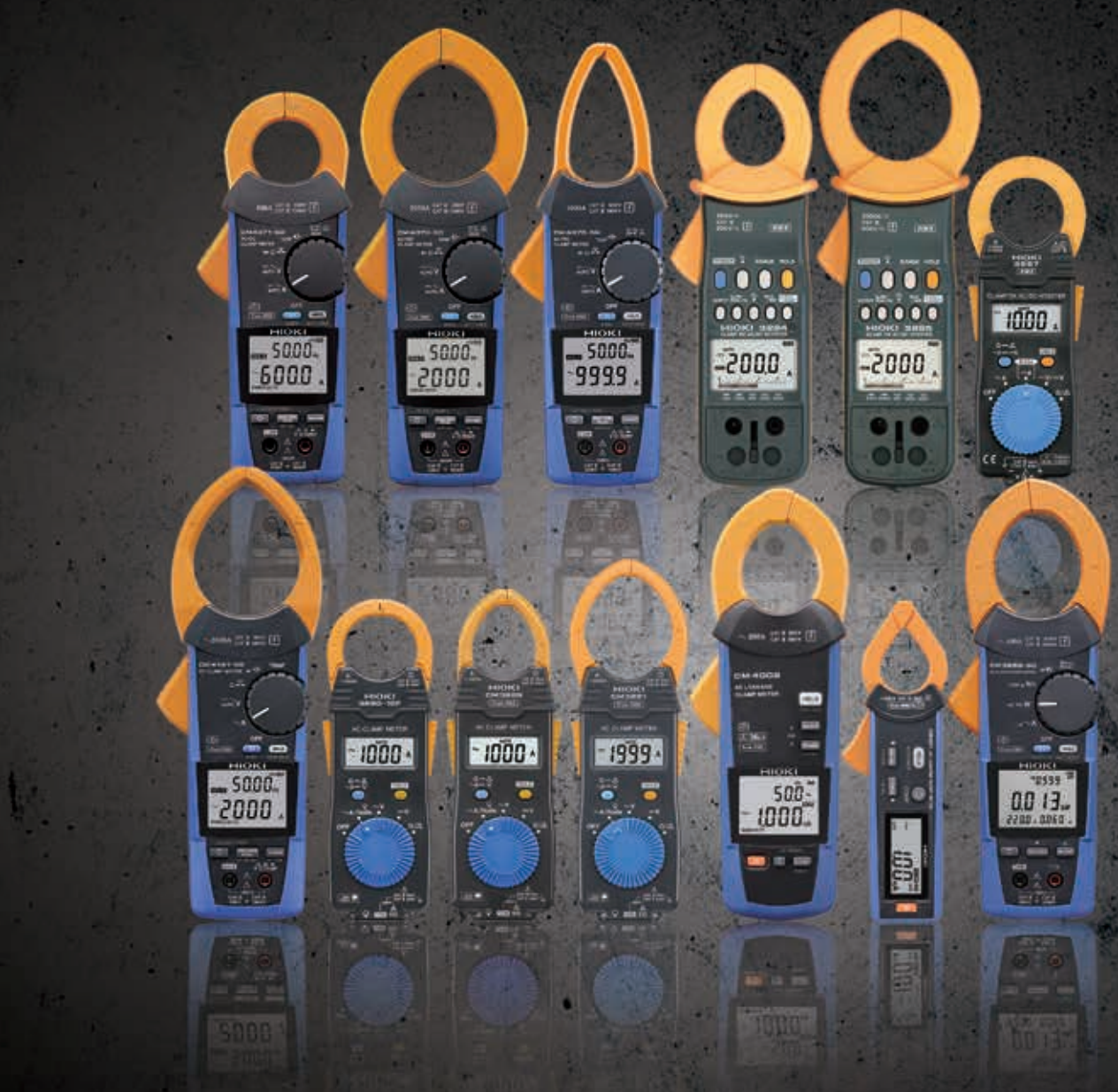
HIOKI

CLAMP METER Series



CLAMP METERS


1000A CAT Ⅳ 600V
CAT Ⅲ 1000V
CM4375-50
AC/DC
CLAMP METER
TEMP
AUTO V
AUTO A
True RMS
OFF
Fn
0 ADJ
HOLD

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

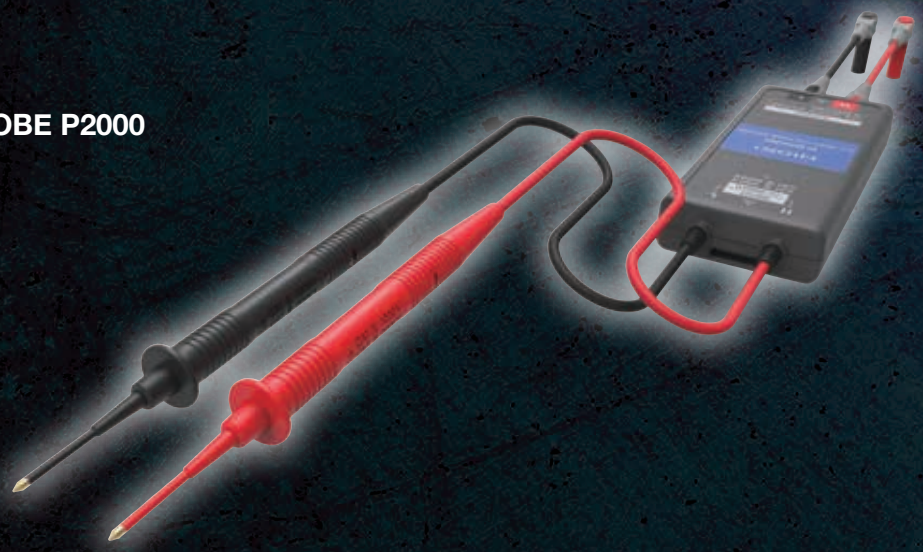
Dustproof and waterproof performance*2



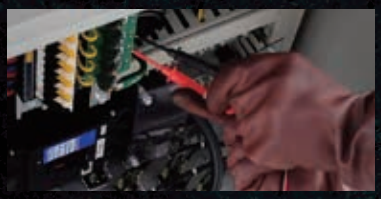
International Protection Code: IP54 (while in storage, or when measuring the current in an insulated conductor). Measurement functionality is maintained despite exposure to sand or dust as well as water droplets.

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

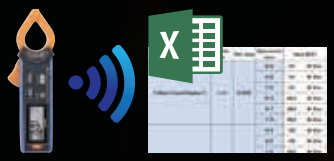
Using Bluetooth® communication with the Z3210*1

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.



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

Bluetooth® communications



Transfer data to a tablet wirelessly

Screen1



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

Screen2



Verify current waveforms on your mobile device

Screen3



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

Screen4



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

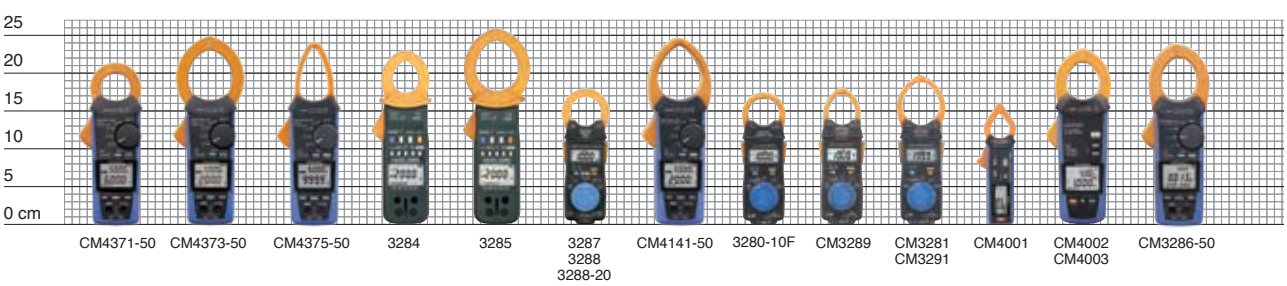
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*Company names and Product names appearing in this catalog are trademarks or registered trademarks of various companies.
*The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by HIOKI E.E. CORPORATION is under license.
*For the latest information about countries and regions where wireless operation is currently supported, please visit the Hioki website.


~2000A CAT Ⅳ 600V
CAT Ⅲ 1000V
CM4141-50
AC CLAMP METER
TEMP
AUTO V
~A
OFF
True RMS
Fn
0 ADJ
HOLD
AUTO HOLD
HIOKI
APS

Lineup

Measurement type		AC / DC Current						
Model		**CM4371-50**	**CM4373-50**	**CM4375-50**	**3284**	**3285**	**3287**	**3288 3288-20**
Appearance					 To be discontinued	 To be discontinued		
Core jaw diameter		ϕ33 mm (1.30 in)	ϕ55 mm (2.17 in)	ϕ34 mm (1.34 in)	ϕ33 mm (1.30 in)	ϕ55 mm (2.17 in)	ϕ35 mm (1.38 in)	ϕ35 mm (1.38 in)
AC measurement system		True RMS	True RMS	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 2 kHz	10 Hz to 1 kHz	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	200 A (0.01) 1 A to 200 A	2000 A (0.1) 10 A to 2000 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)	200 A (0.01)	2000 A (0.1)	100 A (0.01)	1000 A (0.1)
	AC Voltage	1000 V	1000 V	1000 V	600 V	600 V	600 V	600 V
	DC Voltage	2000 V*1	2000 V*1	2000 V*1	600 V	600 V	600 V	600 V
	Power	1200 kVA (DC)*1	4000 kVA (DC)*1	2000 kVA (DC)*1	N / A	N / A	N / A	N / A
	Resistance	6 MΩ	6 MΩ	6 MΩ	N / A	N / A	42 MΩ	42 MΩ
	Temperature	-40°C to 400°C	-40°C to 400°C	-40°C to 400°C	N / A	N / A	N / A	N / A
	Electrostatic capacity	✔	✔	✔	N / A	N / A	N / A	N / A
	Frequency	999.9 Hz	999.9 Hz	999.9 Hz	1000 Hz	1000 Hz	N / A	N / A
	Rush current	✔	✔	✔	N / A	N / A	N / A	N / A
	Continuity check	✔	✔	✔	N / A	N / A	✔	✔
	Diode check	✔	✔	✔	N / A	N / A	N / A	N / A
	Non-Contact Voltage	✔	✔	N / A	N / A	N / A	N / A	N / A
Low-pass filter		✔	✔	✔	N / A	N / A	N / A	N / A
Auto power off		✔	✔	✔	✔	✔	✔	✔
Auto range		✔	✔	✔	✔	✔	✔	✔
Data hold		AUTO / MANUAL	AUTO / MANUAL	AUTO / MANUAL	MANUAL	MANUAL	MANUAL	MANUAL
Automatic AC/DC detection		✔	✔	✔	N / A	N / A	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	N / A	N / A
Backlight		✔	✔	✔	N / A	N / A	N / A	N / A
Display refresh rate		5 times / s	5 times / s	5 times / s	4 times / s *3	4 times / s *3	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	CAT III 600 V	CAT III 600 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	N / A	N / A
CE		✔	✔	✔	N / A	N / A	✔	✔
Dustproof and waterproof		IP54*2	IP54*2	IP54*2	IP40	IP40	N / A	N / A
Drop proof		N / A	N / A	N / A	N / A	N / A	N / A	N / A
Power supply		LR03 ×2 Alkaline	LR03 ×2 Alkaline	LR03 ×2 Alkaline	6F22 ×1 Stacked manganese	6F22 ×1 Stacked manganese	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	62 × 230 × 39 mm 2.44 × 9.06 × 1.54 in	62 × 260 × 39 mm 2.44 × 10.24 × 1.54 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	460 g / 16.2 oz	540 g / 19.0 oz	170 g / 6.0 oz	150 g / 5.3 oz

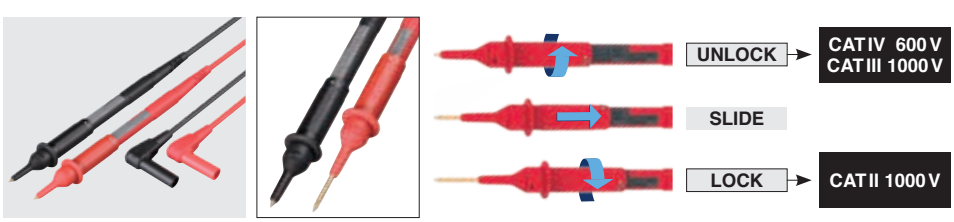
Size comparison



*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: 4 times / s (FAST), 2 times / s (NORMAL), 1 time / 3s (SLOW) *4: Input Voltage *5: 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
Measurement parameters: DC current (Resolution)	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A
Measurement parameters: 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
Measurement parameters: Power	N / A	N / A	N / A	N / A	N / A	N / A	N / A	360 kW (AC)
Measurement parameters: Resistance	6 MΩ	42 MΩ	42 MΩ	42 MΩ	42 MΩ	N / A	N / A	N / A
Measurement parameters: 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
Measurement parameters: Frequency	999.9 Hz	N / A	N / A	N / A	N / A	999.9 Hz	2000 Hz	999.9 Hz
Measurement parameters: Rush current	✔	N / A	N / A	N / A	N / A	✔	✔	N / A
Measurement parameters: Continuity check	✔	✔	✔	✔	✔	N / A	N / A	N / A
Measurement parameters: Diode check	✔	N / A	N / A	N / A	N / A	N / A	N / A	N / A
Measurement parameters: 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 ×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
Dimensions (W × 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
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



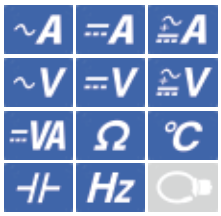
The L9300 test lead with an integrated cap is included as a standard. The finger guard can be easily slid to switch between measurement categories without worrying about losing the cap.

AC/DC Current

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

CE

Product warranty for 3 years
Accuracy guaranteed for 1 year



Accessories



L9300 **C0203**

- LR03 Alkaline battery ×2
- Instruction manual



CM4371-50 New

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



CM4373-50 New

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



CM4375-50 New

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

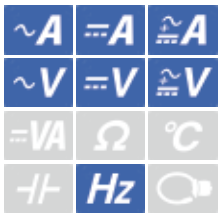


DC HIGH VOLTAGE PROBE
P2000 (Option)
Available to mesure 2000 V DC

CLAMP ON AC/DC HiTESTER 3284, 3285 To be discontinued

Not CE marked

Product warranty for 3 years
Accuracy guaranteed for 1 year



Accessories



L9207-10 **9399/9345***

- Hand strap
- Stacked manganese battery 6F22
- Instruction manual

Model 3284 includes the 9399, and Model 3285 includes the 9346 carrying case.



ϕ33 mm =1.30 in

3284

200 A AC/DC

True RMS

CAT III 600 V



ϕ55 mm =2.17 in

3285

2000 A AC/DC

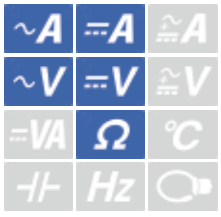
True RMS

CAT III 600 V

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

CE

Product warranty for 3 years
Accuracy guaranteed for 1 year



Accessories



L9208 **9398**

- Coin type lithium battery CR2032×1
- 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

*1

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
	N / A	N / A	✔	1000 A (guaranteed accuracy range: 1.0 A to 999.9 A)	±1.3% rdg ±0.3 A
DC Current	✔	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
	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 + DC Current	✔	N / A	N / A	20.00 A/600.0 A (guaranteed accuracy range: 1.00 A to 600.0 A)	±1.3% rdg ±0.13 A
	N / A	✔	N / A	600.0 A/2000 A (guaranteed accuracy range: 1.0 A to 2000 A)	±1.3% rdg ±1.3 A
	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
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
AC + DC Voltage	✔	✔	✔	6.000 V/60.00 V/600.0 V/1000 V	±1.0% rdg ±0.013 V
DC Power	✔	N / A	N / A	0.0 VA to ±1200 kVA*2	±2.0% rdg ±20 dgt
	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

Other	
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 Continuous operating time	Alkaline battery LR03 ×2 40 hours*5
Dimensions (W × H × D)	CM4371-50: 65 × 215 × 35 mm (2.56 × 8.46 × 1.38 in) CM4373-50: 65 × 250 × 35 mm (2.56 × 9.84 × 1.38 in) CM4375-50: 65 × 242 × 35 mm (2.56 × 9.53 × 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 **CM4371-50**
Order code **CM4373-50**
Order code **CM4375-50**
Order code **CM4371-90**
Order code **CM4373-90**
Order code **CM4375-90**
Order code **CM4373-91**
Order code **CM4375-91**
Order code **CM4373-92**
Order code **CM4375-92**

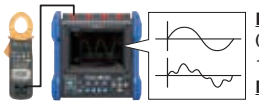
Model CM437x-90 includes Z3210 as a set
Model CM437x-91 includes P2000 as a set
Model CM437x-92 includes P2000, Z3210 as a set

*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	3284	3285		Basic accuracy
Measurement parameters				
AC Current	✔	N / A	20.00 A/200.0 A (guaranteed accuracy range: 1.00 A to 200.0 A)	±1.3% rdg ±3 dgt
	N / A	✔	200.0 A/2000 A (guaranteed accuracy range: 10.0 A to 2000 A)	±1.3% rdg ±3 dgt
DC Current	✔	N / A	20.00 A/200.0 A (guaranteed accuracy range: 1.00 A to 200.0 A)	±1.3% rdg ±3 dgt
	N / A	✔	200.0 A/2000 A (guaranteed accuracy range: 10.0 A to 2000 A)	±1.3% rdg ±3 dgt
AC + DC Current	✔	N / A	20.00 A/200.0 A	±1.3% rdg ±13 dgt
	N / A	✔	200.0 A/2000 A	±1.3% rdg ±13 dgt
AC Voltage	✔	✔	30.00 V/300.0 V/600 V	±1.0% rdg ±3 dgt
DC Voltage	✔	✔	30.00 V/300.0 V/600 V	±1.0% rdg ±3 dgt
AC + DC Voltage	✔	✔	30.00 V/300.0 V/600 V	±1.0% rdg ±7 dgt
Frequency	✔	✔	10.00 Hz/100.0 Hz/1000 Hz	±0.3% rdg ±1 dgt

Other	
Display refresh rate	4 times/s (FAST), 2 times/s (NORMAL), 1 time/3s (SLOW)
Operating temperature	0°C to 40°C, 80% RH or less (non-condensating)
Storage temperature	-10°C to 50°C (non-condensating)
Dustproof and waterproof	IP40
Power supply Continuous operating time	Stacked manganese battery 6F22 ×1, 25 hours or AC adapter 9445-02/-03 (Options)
Dimensions (W × H × D)	3284: 62 × 230 × 39 mm (2.44 × 9.06 × 1.54 in) 3285: 62 × 260 × 39 mm (2.44 × 10.24 × 1.54 in)
Weight	3284: 460 g (16.2 oz) 3285: 540 g (19 oz)

Includes external output function
Pair with a recorder to capture instantaneous or current waveforms



*Requires optional L9094, L9095 or L9096 Output Cord

Recording output
(REC mode)
1V DC / f.s.
Monitor output
(MON mode)
1V AC / f.s.

Order code **3284**
Order code **3285**

Model	3287	3288	3288-20		Basic accuracy
Measurement parameters					
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

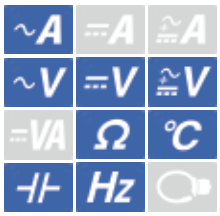
Other	
Display refresh rate	2.5 times/s
Operating temperature	0°C to 40°C, 80% RH or less (non-condensating)
Storage temperature	-10°C to 50°C, 80% RH or less (non-condensating)
Dustproof and waterproof	N / A
Power supply Continuous operating time	Coin type lithium battery CR2032 ×1 25 hours
Dimensions(W × H × D)	57 × 180 × 16 mm (2.24 × 7.09 × 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

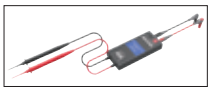
AC CLAMP METER CM4141-50

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 mesure 2000 V DC



ϕ55 mm =2.17 in

CM4141-50 New

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

Accessories



L9300 **C0203**

- LR03 Alkaline battery ×2
- Instruction manual

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

Product warranty for 3 years
Accuracy guaranteed for 1 year

Accessories



L9208



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

- 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



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 ×1
- 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 ×2
- 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 ×2
- 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
Measurement parameters	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

Other		
	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 Continuous operating time	Alkaline battery LR03 ×2 48 hours*4
	Dimensions(W × H × D)	65 × 247 × 35 mm (2.56 × 9.72 × 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

*1

Model		3280-10F	CM3289	CM3281・CM3291		Basic accuracy
Measurement items	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
		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
	AC Voltage	✔	✔	✔	4.200 V/42.00 V/420.0 V/600 V	±1.8% rdg ±7 dgt
	DC Voltage	✔	✔	✔	420.0 mV/4.200 V/42.00 V/420.0 V/600 V	±1.0% rdg ±3 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

Other		
	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 Continuous operating time	Coin type lithium battery CR2032 ×1 3280-10F, CM3281: 120 hours CM3289: 70 hours CM3291: 70 hours
	Dimensions (W × H × D)	3280-10F: 57 × 175 × 16 mm (2.24 × 6.89 × 0.63 in) CM3289: 57 × 181 × 16mm (2.24 × 7.13 × 0.63 in) CM3281, CM3291: 57 × 198 × 16 mm (2.24 × 7.80 × 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**

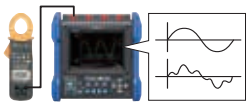
*1 Excludes 3280F *2 Excludes CM3289, CM3281, CM3291

Model		CM4001	CM4002・CM4003		Basic accuracy
Measurement items	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

Other		
	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 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
(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

AC Power

For more details

AC CLAMP POWER METER CM3286-50

Product warranty for 3 years
Accuracy guaranteed for 1 year

ϕ46 mm=1.81 in

CAT IV | DISPLAY HOLD | AUTO OFF | TRUE RMS | NCV | MIN/MAX | PEAK | FILTER | AUTO AC/DC | INRUSH



CM3286-50 New

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

Accessories



L9257



C0203

- LR03 Alkaline battery ×2
- Instruction manual

Order code **CM3286-50**

Order code **CM3286-90**

Model CM3286-90 includes Z3210 as a set

Measurement parameters	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: ±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: ±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: ±2.0% rdg ±3 dgt
	AC Current		6.000 A/60.00 A/600.0 A Basic accuracy: ±1.0% rdg ±3 dgt
	AC Voltage		600.0 V Basic accuracy: ±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
Other	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 Continuous operating 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)

*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.

Options



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



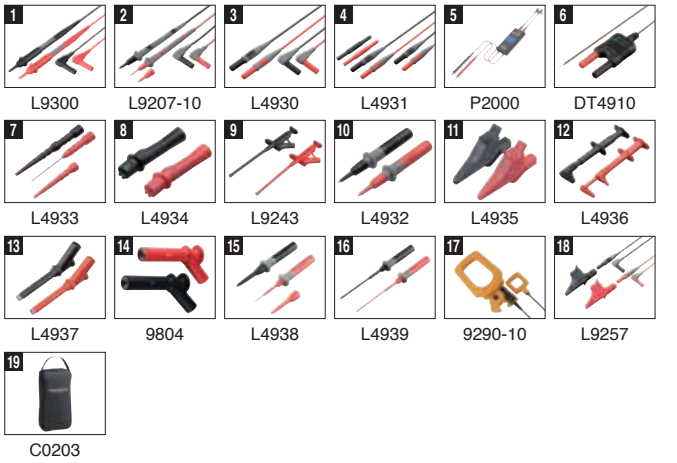


CM4371-50
CM4373-50
CM4375-50
CM4141-50
CM3286-50

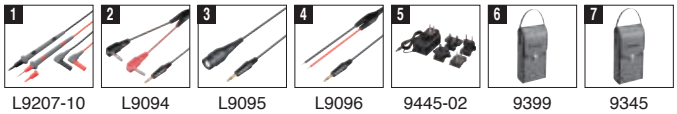
3280-10F, CM3289, CM3281, CM3291, 3287, 3288, 3288-20		
1	TEST LEAD L9208	
2	AC FLEXIBLE CURRENT SENSOR CT6280	For 3280-10F, CM3289, CM3281, CM3291
3	CONTACT PIN SET L4933	
4	SMALL ALLIGATOR CLIP SET L4934	
5	CARRYING CASE 9398	For 3280-10F, CM3289, 3287, 3288, 3288-20
6	CARRYING CASE C0205	Bundled accessory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



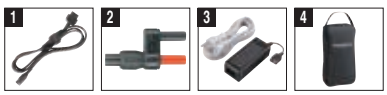
CM4371-50, CM4373-50, CM4375-50, CM4141-50, CM3286-50		
1	TEST LEAD L9300	
2	TEST LEAD L9207-10	
3	CONNECTION CABLE SET L4930	
4	EXTENSION CABLE SET L4931	
5	DC HIGH VOLTAGE PROBE P2000	
6	THERMOCOUPLES(K) DT4910	For CM437x-50 series, CM4141-50
7	CONTACT PIN SET L4933	
8	SMALL ALLIGATOR CLIP SET L4934	
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	



3284, 3285		
1	TEST LEAD L9207-10	3284, 3285 only, 90cm
2	OUTPUT CORD L9094	1.5m, Banana terminal
3	OUTPUT CORD L9095	1.5m, BNC terminal
4	OUTPUT CORD L9096	1.5m, Block terminal
5	AC ADAPTER 9445-02	
6	CARRYING CASE 9399	3284 only
7	CARRYING CASE 9345	3285 only



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



About the Marks

CAT	**Safety standard measurement categories***
	Drop proof Robust design capable of withstanding a drop from a height of 1 m onto concrete
	Backlight
AUTO OFF	**Auto power OFF** Automatically turns off after a certain time
DISPLAY HOLD	**Display hold**
TRUE 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
AUTO 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**
⊣⊢	**Capacitance**
°C	**Temperature**
~A	**ACA current**
⎓A	**DCA current**
~⎓A	**DCA + ACA**
⎓VA	**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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