HIOKI

AC/DC CLAMP METER
AC CLAMP METER
CM4000 series

Remarkable ease of use

Introducing a new design that's even easier to fit between cables in confined spaces



CM 4000 SERIES

Bluetooth°

Models with *Bluetooth*° support: CM4372, CM4374, CM4376, CM4142

CAT IV 600V









CM4375 CM4376

CM4141. CM4142

1.800.561.8187

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See it in action







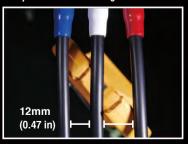


Easily Clamp Within Crowded Cables with New Jaw Design.
CM4141, CM4142, CM4375, CM4376

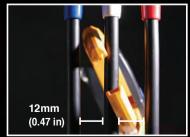
AC CLAMP METER CM4141, CM4142 AC 2000 A max, Core jaw diameter φ55 mm (2.17 in)

Get into the tightest gaps even with a large diameter clamp structure

Traditional design: thick jaws made it difficult to get between cables



New design: easily slide between narrow gaps with thin sensor



The large φ55mm clamp lets you measure higher currents up to 2000 A AC, yet still provides the ability to easily get into narrow gaps. Improve work efficiency especially when circuit breakers and terminal boxes are located in confined spaces.

Field-Proven Strength

Hioki measuring instruments have evolved as we've sought to engineer products that can withstand use in harsh and demanding environments. The CM4000 series has proven its capabilities against numerous performance tests to ensure even greater improvements in ruggedness, durability, and reliability. These tough clamp meters are designed to deliver ultimate safety and peace of mind.

Damage-resistant jaws

The new and improved design features stronger jaws (the current sensor portion of the instrument) and a dramatic boost in the duration of the warranty from 10,000 to 30,000 open-close cycles to ensure the instrument will provide even more years of reliable use. The CM4375, CM4376, CM4141 and CM4142 deliver the dual functionality of ease of clamping and resistance to damage.



Clamp open/ close test



In this test, the jaws are opened and closed a specified number of times at the rate of one cycle per second. In addition, the test is continued until the jaws break to provide a better understanding of their strength. Tests like this help us improve the instrument's durability.

Guaranteed for 30,000 open-close cycles

-25°C to + 65°C

Thanks to an operating temperature range that has been expanded from the previous design (which could be used from 0°C to 40°C), the CM4000 Series can be used in freezing temperatures or on the hottest summer days.



Temperature test



In this test, we verified that the clamp meter can operate for an extended period of time while taking normal measurement in the specified temperature range.

Expanded operating temperature range





Dustproof and waterproof performance

International Protection Code: IP54* *Jaws (current sensor portion): IP50

Measurement functionality is maintained despite exposure to sand or dust as well as water droplets.

Use the clamp meters with confidence in harsh and dusty environments such as saw mills and grain processing facilities, as well as work sites that operate welding equipment. (CM4141 and CM4142: IP50)



Dustproof and waterproof tests



In the dustproof test, the clamp meter's enclosure is placed under reduced pressure and exposed to dust, and in the waterproof test, the instrument is sprayed with water from multiple directions in order to investigate how readily dust and water

Enhanced environmental resistance

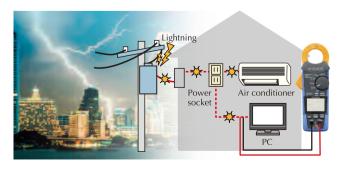
Caution: The CM4370 Series' waterproof enclosure is designed to enable the instrument to maintain its measurement functionality even when wet. Getting the instrument wet or measuring energized parts with wet hands increases risk of electric shock.

CAT IV 600 V

The CM4000 Series can safely measure service wires with a wire-to-ground voltage of up to 600 V as well as wires

The clamp meter series features a safe design that can withstand a transient overvoltage of 8 kV in case of a lightning







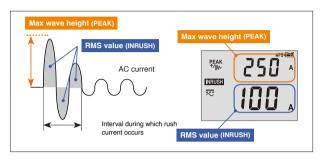
Giving shape to ease of use and intuitive operation

Assess transient currents at motor startup

The CM4000 Series can simultaneously measure inrush current in RMS as well as maximum crest values at motor startup and for welding currents.

The clamp meters automatically detect the duration of the inrush current (which can range from several dozen milliseconds to several hundred milliseconds) and measure the current during that interval, enabling them to yield more accurate measurements than standard clamp-on meters whose measurement interval is fixed to 100 ms.





Inrush trigger level

Model	Range	Current D	etection
CM4371, CM4372	600A	≥ +10 A	≤ -10 A
CM4373, CM4374	2000 A	≥ +100 A	≤ -100 A
CM4375, CM4376	1000 A	≥ +10 A	≤ -10 A
	60.00 A	≥ +2 A	≤ -2 A
CM4141, CM4142	600.0 A	≥ +10 A	≤ -10 A
	2000 A	≥ +100 A	≤ -100 A

Supported functionality

AC/DC/AC+DC: CM4371, CM4372, CM4373, CM4374

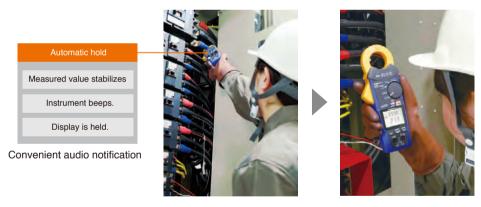
CM4375, CM4376 AC: CM4141, CM4142

Sampling frequency

RMS value and maximum wave height calculation: 4.8 kHz Smartphone waveform rendering: 2.4 kHz

Automatically hold display values

The clamp meters beep when the measured value stabilizes and then automatically hold the display value. This is useful when using the instrument in locations where it is difficult to see the display or press the hold button.



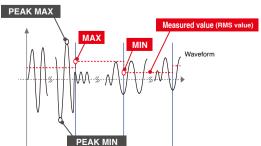
In locations where the display is out of view

Capture a stable reading

Assess fluctuating current values

The ability to identify the maximum, minimum, average, and crest maximum and minimum values for equipment like machine tools whose load current fluctuates is useful in preventive maintenance and quality control.



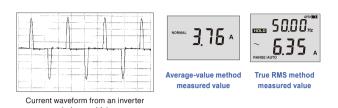




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Accurate testing assured

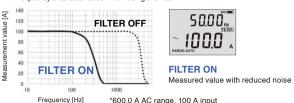
Get a correct reading of distorted waveforms with the True RMS method



Current waveforms are often distorted, causing the average-value and true RMS measurement methods to yield different results. To obtain accurate readings, RMS measurement is indispensable.

Low pass filter delivers stable measurement values

Frequency characteristics when using the filter*



Cutting the harmonic component serves to stabilize values, an approach that is useful when measuring the secondary side of a switching power supply or inverter.

CM4371, CM4372, CM4373, CM4374, CM4375, CM4376

Solar power system maintenance

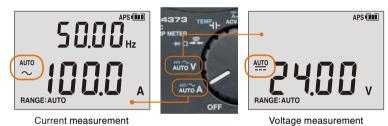
Automatically detect the signal when AC and DC are mixed

Simply rotate the rotary switch to the CURRENT MEASUREMENT or VOLTAGE MEASUREMENT function to take measurements after automatically detecting whether the signal is AC or DC.

Since this functionality eliminates the need to operate the rotary switch in locations where AC and DC wires are intermingled, it helps boost work efficiency.



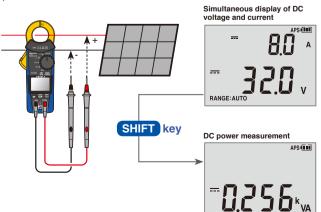
A mixture of AC and DC signals



*The CM4141 and CM4142 support automatic AC/DC detection for voltage measurement.

Simultaneous display of DC current and voltage, and display of DC power

During DC measurement, the clamp meter can simultaneously display current and voltage values. Press a button to read the power value.



Avoid missing DC wiring mistakes

If the DC voltage and DC current measured values are negative, the instrument will warn the user by sounding a beep and changing the backlight color. This functionality is useful when measuring no-load voltage and current in solar power systems. Thresholds: -10 V, -10 A



Convenient when you need to check a series of locations

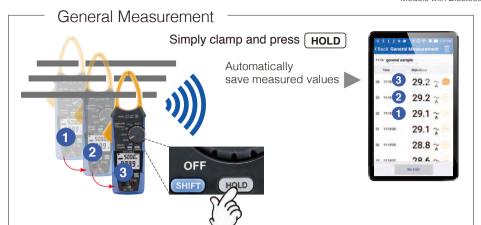


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Free app for tablets and smartphones X GENNECT Cross

Send measured values to a smartphone or tablet

Models with Bluetooth® support: CM4372, CM4374, CM4376, CM4142



GENNECT Cross

SF4071 (Application for iOS) SF4072 (Application for Android)

Software specifications

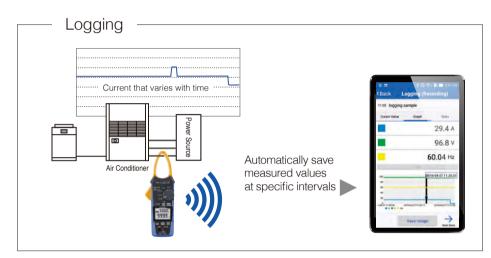
Interface: Bluetooth® 4.0LE

Communication distance: 10 m (line of sight), Varies with device performance and signal reception. Supported Android™ devices: Android™ 4.3 or later* Supported iOS devices: iOS 10 or later*

*Bluetooth® low energy enabled devices

No. of controllable devices

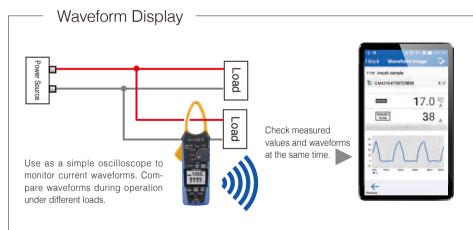
For data logging, up to 8 devices can be connected (up to 8 measured values can be logged) at once Only 1 device can be used with the current/ voltage waveform monitor and INRUSH waveform download function at any one time



Get the App



■ 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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- wireless operation is currently supported, please visit the Hioki

Augment Measured Values On Image



Instantly create reports and e-mail the data

Report creation function

Edit the measurement data and image data selected from the data list to instantly create a PDF-

format report.

Input a title. subtitle, recipient, creator, and corporate logo on the cover

E-mail transmission

Send the saved data via e-mail or easily share it on iCloud ™ or Drop box^{TM}

Data formats:

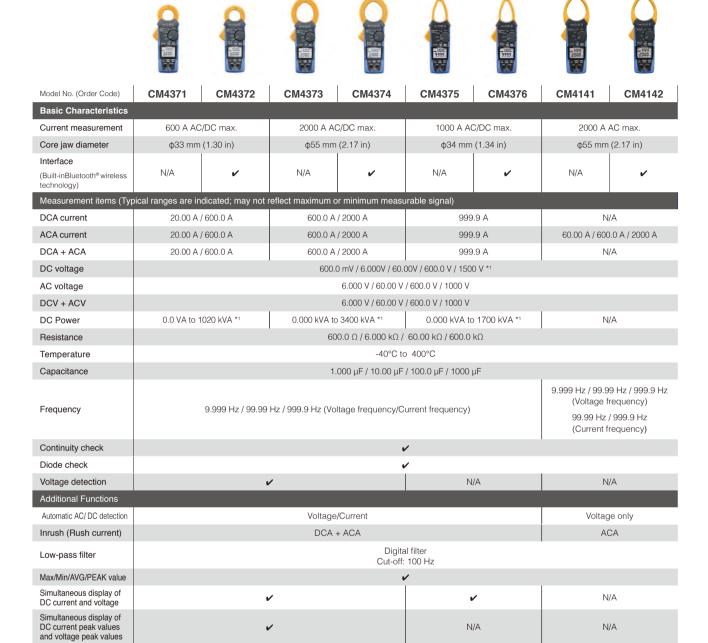
Measured values: CSV or .hok Image data: JPEG or .hok

".hok" refers to the HIOKI GENNECT

Use the .hok format to load data into the PC version of the free app,



CM4000 Series Basic Comparison



NEW

NEW

General Specifications

Auto hold

AC measurement method	True RMS measurement
Guaranteed accuracy period	1 year/ 2nd and 3rd year accuracy is 1.5 times the 1-year accuracy specifications and should be used for reference only.
Post-adjustment accuracy guaranteed	1 year
Guaranteed accuracy for temperature and humidity	23°C±5°C (73.0°F±9.0°F) 90% RH or less (no condensation)
Product warranty period	3 years (Measurement accuracy is defined in terms of a 1-year accuracy and a 3-year accuracy*.) "2nd and 3rd year accuracy values are for reference only. Number of sensor open/close cycles: 30,000
Functions	Automatic AC/ DC detection, DC current and DC voltage polarity detection function, Max/ Min/ AVG/ PEAK MAX/ PEAK MIN value display, Low-pass filter function, Display value hold, Auto hold, Backlight, Auto power save, Buzzer sound, Zero-adjustment
Display update rate	Measured value excluding electrostatic capacity, frequency, and temperature: 5 times/s (after the range is fixed) Electrostatic capacity: 0.5 to 5 times/s (The number of times varies depending on the capacitance.) Frequency: 0.3 to 5 times/s (The number of times varies depending

Operating environment	Indoors, pollution degree 2, altitude up to 2000 m (6562 ft.)
Operating temperature and humidity	-25°C to 65°C (-13.0°F to 149.0°F) 90% RH or less (no condensation)
Storage temperature and humidity	-30°C to 70°C (-22.0°F to 158.0°F) 90% RH or less (no condensation)
	CM4371, CM4372, CM4373, CM4374, CM4375, CM4376 IP20 (Measurement of voltage or current of a hazardous live conductor under completely dry conditions) IP50 (Measurement of resistance under completely dry conditions) IP54 (Storage or measurement of current of an insulated conductor)
Dust-proof and water-proof	CM4141, CM4142 IP20 (Measurement of voltage or current of a hazardous live conductor under completely dry conditions) IP50 (Measurement of resistance or current of an insulated conductor under completely dry conditions) "Grip provides IP54-equivalent dustproof and waterproof protection when instrument is not being used to measure.
Maximum terminal-to- terminal rated voltage	1000 V AC (up to 1 kHz) /1700 V DC*1

1.800.561.8187



CM4371, CM4372 Measurement specifications

Measurement accuracy pertains to 1-year accuracy specifications Figures in parentheses for ranges indicate the guaranteed accuracy range.

AC Current

Range	Resolution	Accuracy guarantee frequency range	Measurement accuracy
20.00 A		10 Hz ≤ f <45 Hz	±1.8% rdg. ±0.10 A
(1.00 A to	0.01 A	45 Hz ≤ f ≤66 Hz	±1.3% rdg. ±0.08 A
20.00 A)		66 Hz < f ≤1 kHz	±2.0% rdg. ±0.10 A
600.0 A		10 Hz ≤ f <45 Hz	±1.8% rdg. ±0.5 A
(1.0 A to	0.1 A	45 Hz ≤ f ≤66 Hz	±1.3% rdg. ±0.3 A
600.0 A)		66 Hz < f ≤1 kHz	±2.0% rdg. ±0.5 A

DC Current

Range	Resolution	Measurement accuracy
20.00 A (±1.00 A to ±20.00 A)	0.01 A	±1.3% rdg. ±0.08 A
600.0 A (±1.0 A to ±600.0 A)	0.1 A	±1.3% rdg. ±0.3 A

DC Power *1

Display range switching	Resolution	Measurement accuracy
0.0 VA to 1020 kVA*2	0.1 VA	±2.0% rdg. ±20 dgt.

^{*2} Your instrument can be used to measure voltages in excess of 1000 V DC if and only if both of the following conditions are satisfied:1. The circuit under measurement is isolated from the commercial power grid. 2. The circuit under measurement is isolated from ground.

CM4373, CM4374 Measurement specifications

Measurement accuracy pertains to 1-year accuracy specifications Figures in parentheses for ranges indicate the guaranteed accuracy range.

AC Current

Range	Resolution	Accuracy guarantee frequency range	Measurement accuracy
600.0 A		10 Hz ≤ f <45 Hz	±1.8% rdg. ±0.5 A
(1.0 A to	0.1 A	45 Hz ≤ f ≤66 Hz	±1.3% rdg. ±0.3 A
600.0 A)*		66 Hz < f ≤1 kHz	±2.0% rdg. ±0.5 A
2000 A		10 Hz ≤ f <45 Hz	±1.8% rdg. ±5 A
(10 A to	1 A	45 Hz ≤ f ≤66 Hz	±1.3% rdg. ±3 A
1800 A)		66 Hz < f ≤1 kHz	±2.0% rdg. ±5 A
2000 A		10 Hz ≤ f <45 Hz	±2.8% rdg. ±5 A
(1801 A to	1 A	45 Hz ≤ f ≤66 Hz	±2.3% rdg. ±3 A
2000 A)		66 Hz < f ≤1 kHz	-

*For currents of 30.0 A or less, add 0.5 A to the measurement accuracy

DC Current

Range	Resolution	Measurement accuracy
600.0 A (±1.0 A to ±600.0 A)*	0.1 A	±1.3% rdg. ±0.3 A
2000 A (±10 A to ±2000 A)	1 A	±1.3% rdg. ±3 A

*For currents of 30.0 A or less, add 0.5 A to the measurement accuracy

DC Power *1

Display range switching	Resolution	Measurement accuracy
0.000 kVA to 3400 kVA*2 (Automatically switched based on voltage range)	1 VA	±2.0% rdg. ±20 dgt.

*1 Current: Fixed to 2000 A range
*2 Your instrument can be used to measure voltages in excess of 1000 V DC if and only if both of the following conditions are satisfied:1. The circuit under measurement is isolated from the commercial power grid.

2. The circuit under measurement is isolated from ground.

CM4375, CM4376 Measurement specifications

Measurement accuracy pertains to 1-year accuracy specifications

AC Current

Range	guaranteed accuracy range (Resolution)	Accuracy guarantee frequency range	Measurement accuracy
	1.0 A to 30.0 A	10 Hz ≤ f <45 Hz	±1.8% rdg. ±1.0 A
	(0.1 A)	45 Hz ≤ f ≤66 Hz	±1.3% rdg. ±0.8 A
		66 Hz < f ≤1 kHz	±2.0% rdg. ±1.0 A
	30.1 A to 900.0 A	10 Hz ≤ f <45 Hz	±1.8% rdg. ±0.5 A
1000 A	(0.1 A)	45 Hz ≤ f ≤66 Hz	±1.3% rdg. ±0.3 A
		66 Hz < f ≤1 kHz	±2.0% rdg. ±0.5 A
	900.1 A to 999.9 A	10 Hz ≤ f <45 Hz	±2.3% rdg. ±0.5 A
	(0.1 A)	45 Hz ≤ f ≤66 Hz	±1.8% rdg. ±0.3 A
		66 Hz < f ≤1 kHz	±2.5% rdg. ±0.5 A

DC Current

Range	guaranteed accuracy range	Resolution	Measurement accuracy
1000 A	±1.0 A to ±30.0 A	0.1 A	±1.3% rdg. ±0.8 A
1000 A	30.1 A to 999.9 A	0.1 A	±1.3% rdg. ±0.3 A

DC Power (Current: Fixed to 1000 A range)

Display range switching	Resolution	Measurement accuracy
0.000 kVA to 1700 kVA*2	0.001 kVA	±2.0% rdg. ±20 dgt.
(Automatically switched based on voltage range)	0.001 KVA	+4.0% rda +20 dat *1

DC+AC Current

Range	Resolution	Accuracy guarantee frequency range	Measurement accuracy
20.00 A		10 Hz ≤ f <45 Hz	±1.8% rdg. ±0.10 A
(1.00 A to	0.01 A	DC, 45 Hz ≤ f ≤66 Hz	±1.3% rdg. ±0.13 A
20.00 A)		66 Hz < f ≤1 kHz	±2.0% rdg. ±0.10 A
600.0 A		10 Hz ≤ f <45 Hz	±1.8% rdg. ±0.7 A
(1.0 A to 600.0 A)		DC, 45 Hz ≤ f ≤66 Hz	±1.3% rdg. ±1.3 A
		66 Hz < f ≤1 kHz	±2.0% rdg. ±0.7 A

General Specifications

•	
Current measurement	600 A AC/DC max.
Core jaw diameter	ф33 mm (1.30 in)
Crest factor	For the 20.00 A range, 7.5 For the 600.0 A range (500.0 A or less), 3 For the 600.0 A range (greater than 500.0 A and less than or equal to 600.0 A), 2.5
Power supply	LR03 Alkaline battery ×2
Continuous use	Approx. 24 hours (Backlight OFF, Bluetooth® ON) Approx. 45 hours (Backlight OFF, Bluetooth® OFF)
Dimensions, Mass	Approx. 65 mm (2.56 in) W \times 215 mm (8.46 in) H \times 35 mm (1.38 in) D mm, 340 g (12.0 oz)
Core jaw diameter	69 mm (2.72 in) W×14 mm (0.55 in)

DC+AC Current

DOTAG GUITCIN				
Range	Resolution	Accuracy guarantee frequency range	Measurement accuracy	
600.0 A		10 Hz ≤ f <45 Hz	±1.8% rdg. ±0.7 A	
(1.0 A to	0.1 A	DC, 45 Hz ≤ f ≤66 Hz	±1.3% rdg. ±1.3 A	
600.0 A)		66 Hz < f ≤1 kHz	±2.0% rdg. ±0.7 A	
2000 A (10 A to 1 800 A)		10 Hz ≤ f <45 Hz	±1.8% rdg. ±7 A	
	1 A	DC, 45 Hz ≤ f ≤66 Hz	±1.3% rdg. ±13 A	
		66 Hz < f ≤1 kHz	±2.0% rdg. ±7 A	
2000 A		10 Hz ≤ f <45 Hz	±2.8% rdg. ±7 A	
(1801 A to 2000 A)	1 A	DC, 45 Hz ≤ f ≤66 Hz	±2.3% rdg. ±13 A	
		66 Hz < f ≤1 kHz	-	

General Specifications

•	
Current measurement	2000 A AC/DC max.
Core jaw diameter	ф55 mm (2.17 in)
Crest factor	For the 600.0 A range (500.0 A or less), 3 For the 600.0 A range (greater than 500.0 A and less than or equal to 600.0 A), 2.5 For the 2000 A range (1000 A or less), 2.84 For the 2000 A range (greater than 1000 A and less than or equal to 2000 A), 1.42
Power supply	LR03 Alkaline battery ×2
Continuous use	Approx. 24 hours (Backlight OFF, <i>Bluetooth®</i> ON) Approx. 45 hours (Backlight OFF, <i>Bluetooth®</i> OFF)
Dimensions, Mass	Approx. 65 mm (2.56 in) Wx250 mm (9.84 in) Hx35 mm (1.38 in) D mm, 530 g (18.7 oz)
Core jaw diameter	92 mm (3.62 in) W×18 mm (0.71 in)

DC+AC Current

Range	guaranteed accuracy range (Resolution)	Accuracy guarantee frequency range	Measurement accuracy
	1.0 A to 30.0 A	10 Hz ≤ f <45 Hz	±1.8% rdg. ±1.2 A
	(0.1 A)	DC, 45 Hz ≤ f ≤66 Hz	±1.3% rdg. ±1.8 A
		66 Hz < f ≤1 kHz	±2.0% rdg. ±1.2 A
	30.1 A to 900.0 A	10 Hz≤ f <45 Hz	±1.8% rdg. ±0.7 A
1000 A	(0.1 A)	DC, 45 Hz ≤ f ≤66 Hz	±1.3% rdg. ±1.3 A
		66 Hz < f ≤1 kHz	±2.0% rdg. ±0.7 A
		10 Hz≤ f <45 Hz	±2.3% rdg. ±0.7 A
	900.1 A to 999.9 A	DC, 45 Hz ≤ f ≤66 Hz	±1.8% rdg. ±1.3 A
	(0.1 A)	66 Hz < f ≤1 kHz	±2.5% rdg. ±0.7 A

General Specifications

Current measurement	1000 A AC/DC max.
Core jaw diameter	ф34 mm (1.34 in)
Crest factor	For the 1000 A range, 1.5
Power supply	LR03 Alkaline battery ×2
Continuous use	Approx. 20 hours (Backlight OFF, Bluetooth® ON) Approx. 40 hours (Backlight OFF, Bluetooth® OFF)
Dimensions, Mass	Approx. 65 mm (2.56 in) Wx242 mm (9.53 in) Hx35 mm (1.38 in) D mm, 330 g (11.6 oz)
Core jaw diameter	53 mm (2.09 in) W×20 mm (0.79 in)



CM4141 CM4142 Measurement specifications

General Specifications

Current measurement	2000 A AC max.		
Core jaw diameter	ф55 mm (2.17 in)		
Crest factor	For the 60.00 A range (50.00 A or less), 3 For the 60.00 A range (greater than 50.00 A and less than or equal to 60.00 A), 2.5 For the 600.0 A range (500.0 A or less), 3 For the 600.0 A range (greater than 500.0 A and less than or equal to 600.0 A), 2.5 For the 2000 A range (2000 A or less), 1.5		
Power supply	LR03 Alkaline battery ×2		
Continuous use	Approx. 24 hours (Backlight OFF, Bluetooth® ON) Approx. 48 hours (Backlight OFF, Bluetooth® OFF)		
Dimensions, Mass	Approx. 65 mm (2.56 in) W \times 247 mm (9.72 in) H \times 35 mm (1.38 in) D mm, 300 g (10.6 oz)		
Core jaw diameter	82 mm (3.23 in) W×11 mm (0.43 in) D (Depth figure indicates value within 44 mm of tip.)		
Smallest dimension of jaw cross-section	11 mm (0.43 in) (Figure indicates value within 44 mm of jaw tip.)		

AC Current

Range	Resolution	Accuracy guarantee frequency range	Measurement accuracy
60.00 A		45 Hz ≤ f ≤ 66 Hz	±1.5% rdg.±0.08 A
(1.00 A to 60.00 A)	0.01 A	30 Hz ≤ f < 45 Hz, 66 Hz < f ≤ 1 kHz	±2.0% rdg.±0.10 A
600.0 A		45Hz ≤ f ≤ 66Hz	±1.5% rdg.±0.3 A
(1.0 A to 600.0 A)	0.1 A	30Hz ≤ f < 45Hz, 66Hz < f ≤ 1kHz	±2.0% rdg.±0.5 A
2000 A		45Hz ≤ f ≤ 66Hz	±1.5% rdg.±3A
(10 A to 2000 A)	1 A	30Hz ≤ f<45Hz, 66Hz <f 1khz<="" td="" ≤=""><td>±2.0% rdg.±5A</td></f>	±2.0% rdg.±5A

Shared measurement specifications

AC Voltage

Range	Resolution	Accuracy guarantee frequency range	Measurement accuracy	Input impedance
6.000 V		15 Hz ≤ f <45 Hz	±1.5% rdg. ±0.015 V	
(0.000 V to	0.001 V	45 Hz ≤ f ≤66 Hz	±0.9% rdg. ±0.013 V	
0.299 V)		66 Hz < f ≤1 kHz	±1.5% rdg. ±0.015 V	3.2 MΩ±5%
6.000 V		15 Hz ≤ f <45 Hz	±1.5% rdg. ±0.005 V	3.2 IVIL1±3%
(0.300 V to	0.001 V	45 Hz ≤ f ≤66 Hz	±0.9% rdg. ±0.003 V	
6.000 V)		66 Hz < f ≤1 kHz	±1.5% rdg. ±0.005 V	
60.00 V		15 Hz ≤ f <45 Hz	±1.5% rdg. ±0.05 V	
(3.00 V to	0.01 V	45 Hz ≤ f ≤66 Hz	±0.9% rdg. ±0.03 V	3.1 MΩ±5%
60.00 V)		66 Hz < f ≤1 kHz	±1.5% rdg. ±0.05 V	
600.0 V		15 Hz ≤ f <45 Hz	±1.5% rdg. ±0.5 V	
(30.0 V to	0.1 V	45 Hz ≤ f ≤66 Hz	±0.9% rdg. ±0.3 V	
600.0 V)		66 Hz < f ≤1 kHz	±1.5% rdg. ±0.5 V	0.0 MO . F0/
1000 V		15 Hz ≤ f <45 Hz	±1.5% rdg. ±5 V	3.0 MΩ±5%
(50 V to	1 V	45 Hz ≤ f ≤66 Hz	±0.9% rdg. ±3 V	
1000 V)		66 Hz < f ≤1 kHz	±1.5% rdg. ±5 V	

Frequency range of 15 Hz≤f<20 Hz is designed value

DC Voltage

Range	Resolution	Measurement accuracy	Input impedance
600.0 mV (0.0 mV to ±600.0 mV)	0.1 mV	±0.5% rdg. ±0.5 mV	
6.000 V	0.001 V	±0.5% rdg. ±0.003 V	6.7 MΩ±5%
(0.000 V to ±6.000 V) 60.00 V	0.01 V	±0.5% rdg. ±0.03 V	6.1 MO+5%
(0.00 V to ±60.00 V) 600.0 V		<u> </u>	0.1 11112070
(0.0 V to ±600.0 V)		±0.5% rdg. ±0.3 V	
1500 V (0 V to ±1000 V)	1 V	±0.5% rdg. ±3 V	6.0 MΩ±5%
1500 V * (±1001 V to ±1700 V)	1 V	±2.0% rdg. ±5 V	

^{*} Your instrument can be used to measure voltages in excess of 1000 V DC if and only if both of the following conditions are satisfied: 1. The circuit under measurement is isolated from the commercial power grid. 2. The circuit under measurement is isolated from ground.

DC+AC Voltage

Range	Resolution	Accuracy guarantee frequency range	Measurement accuracy	Input impedance
6.000 V		10 Hz ≤ f <45 Hz	±1.5% rdg. ±0.023 V	
(0.000 V to	0.001 V	DC, 45 Hz ≤ f ≤66 Hz	±1.0% rdg. ±0.023 V	
0.299 V)		66 Hz < f ≤1 kHz	±1.5% rdg. ±0.023 V	DC: 6.7 MΩ±5%
6.000 V		10 Hz ≤ f <45 Hz	±1.5% rdg. ±0.013 V	AC: 3.2 MΩ±5%
(0.300 V to	0.001 V	DC, 45 Hz ≤ f ≤66 Hz	±1.0% rdg. ±0.013 V	
6.000 V)		66 Hz < f ≤1 kHz	±1.5% rdg. ±0.013 V	
60.00 V		10 Hz ≤ f <45 Hz	±1.5% rdg. ±0.13 V	DC: 6.1 MO+5%
(3.00 V to	0.01 V	DC, 45 Hz ≤ f ≤66 Hz	±1.0% rdg. ±0.13 V	
60.00 V)		66 Hz < f ≤1 kHz	±1.5% rdg. ±0.13 V	AC: 3.1 MΩ±5%
600.0 V		10 Hz ≤ f <45 Hz	±1.5% rdg. ±0.7 V	
(30.0 V to	0.1 V	DC, 45 Hz ≤ f ≤66 Hz	±1.0% rdg. ±0.7 V	
600.0 V)		66 Hz < f ≤1 kHz	±1.5% rdg. ±0.7 V	DC: 6.0 MΩ±5%
1000 V		10 Hz ≤ f <45 Hz	±1.5% rdg. ±7 V	AC: 3.0 MΩ±5%
(50 V to	1 V	DC, 45 Hz ≤ f ≤66 Hz	±1.0% rdg. ±7 V	
1000 V)		66 Hz < f ≤1 kHz	±1.5% rdg. ±7 V	

Frequency range of 10 Hz≤f<20 Hz is designed value

AC Voltage detection function (CM4371, CM4372, CM4373, CM4374)

Frequency

Range	Resolution	Measurement accuracy
9.999 Hz (1.000 Hz to 9.999 Hz)	0.001 Hz	±0.1% rdg. ±0.003 Hz
99.99 Hz (1.00 Hz to 99.99 Hz)	0.01 Hz	±0.1% rdg. ±0.01 Hz
999.9 Hz (1.0 Hz to 999.9 Hz)	0.1 Hz	±0.1% rdg. ±0.1 Hz

The CM4141 and CM4142 have two current frequency ranges (30.00 Hz to 99.99 Hz, 30.0 Hz to 999.9 Hz). Add \pm -0.2 Hz to the accuracy uncertainty when using the 999.9 Hz range.

- Frequency detection range of AC current

 CM4371, CM4372: 20.00 A range 4.00 A or more, 600.0 A range 20.0 A or more

 CM4373, CM4376: 600.0 A range 40.0 A or more, 2000 A range 200 A or more

 CM4375, CM4376: 1000 A range 5.0 A or more

 CM4141, CM4142: 60.00 A range 3.00 A or more, 600.0 A range 30.0 A or more

 2000 A range 200 A or more

The AC voltage frequency detection range is 10% of each range's full scale

Continuity check

Range	Resolution	Measurement current	Measurement accuracy	Open terminal voltage
600.0 Ω (0.0 Ω to 600.0 Ω)	0.1 Ω	200 μA±20%	±0.7% rdg. ±0.5 Ω	2.0 V DC or less

Continuity on threshold: 25 $\Omega \pm 10~\Omega$, Continuity off threshold: 245 $\Omega \pm 10~\Omega$

Diode

Range	Resolution	Short-circuit current	Measurement accuracy	Open terminal voltage
1.800 V (0.000 V to 1.800 V)	0.001 V	200 μA ±20%	±0.7% rdg. ±0.005 V	2.0 V DC or less

Beeping buzzer tone at forward connection (0.15 V to 1.8 V)

Resistance

Range	Resolution	Measurement current	Measurement accuracy	Open terminal voltage
600.0 Ω	0.1 Ω	200 μA±20%	±0.7% rdg. ±0.5 Ω	
$(0.0~\Omega$ to $600.0~\Omega)$	0.1 12	200 µA±20 %	±0.7 % Tug. ±0.3 12	
6.000 kΩ	0.001 kΩ	100 μA±20%	±0.7% rdg. ±0.005 kΩ	
(0.000 k Ω to 6.000 k Ω)	0.001 K12	100 µA±20 %	±0.7 % Tug. ±0.003 K12	2.0 V DC or
60.00 kΩ	0.01 kΩ	10 μA±20%	±0.7% rdg. ±0.05 kΩ	less
$(0.00 \text{ k}\Omega \text{ to } 60.00 \text{ k}\Omega)$	U.U1 K12	10 μΑ±20 /6	±0.7 % Tug. ±0.03 Kt2	
600.0 kΩ	0.1 kΩ	1 μA±20%	±0.7% rdg. ±0.5 kΩ	
(0.0 kΩ to 600.0 kΩ)	U. I N12	Ι μπ±20 /6	±0.7 % Tug. ±0.5 K12	

Electrostatic capacity

Range	Resolution	Discharge current	Measurement accuracy	Open terminal voltage
1.000 µF	0.001 µF	10n/ 100n/ 1μA	±1.9% rdg. ±0.005 µF	
(0.000 μF to 1.100 μF)	0.001 μι	±20%	±1.3 % rug. ±0.003 μι	2.0 V DC or less
10.00 μF	0.01 µF	100n/ 1μ/ 10μA	±1.9% rdg. ±0.05 µF	
(0.00 μF to 11.00 μF)	υ.υ τ μι	±20%	± 1.9% rag. ±0.05 μr	
100.0 μF	0.1	1μ/ 10μ/ 100μΑ	±1.9% rdg. ±0.5 µF	
(0.0 μF to 110.0 μF)	0.1 µF	±20%	±1.9% rag. ±0.5 μF	
1000 μF	1	10μ/ 100μ/	1 00/ rda . F F	
(0 μF to 1100 μF)	1 μF	200μA ±20%	±1.9% rdg. ±5 μF	

Temperature

	Thermocouple type	Range	Resolution	Accuracy
	V	-40.0°C to 400.0°C	0.1°C	±0.5% rdg. ±3.0°C
	N	-40.0°F to 752.0°F	0.1°F	±0.5% rdg. ±5.4°F



Order code/ Options

AC/ DC CLAMP METER

Model No. (Order Code) (Note)

CM4371

CM4372 Built in Bluetooth® wireless technology

CM4373

CM4374 Built in Bluetooth® wireless technology

CM4375

CM4376 Built in Bluetooth® wireless technology

AC CLAMP METER

Model No.

(Order Code) (Note)

CM4141

CM4142 Built in Bluetooth® wireless technology

Accessories:

TEST LEAD L9207-10. CARRYING CASE C0203 LR03 Alkaline battery ×2, Instruction Manual

Precautions Concerning Use,

Precautions Concerning Use of Equipment That Emits Radio Waves

(only for CM4372, CM4374, CM4376, CM4142)

■ TEST LEAD L9207-10 Options



Cable length 90 cm (2.95 ft) with one each red and black caps with cap CAT IV 600 V CAT III 1000 V

without cap

L4933 and L4934 probe tips (at right) can be used on L9207-10 Test Leads.









CAT II 600 V

SMALL ALLIGATOR CLIP SET L4934

CONNECTION CABLE L4930 Options





TEST PIN SET L4938





BREAKER PIN SET L4939



ALLIGATOR CLIP SET



TEST PIN SET L4932



BUS BAR CLIP SET L4936



GRABBER CLIP 9243



MAGNETIC ADAPTER SET L4937



MAGNETIC ADAPTER 9804



Other options



CARRYING CASE C0203



(K) DT4910

- Thermal junction form: exposed weld Sensor length; approx, 800 mm
- Measurement temperature range: -40 to 260°C
- · Allowable tolerance:±2.5°C
- THERMOCOUPLES Operating temperature range:
 - -15 to 55°C

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