

**CM4371  
CM4372  
CM4373  
CM4374**

**AC/DC CLAMP METER**

**HIOKI**

Instruction Manual



**Video**

Scan this code to watch an instructional video.  
Carrier charges may apply.



**EN**

Feb. 2021 Edition 1  
CM4371A971-00 21-02H





## Operating Precautions

### **WARNING**

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.  
e.g.: when measuring the no-load voltage of an ungrounded PV panel

Do not use the instrument with circuits whose terminal-to-ground voltage exceeds 1000 V. Doing so may result in electric shock.



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# Introduction

Thank you for purchasing the Hioki CM4371, CM4372, CM4373, CM4374 AC/DC Clamp Meter. To obtain maximum performance from the instrument, please read this manual first, and keep it handy for future reference.

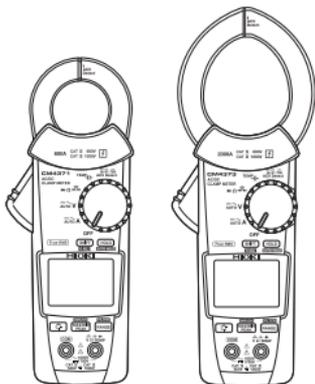
This instrument is a clamp meter that can perform true RMS measurement of current simply by clamping it around a circuit. In addition to current, it provides voltage measurement, frequency measurement, rush current measurement, resistance measurement, diode measurement, capacitance measurement, temperature measurement, voltage detection, and DC power measurement.

The CM4372 and CM4374 also provide Bluetooth communications functionality, allowing measurement data to be monitored and logged from a smartphone or tablet.

## Introduction

### Package contents

AC/DC Clamp Meter



L9207-10 Test lead



C0203 Carrying Case



LR03 Alkaline battery × 2



Instruction Manual\*



Precautions Concerning Use of Equipment That Emits Radio Waves (only for CM4372, CM4374)



\* Instruction manuals may also be available in other languages. Please visit our website at <http://www.hioki.com>

### Trademark

- Bluetooth® is a registered trademark of Bluetooth SIG, Inc.(USA). The trademark is used by HIOKI E.E. CORPORATION under license.
- Android and Google Play are registered trademarks of Google, Inc.
- IOS is a registered trademark of Cisco in the U.S. and other countries.
- iPhone, iPad, iPad mini, iPad Pro, and iPod Touch are trademarks of Apple Inc.
- The App Store is a service mark of Apple Inc.

## Options (sold separately)



L9207-10 Test Lead \*1

L4930 Connection Cable Set \*2  
(Length: 1.2 m)L4931 Extension Cable Set \*2  
(Length: 1.5 m, with the coupling connector)

DT4910 Thermocouples (K)



C0203 Carrying Case



L4933 Contact Pin Set \*6



L4934 Small Alligator Clip Set \*5



L4935 Alligator Clip Set \*2



L9243 Grabber Clip \*9



L4936 Bus Bar Clip Set \*4



L4937 Magnetic Adapter Set \*3



9804 Magnetic Adapter \*8



L4932 Test Pin Set \*1



L4938 Test Pin Set \*7



L4939 Breaker Pin Set \*4

\*1: CAT IV 600 V/ CAT III 1000 V/ CAT II 1000 V, 10 A

\*2: CAT IV 600 V/ CAT III 1000 V, 10 A

\*3: CAT III 1000 V, 2 A

\*4: CAT III 600 V, 5 A

\*5: CAT III 300 V/ CAT II 600 V, 3 A

\*6: 30 V AC/ 60 V DC, 3 A

\*7: CAT III 600 V/ CAT II 600 V, 10 A

\*8: CAT IV 1000 V, 2 A

\*9: CAT II 1000 V, 1 A

## Safety Notes

This instrument is designed to conform to IEC 61010 Safety Standards, and has been thoroughly tested for safety prior to shipment. However, using the instrument in a way not described in this manual may negate the provided safety features.

Before using the instrument, be certain to carefully read the following safety notes.

### DANGER



**Mishandling during use could result in injury or death, as well as damage to the instrument. Be certain that you understand the instructions and precautions in the manual before use.**

### WARNING



**With regard to the electricity supply, there are risks of electric shock, heat generation, fire, and arc flash due to short circuits. If persons unfamiliar with electricity measuring instruments are to use the instrument, another person familiar with such instruments must supervise operations.**

 **WARNING**
**Protective gear**

This instrument is measured on a live line. To prevent electric shock, use insulated protective wear such as rubber gloves and rubber boots designed for electrical work as well as a safety helmet as required by occupational health and safety regulations.

**Notation**

In this document, the risk seriousness and the hazard levels are classified as follows.

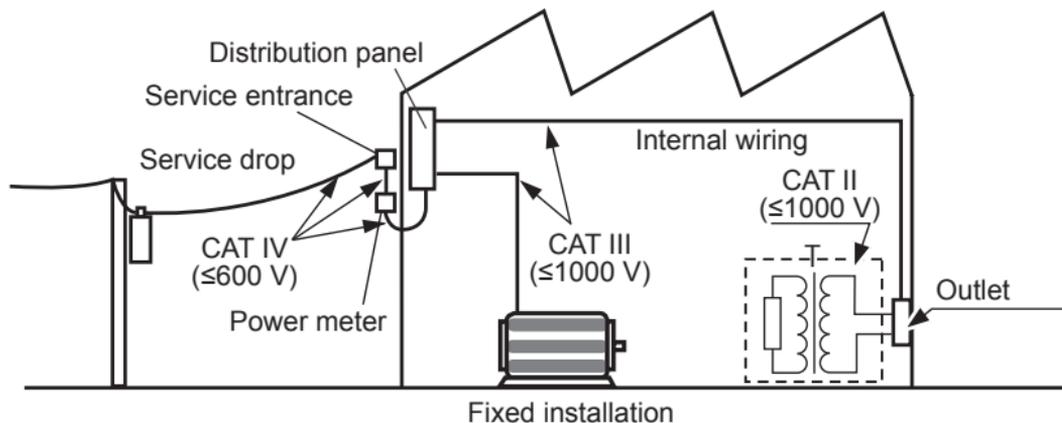
 <b>DANGER</b>	Indicates an imminently hazardous situation that will result in death or serious injury to the operator.	<b>IMPORTANT</b>	Indicates information related to the operation of the instrument or maintenance tasks with which the operators must be fully familiar.
 <b>WARNING</b>	Indicates a potentially hazardous situation that may result in death or serious injury to the operator.		Indicates prohibited actions.
 <b>CAUTION</b>	Indicates a potentially hazardous situation that may result in minor or moderate injury to the operator or damage to the instrument or malfunction.		Indicates the action which must be performed.

## Symbols affixed to the instrument

	Indicates cautions and hazards. When the symbol is printed on the instrument, refer to a corresponding topic in the Instruction Manual.		Indicates DC (Direct Current) or AC (Alternating Current).
	Indicates that dangerous voltage may be present at this terminal.		Indicates DC (Direct Current).
	Indicates that the instrument may be connected to or disconnected from a live conductor.		Indicates a grounding terminal.
	Indicates a instrument that has been protected throughout by double insulation or reinforced insulation.		Indicates the Waste Electrical and Electronic Equipment Directive (WEEE Directive) in EU member states.
	Indicates that the product incorporates Bluetooth® wireless technology.		Indicates that the product conforms to regulations set out by the EU Directive.

## Measurement categories

This instrument conforms to the safety requirements for CAT III 1000 V, CAT IV 600 V measuring instruments.



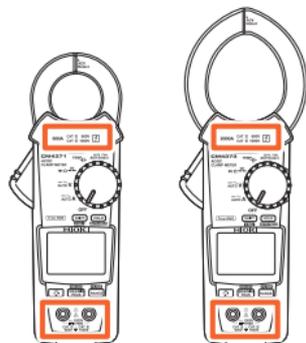
## Usage Notes

Follow these precautions to ensure safe operation and to obtain the full benefits of the various functions.

### DANGER



Do not input a voltage or current in excess of the measurement range indicated by the ratings and specifications shown on instrument labeling. Doing so may damage the instrument or cause it to become hot, resulting in bodily injury.



To prevent an electric shock, confirm that the white portion (insulation layer) inside the cable is not exposed. If a color inside the cable is exposed, do not use the cable.

 **WARNING**

Do not allow the instrument to get wet, and do not take measurements with wet hands. This may cause an electric shock.

To prevent electric shock, when measuring the voltage of a power line use a test lead that satisfies the following criteria:



- Conforms to safety standards IEC61010 or EN61010
- Of measurement category III or IV
- Its rated voltage is higher than the voltage to be measured

The optional test leads for this instrument conform to the safety standard EN61010. Use a test lead in accordance with its defined measurement category and rated voltage.

 **CAUTION**

Do not drop the instrument or subject it to excessive mechanical shock. Doing so may damage the surfaces at the tips of the clamp sensor's jaws, adversely affecting measurement.

## Current measurement precautions

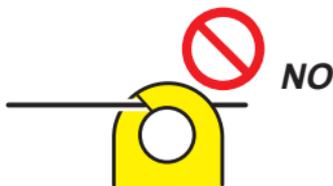
**Do not touch.**



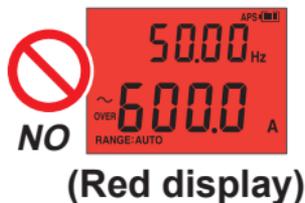
**Do not clamp  
around two wires.**



**Do not pinch wire  
between jaws.**

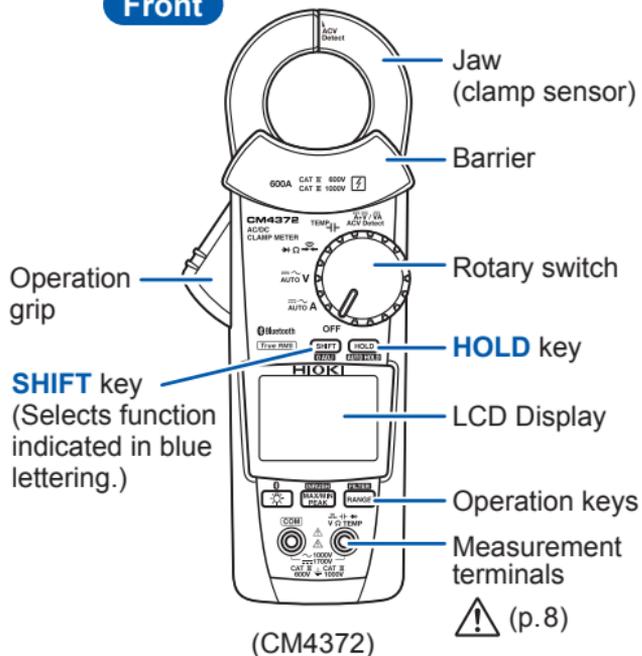


**Do not input  
excessively high  
currents.**

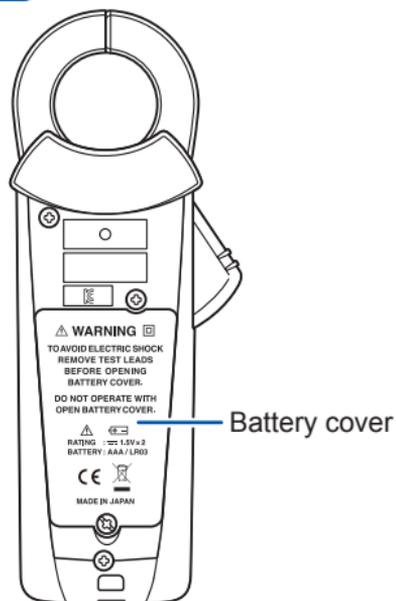


# Part Names

Front



Rear



## Insert/Replace Batteries

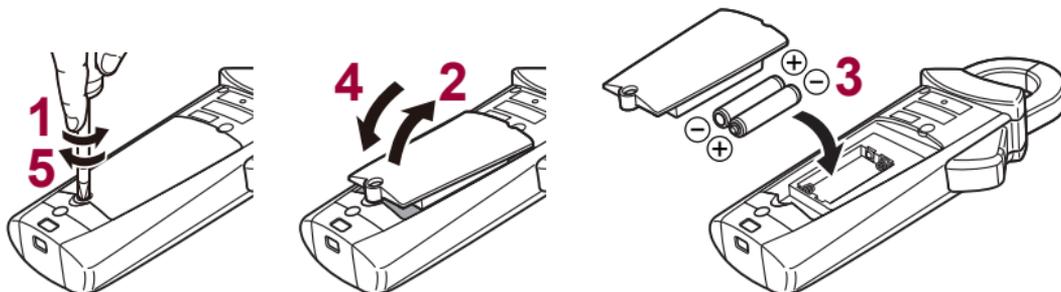
### **WARNING**



- To prevent electric shock, disconnect test leads before inserting or replacing the batteries.
- Handle and dispose of batteries in accordance with local regulations.
- To prevent instrument damage or electric shock, use only the screw for securing the battery cover in place that are originally installed. If you have lost a screw or find that a screw is damaged, please contact your Hioki distributor for a replacement.

- The  indicator lights up when the battery charge diminishes. Replace the batteries as soon as possible.  
The batteries may die if the backlight turns on or the buzzer sounds.
- After use, be sure to turn off the instrument.

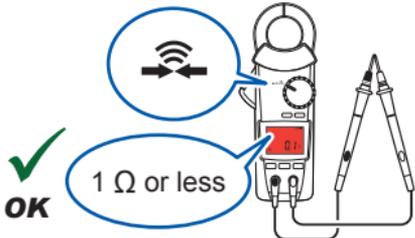
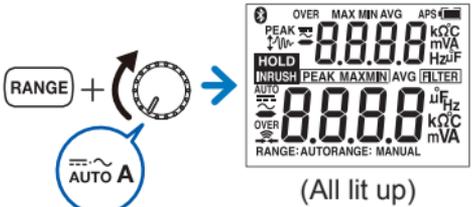
## Insert/Replace Batteries



Battery indicator	Description
	Fully charged.
	As the battery charge diminishes, black charge bars disappear, one by one, from the left of the battery indicator.
	The battery voltage is low. Replace the batteries as soon as possible.
	(Blinks) The battery is exhausted. Replace the batteries.

## Inspection Before Measurement

Verify that the instrument operates normally to ensure that no damage occurred during storage or shipping. If you find any damage, contact your authorized Hioki distributor or reseller.

Check item	
<input type="checkbox"/> The battery cover is closed and its screw has been securely tightened.	<input type="checkbox"/> There is no damage to the test lead insulation, and neither the white sheathing nor metal conductor inside the wire are exposed.
<input type="checkbox"/> There is no foreign matter on the measurement terminals. (p. 11)	<input type="checkbox"/> The instrument is neither damaged nor cracked.
<input type="checkbox"/> The test leads are not broken. 	<input type="checkbox"/> No indicators are missing.  <p>(All lit up)</p>
<input type="checkbox"/> The battery voltage (p. 13) is sufficient.	

# Current Measurement



Press for 1 sec.  
→ Perform zero adjustment

## 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, CM4374:

600.0 A range    40.0 A or more

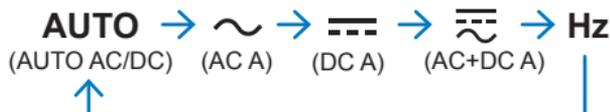
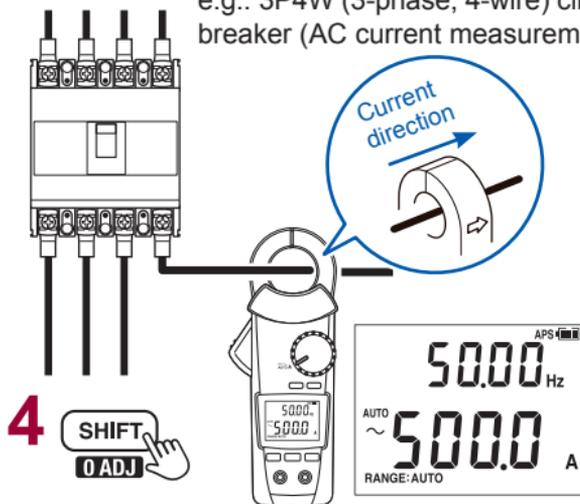
2000 A range    200 A or more

## DC current polarity detection function (p.35)

If the measured value is negative, the buzzer will sound, and the display will turn red (threshold: -10 A).

**3** Clamp the wire.

e.g.: 3P4W (3-phase, 4-wire) circuit breaker (AC current measurement)



## Manual Hold / Auto Hold

### MANUAL HOLD



Pressing the **HOLD** key again cancels the measured value hold function.

### AUTO HOLD



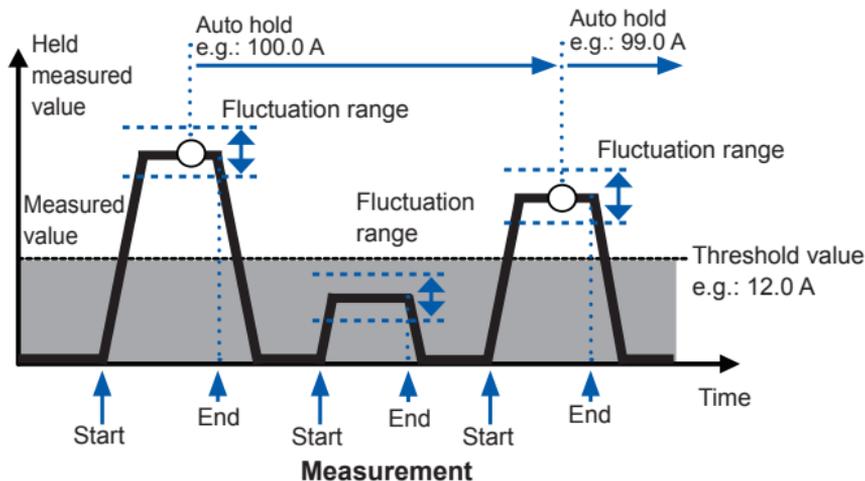
Measured value automatically retains.

Pressing the **HOLD** key for 1 second cancels the auto hold function.

## Auto hold conditions

Display value updates are stopped when the following two conditions are satisfied:

- When the measured value exceeds the threshold value described in the table in the next page.  
(voltage, current)  
When the measured value is less than the threshold value described in the table in the next page.  
(resistance, continuity, diode)
- When the range over which the measured value is fluctuating stabilizes within the fluctuation range described in the table in the next page.



If the measured value falls below the threshold value (voltage, current) or exceeds the threshold value (resistance, continuity, diode) after display value updates are stopped, display value updates will stop once more if the two conditions are satisfied again.

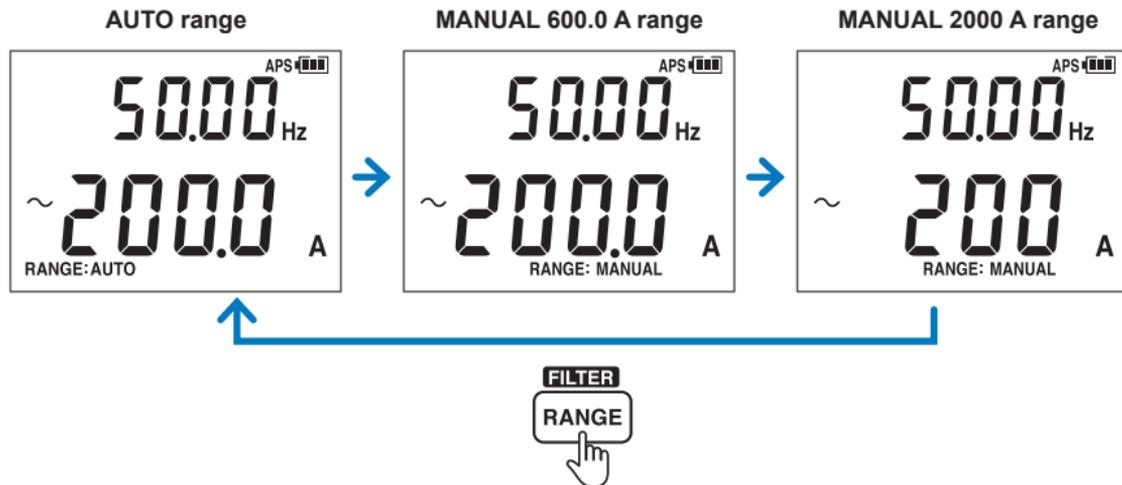
## Manual Hold / Auto Hold

Measurement function	Fluctuation range	Threshold value
AC current DC current AC+DC current	20.00 A range: within 100 counts 600.0 A range: within 120 counts 2000 A range: within 40 counts	20.00 A range: 100 counts 600.0 A range: 120 counts 2000 A range: 40 counts
AC voltage DC voltage (excluding the 600.0 mV range) AC+DC voltage	6.000 V/ 60.00 V/ 600.0 V range: within 120 counts 1000 V range: within 20 counts 1500 V range: within 30 counts	6.000 V/ 60.00 V/ 600.0 V range: 120 counts 1000 V range: 20 counts 1500 V range: within 30 counts
Resistance, Continuity	600.0 $\Omega$ /6.000 k $\Omega$ /60.00 k $\Omega$ /600.0 k $\Omega$ range: within 100 counts	600.0 $\Omega$ /6.000 k $\Omega$ /60.00 k $\Omega$ /600.0 k $\Omega$ range: 4900 counts
Diode	1.800 V range: within 40 counts	1.800 V range: 1460 counts

The auto hold function only operates for the above measurement functions.

## Switching ranges

e.g. 1: Current measurement with the CM4373, CM4374



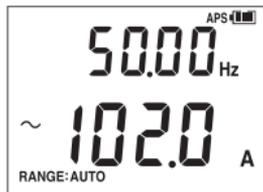
e.g. 2: Current measurement with the CM4371, CM4372



# Filter Function

## FILTER OFF

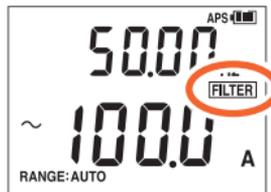
Measured value including noise



Press for 1 sec.

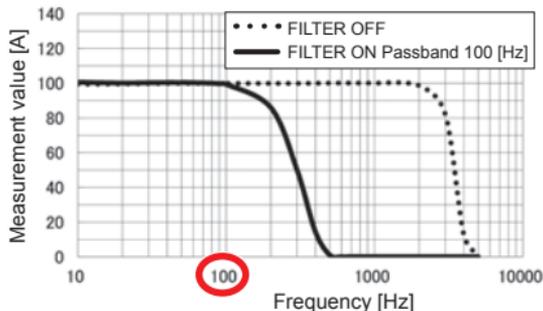
## FILTER ON

Measured value with reduced noise



### Frequency characteristics when using the filter

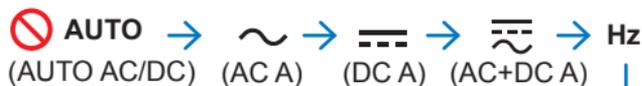
(600.0 A AC range, 100 A input)



Turn off the filter function when performing measurement of power supply frequencies in excess of 100 Hz, for example on an aircraft or ship.

An illustration showing a ship and an airplane. A speech bubble from a character says 'Filter OFF'.

# MAX/MIN/AVG/PEAK



Can not be used at  
AUTO AC/DC.

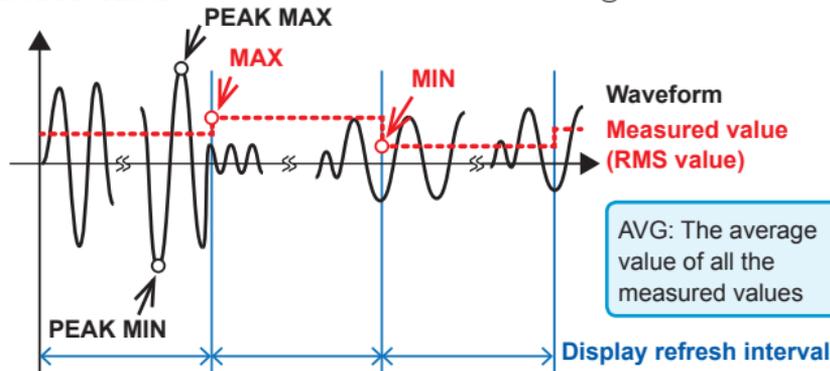


Press for 1 sec.  
→ Cancel



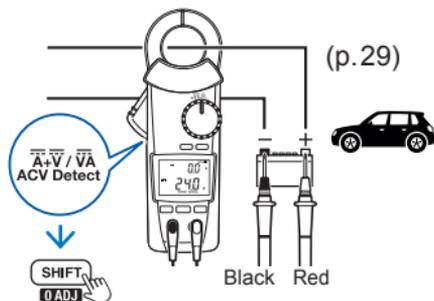
→ Measured value retains.

The instrument  
performs true RMS  
measurement.



## Simultaneous display of DC current/voltage peak values

1



2

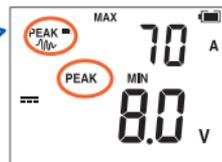
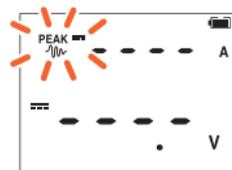


Press for 1 sec.  
→ PEAK display ON

Voltage: 60.00 V range (fixed)  
Current: 600.0 A range (fixed) (CM4371, CM4372)  
Trigger level:  $\pm 60$  A  
Current: 2000 A range (fixed) (CM4373, CM4374)  
Trigger level:  $\pm 200$  A  
The input current that equals to the trigger level or less does not trigger any peak measurement.

3

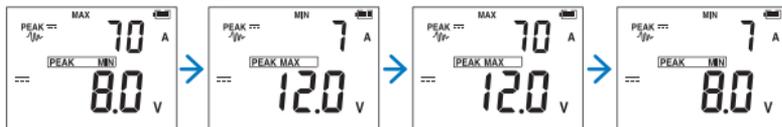
Engine starts  
(PEAK occurrence)



## Simultaneous display of DC current/voltage peak values

4

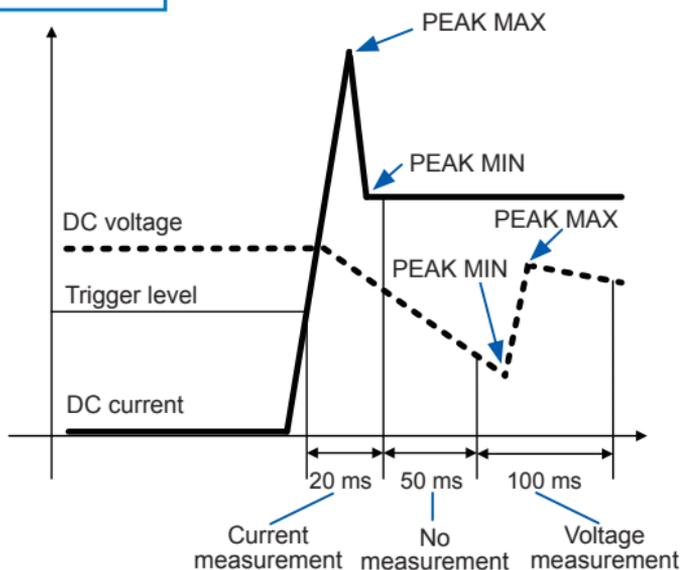
**INRUSH**  
MAX/MIN  
PEAK



**INRUSH**  
MAX/MIN  
PEAK

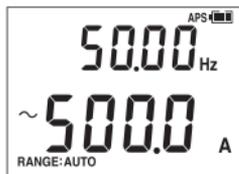
Press for 1 sec.  
→Cancel

While measuring currents, the instrument, which measures peak values of current and voltage alternately, does not display any voltage values even when a voltage is applied. To measure peak values of each of current and voltage, perform measurement using the MAX/MIN/AVG/PEAK procedure.

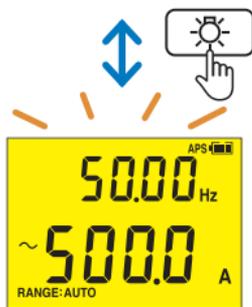


## Backlight / Auto Power Save (APS)

### Backlight



Backlight OFF



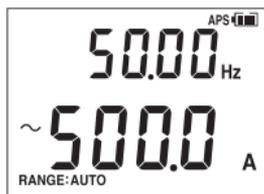
Backlight ON

Automatically switched off when the instrument is not in use for 40 s.

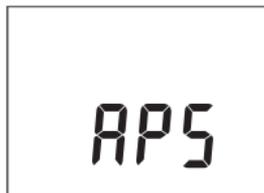
### Auto Power Save (APS)

(Always on)

Cancellation method: p.35



No operation for 15 min.



No operation for 45 min.

Power OFF

To restart the instrument, briefly set the rotary switch to "OFF."

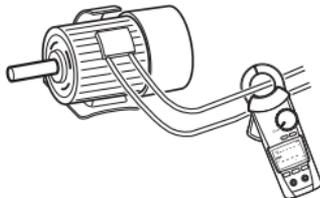
# Rush current (INRUSH)

**1** MOTOR OFF



**3**  Press for 1 sec.  
→Zero adjustment

**4** Clamp the wire.



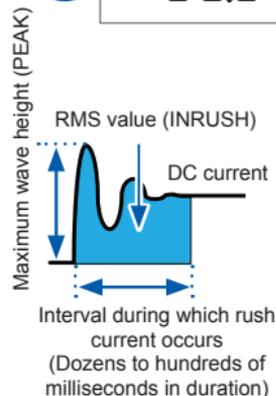
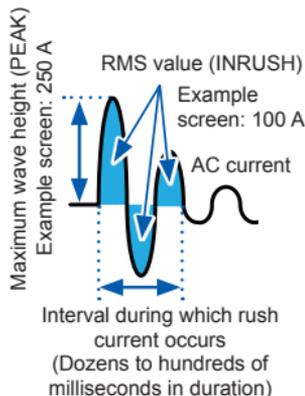
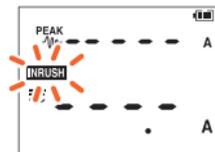
600.0 A range (fixed) (CM4371, CM4372)  
Trigger level:  $\pm 10$  A  
2000 A range (fixed) (CM4373, CM4374)  
Trigger level:  $\pm 100$  A

**5** 

Press for 1 sec.  
→INRUSH ON

**6** MOTOR ON

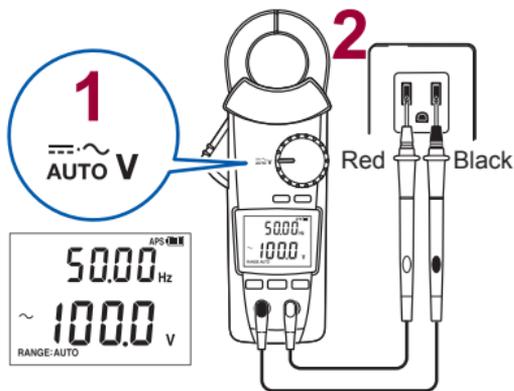
**7** Rush current occurrence 



# Other Measurement Functions

## Voltage

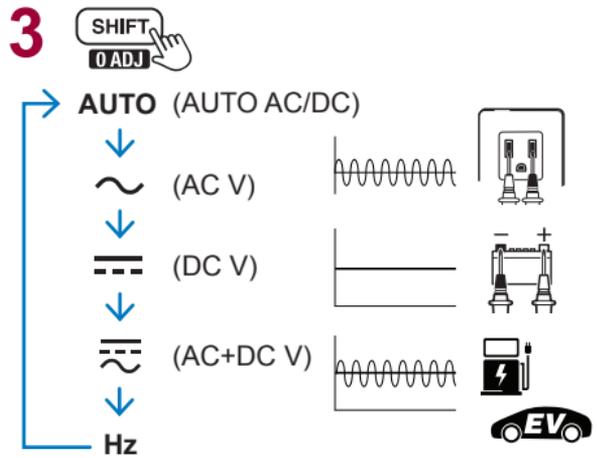
e.g.: commercial power supply (AC voltage measurement)



Do not input excessively high voltage.

**(Red display)**

Do not touch.



**DC voltage polarity detection function (p.35)**

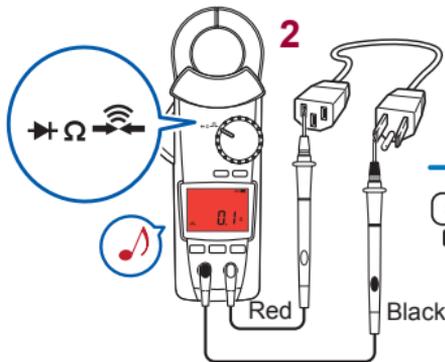
If the measured value is negative, the buzzer will sound, and the display will turn red (threshold: -10 V).

### Continuity Check

1 Zero adjustment



2



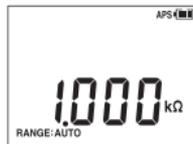
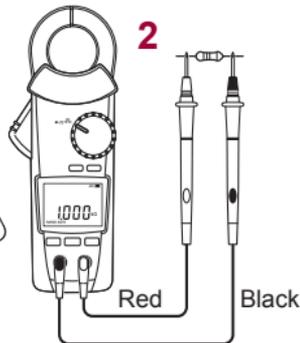
(Red display)

### Resistance

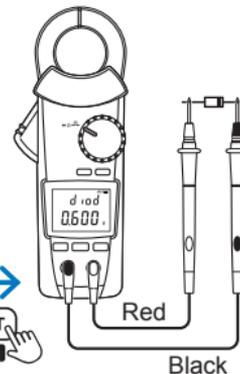
1 Zero adjustment



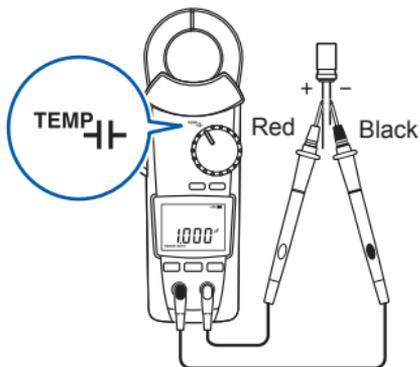
2



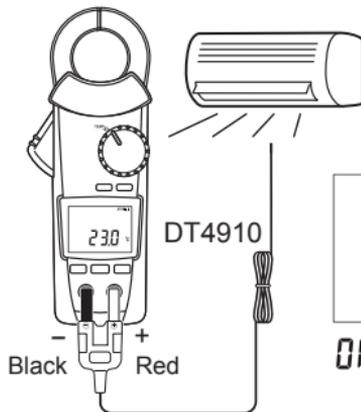
### Diode



### Capacitance



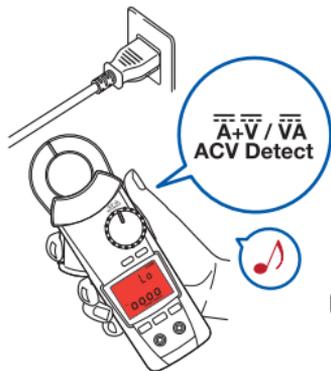
### Temperature



**OPEN** : when DT4910 is broken.

To change the temperature display unit: p.36

### Electric Charge Detection



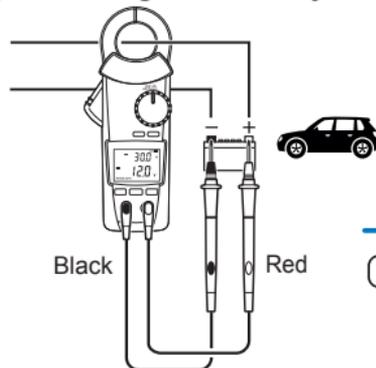
Grip as shown in figure.



(Red display)

### Simultaneous display of DC current and DC voltage

e.g.: Checking a car battery



Press for 1 sec.  
→ PEAK display  
(p.22)

The current range is fixed:  
600.0 A range (fixed): CM4371, CM4372  
2000 A range (fixed): CM4373, CM4374

### DC power

e.g.: Solar power system maintenance



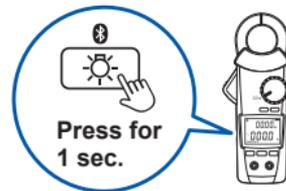
## Bluetooth® Communications (only for CM4372, CM4374)

The CM4372 and CM4374 are clamp-style meters with Bluetooth® (Bluetooth® Low Energy) support. When the Bluetooth® function is enabled, you can review measurement data and create measurement reports on mobile devices (iPhone, iPad, iPad Mini, iPad Pro, iPod Touch, and Android™ devices). For more information about this functionality, see the [Help](#) function in the application software GENNECT Cross.

**1** Install the GENNECT Cross on your mobile device. (p.31)

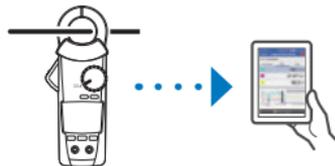


**2** Enable the Bluetooth® function on the CM4372 or CM4374. (p.32)



**3** Launch the GENNECT Cross and pair it with the CM4372 or CM4374. (p.33)

**4** Select the [General Measurement](#), [Logging \(Recording\)](#), or [Waveform Graph](#) function. (p.34)



## Installing the application software GENNECT Cross

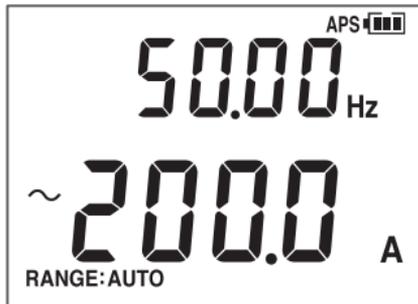
Search for “GENNECT Cross” on the App Store from your iPhone, iPad or other Apple device, or on Google Play™ from your Android device. Then download and install the GENNECT Cross. You will need an Apple ID to download the app from the App Store, or a Google account to download the app from Google Play. For more information about how to register an account, contact the store at which you purchased your device.



- Because the CM4372 and CM4374 emit radio waves, use in a country or region where they have not been approved may be subject to fines or other penalties as a violation of applicable laws or regulations. For more information, see the attached “Precautions Concerning Use of Equipment That Emits Radio Waves” or go to our website.
- The CM4372 and CM4374 availability is limited to certain countries. For more information, contact your authorized Hioki distributor or reseller.
- Bluetooth® communications range varies greatly with distance from obstructions (walls, metal obstruction, etc.) as well as distance from the floor or ground. To ensure stable measurement, verify adequate signal strength.
- Although this app is provided free of charge, downloading or use of the app may incur Internet connection charges. Such charges are the sole responsibility of the user.
- This app is not guaranteed to operate on all mobile devices.

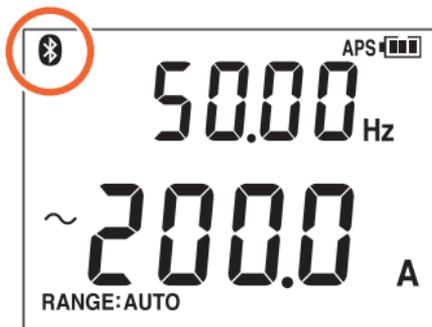
## Turning on the Bluetooth® function

### Bluetooth® function OFF



Press for 1 sec.

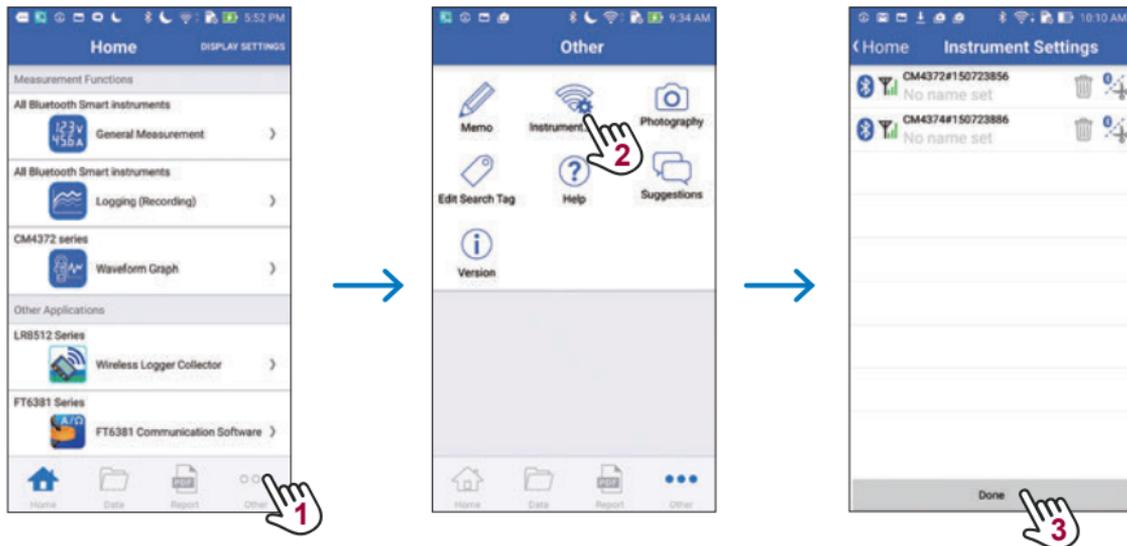
### Bluetooth® function ON



 icon will flash when the instrument is connected to a mobile device.



## Pairing the app with the CM4372 or CM4374

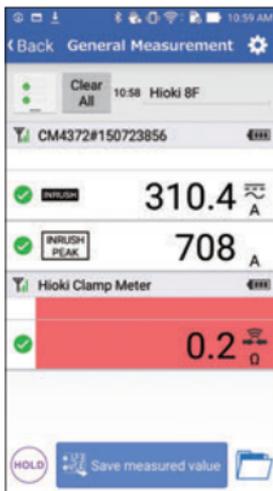


- When the app is launched for the first time (before being paired with any instrument), the **Instrument Settings** screen will be displayed.
- While the mobile device is displaying the **Instrument Settings** screen, simply move it close to a CM4372 or CM4374 to automatically pair it with the instrument (the app can be paired with up to 8 instruments).
- Allow about 5 to 30 seconds for the instrument to pair with the app after being turned on. If the instrument fails to pair within 1 minute, relaunch GENNECT Cross and cycle the instrument's power.

Bluetooth® Communications (only for CM4372, CM4374)

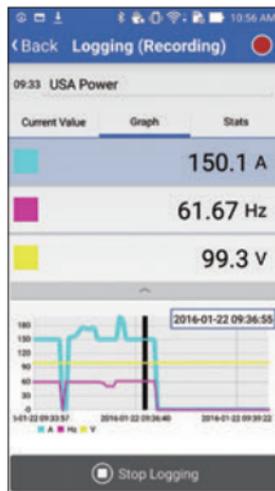
## Making measurements with the Bluetooth® function

Select the **General Measurement**, **Logging (Recording)**, or **Waveform Graph** function on the **Home** screen. For more information about each function, see the **Help** function in the GENNECT Cross.



### General Measurement

Saves measured values from multiple channels



### Logging (Recording)

Simple logging (up to 24 hours)



### Waveform Graph

Simple oscilloscope (voltage/current)

## Power-on Option Table

+  Turn on the power while pressing the operation key.  
(Turn the rotary switch from OFF.)

Setting	Operating instruction	Factory setting	Setting retained?
Canceling the auto power save (APS) function	 + 	ON	No (Set each time)
DC current and DC voltage polarity detection function (ON/OFF)	 + 	OFF	Yes
Displaying all indicators (Version of software/Model number)	 + 	-	-
Buzzer sound (ON/OFF)	 + 	ON	Yes
Automatic backlight deactivation (ON/OFF)	 + 	ON	Yes

Power-on Option Table

Setting	Operating instruction	Factory setting	Setting retained?
<p><b>Switching the temperature unit</b></p>	<p>  +  +  </p> <p>↓</p> <p>  +  </p> <p>Press for 1 sec.</p> <p>↓</p> <p>To change the temperature unit: </p> <p>↓</p> <p>To save the setting: </p> <p>Press for 1 sec.</p>	<p>°C</p>	<p>Yes</p>

## Repairs, Inspections, and Cleaning

### Cleaning

To clean the instrument, wipe it gently with a soft cloth moistened with water or mild detergent.

### Troubleshooting

Symptom	Verification and/or Solution
<ul style="list-style-type: none"> <li>The instrument is indicating an abnormal measured value for current.</li> </ul>	<ul style="list-style-type: none"> <li>Is the measured current value too small for the instrument's measurement range? Wrap the wire around the clamp sensor one or more times. Each additional wrap of the wire will increase the measured value, so that wrapping it once yields a measured value that is twice the actual value and wrapping it twice yields a measured value that is three times the actual value.</li> </ul>
	<ul style="list-style-type: none"> <li>Are the tips of the clamp sensor's jaws open?</li> </ul>
	<ul style="list-style-type: none"> <li>Is the clamp sensor damaged? If the sensor is damaged or cracked, it will not be able to measure current accurately. Send the instrument for repair.</li> </ul>

## Repairs, Inspections, and Cleaning

Symptom	Verification and/or Solution
<ul style="list-style-type: none"> <li>When readings from the instrument are compared with those of another clamp-on current meter, the measured values differ.</li> </ul>	<ul style="list-style-type: none"> <li>The instrument cannot accurately measure waveforms that contain a component that falls outside the frequency characteristics range.</li> <li>Since the instrument performs true RMS measurement, it can accurately measure distorted waveforms. When measuring a distorted waveform, the measured value will differ from a clamp-on current meter that uses the averaging method.</li> </ul>
<ul style="list-style-type: none"> <li>The current value is larger than expected.</li> <li>A current value is displayed even though there is no input.</li> </ul>	<ul style="list-style-type: none"> <li>The instrument cannot perform measurement accurately in the presence of a strong magnetic field from a source such as a nearby transformer or high-current circuit or in the presence of a strong electric field from a source such as a wireless device.</li> </ul>
<ul style="list-style-type: none"> <li>A sound is being emitted by the instrument's clamp sensor.</li> </ul>	<ul style="list-style-type: none"> <li>The clamp sensor may emit sound when measuring AC currents in excess of approx. 500 A, however, there is no effect on the measurement.</li> </ul>
<ul style="list-style-type: none"> <li>The measured value does not appear.</li> <li>No measured value is displayed, even when the test leads are shorted.</li> <li>Zero adjustment is impossible.</li> </ul>	<ul style="list-style-type: none"> <li>Check the continuity of the test leads. (p.27) If a wiring break is found, replace the test leads.</li> <li>Insert the test leads all the way.</li> <li>Use the proper measurement method. If no problem can be found, the instrument may be damaged. Send the instrument for repair.</li> <li>When performing current measurement, perform zero-adjustment while no measurement target is being clamped.</li> </ul>

## Error display

Error display	Description	Solution
<b>Err 001</b>	<b>ROM error</b> Program	When the error appears in the display, it is necessary to repair the instrument. Please contact your authorized Hioki distributor or reseller.
<b>Err 002</b>	<b>ROM error</b> Adjustment data	
<b>Err 005</b>	<b>ADC error</b> Hardware malfunction	
<b>Err 008</b>	<b>Bluetooth<sup>®</sup> error</b> Hardware malfunction (only for CM4372, CM4374)	

# Specifications

## General Specifications

<b>Dimensions</b>	CM4371, CM4372: Approx. 65W × 215H × 35D mm (2.56"W × 8.46"H × 1.38"D) CM4373, CM4374: Approx. 65W × 250H × 35D mm (2.56"W × 9.84"H × 1.38"D) (excluding protruding parts, operation grip, and jaw)
<b>Jaw dimensions</b>	CM4371, CM4372: Approx. 69W × 14D mm (2.72"W × 0.55"D) CM4373, CM4374: Approx. 92W × 18D mm (3.62"W × 0.71"D)
<b>Maximum measurable conductor diameter</b>	CM4371, CM4372: $\phi$ 33 mm CM4373, CM4374: $\phi$ 55 mm
<b>Mass</b>	CM4371, CM4372: Approx. 340 g (12.0 oz.) (excluding batteries) CM4373, CM4374: Approx. 530 g (18.7 oz.) (excluding batteries)
<b>Product warranty period</b>	3 years (Measurement accuracy is defined in terms of a 1-year accuracy and a 3-year accuracy.) (3 years: reference values) Number of jaw open/close cycles: 30,000
<b>Operating environment</b>	Indoors, pollution degree 2, altitude up to 2000 m (6562 ft.)
<b>Operating temperature and humidity</b>	-25°C to 65°C (-13°F to 149°F), 90% RH or less (no condensation)
<b>Storage temperature and humidity</b>	-30°C to 70°C (-22°F to 158°F), 90% RH or less (no condensation)

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<b>Dustproof and waterproof</b>	Jaw, barrier: IP50 Grip: IP54 (when measuring an insulated conductor only) Risk of electric shock from the conductor being measured increases when wet.
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## Electrical Characteristics

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<b>Display update rate (measured value)</b>	<ul style="list-style-type: none"><li>• Measured value excluding electrostatic capacity, frequency, and temperature: 5 times/s (after the range is fixed)</li><li>• Electrostatic capacity: 0.5 to 5 times/s (The number of times varies depending on the capacitance.)</li><li>• Frequency: 0.3 to 5 times/s (The number of times varies depending on the capacitance.)</li><li>• Temperature: 1 times/s (including thermocouple wiring break check) (Defined within the measurement range (excluding range changes)).</li></ul>
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<b>Maximum terminal-to-terminal rated voltage</b>	1000 V AC (up to 1 kHz) /1700 V DC
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<b>Maximum rated voltage to earth</b>	1000 V AC (Measurement category III) 600 V AC (Measurement category IV) Anticipated transient overvoltage: 8000 V
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<b>Rated supply voltage</b>	1.5 V DC ×2 LR03 Alkaline battery ×2
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## Specifications

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### Continuous operating time

- Approx. 45 hours, at 23°C (73.4°F): 10 AAC measurement (CM4371, CM4372), 100 AAC measurement (CM4373, CM4374)  
Backlight OFF, Bluetooth OFF
  - Approx. 24 hours, at 23°C (73.4°F): 10 AAC measurement (CM4372), 100 AAC measurement (CM4374)  
Backlight OFF, Bluetooth ON
- 

## Standards

Safety	EN61010
EMC	EN61326

## Specification for Model DT4910 Thermocouples (K)

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<b>Sensor type</b>	Thermocouples (K)
<b>Tolerance</b>	±2.5°C (Class 2)
<b>Temperature measuring junction</b>	Exposed type (welding)
<b>Sensor length</b>	Approx. 800 mm
<b>Measuring temperature</b>	-40°C to 260°C (-40°F to 500°F) (temperature detector)
<b>Operating temperature</b>	-15°C to 55°C (5°F to 131°F)
<b>Storage temperature</b>	-30°C to 60°C (-22°F to 140°F)

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## CM4372, CM4374 Individual Specifications

### Bluetooth® Function

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<b>Bluetooth® communications function</b>	Display of measured values on a smartphone or a tablet while using Bluetooth® communications.
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### External Interface Specifications

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<b>Interface</b>	Bluetooth® 4.0LE (  Bluetooth® )
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<b>Antenna power</b>	Maximum +0 dBm (1 mW)
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<b>Communications range</b>	Approx. 10 m (line of sight)
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<b>Communications profile</b>	GATT (Generic Attribute Profile)
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<b>Supported devices</b>	Supported iOS terminals: iOS 10 or later (models supporting Bluetooth low energy only) Supported Android terminals: Android 4.3 or later (models supporting Bluetooth low energy only)
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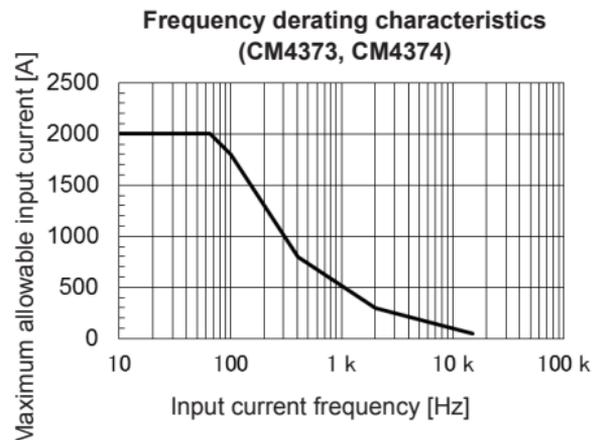
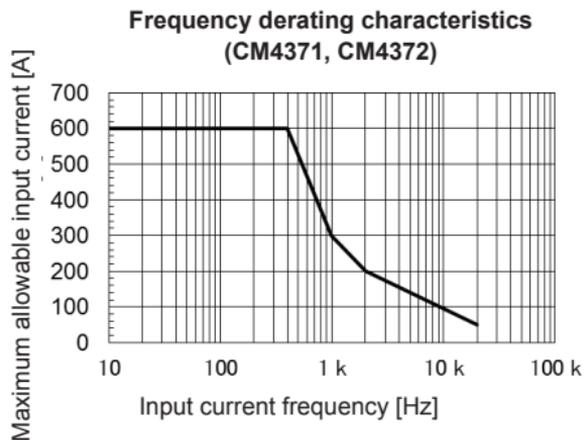
## Accuracy specifications and measurement specifications

<b>Guaranteed accuracy period</b>	1 year "Accuracy shown in accuracy table" 3 years (reference values) "Accuracy shown in accuracy table ×1.5"
<b>Guaranteed accuracy period after adjustment made by Hioki</b>	1 year
<b>Guaranteed accuracy for temperature and humidity</b>	23°C±5°C (73°F±9°F), 90% RH or less (no condensation)
<b>Temperature characteristic</b>	Within the operating temperature range, add "measurement accuracy × 0.1/°C" (excluding 23°C±5°C (73°F±9°F)).
<b>Other conditions</b>	When using the L4931 Extension Cable Set, accuracy is guaranteed for up to two connected cables (totaling 3 m in length).
<b>AC measurement method</b>	True RMS measurement
<b>Conditions of AC accuracy guarantee</b>	Sine wave input

## AC current/DC current/AC+DC current common specification

**Effects of conductor position** CM4371, CM4372: within  $\pm 1.5\%$  rdg.  
 CM4373, CM4374: within  $\pm 1.0\%$  rdg.  
 At all positions around the jaw's center-point reference

**Maximum allowable input (AC/DC)** CM4371, CM4372: 600 A continuous  
 CM4373, CM4374: 2000 A continuous  
 Frequency derating characteristics with continuous input (See the graph below)



# Accuracy Table

## Accuracy

We define measurement tolerances in terms of f.s. (full scale), rdg. (reading) and dgt. (digit) values with the following meanings:

<b>f.s.</b> <b>(maximum display value/range)</b>	The maximum displayable value. This is usually the name of the currently selected range.
<b>rdg.</b> <b>(displayed value)</b>	The value currently being measured and displayed on the measuring instrument.
<b>dgt.</b> <b>(resolution)</b>	The smallest displayable unit on a digital measuring instrument, i.e., the input value that causes the digital display to show a "1" as the least-significant digit.

### 1 AC current 20.00 A/600.0 A (CM4371, CM4372)

Conditions of guaranteed accuracy: After zero adjustment has been performed

Zero-display range: 5 counts or less

Coupling type: AC coupling

Crest factor: For the 20.00 A range, 7.5

For the 600.0 A range (300.0 A or less), 3

For the 600.0 A range (greater than 300.0 A and less than or equal to 600.0 A), 1.5

Peak detection time width: 1 ms or more (Filter off)

**AC current (Measurement value/MAX/MIN/AVG)**

Range (Accuracy guarantee range)	Resolution	Accuracy guarantee frequency range	Measurement accuracy	
			Filter off	Filter on
20.00 A (1.00 A to 20.00 A)	0.01 A	10 Hz≤f<45 Hz	±1.8% rdg.±0.10 A	±2.3% rdg.±0.10 A
		45 Hz≤f≤66 Hz	±1.3% rdg.±0.08 A	±1.8% rdg.±0.08 A
		66 Hz<f≤1 kHz	±2.0% rdg.±0.10 A	-
600.0 A (1.0 A to 600.0 A)	0.1 A	10 Hz≤f<45 Hz	±1.8% rdg.±0.5 A	±2.3% rdg.±0.5 A
		45 Hz≤f≤66 Hz	±1.3% rdg.±0.3 A	±1.8% rdg.±0.3 A
		66 Hz<f≤1 kHz	±2.0% rdg.±0.5 A	-

Auto range movement threshold: 2000 counts or more for upper range, 180 counts or less for lower range.

**AC current (PEAK MAX/PEAK MIN)**

Range (Accuracy guarantee range)	Resolution	Accuracy guarantee frequency range	Measurement accuracy
20.00 A (±1.0 A to ±150.0 A)	0.1 A	10 Hz≤f<45 Hz	±1.8% rdg.±0.7 A
		45 Hz≤f≤66 Hz	±1.3% rdg.±0.7 A
		66 Hz<f≤1 kHz	±2.0% rdg.±0.7 A
600.0 A (±10 A to ±900 A)*	1 A	10 Hz≤f<45 Hz	±1.8% rdg.±7 A
		45 Hz≤f≤66 Hz	±1.3% rdg.±7 A
		66 Hz<f≤1 kHz	±2.0% rdg.±7 A

\* Values of up to ±1500 A are displayed, but accuracy is not defined for display values in excess of 900 A (which are provided as reference values).

## Accuracy Table

### 2 DC current and auto A DC detection 20.00 A/600.0 A (CM4371, CM4372)

Conditions of guaranteed accuracy: After zero adjustment has been performed

Zero-display range: 5 counts or less

Coupling type: DC coupling

Peak detection time width: 1 ms or more (Filter off)

#### DC current (Measurement value/MAX/MIN/AVG)

Range	(Accuracy guarantee range)	Resolution	Measurement accuracy (Values apply regardless of whether the filter is on or off.)
20.00 A	( $\pm 1.00$ A to $\pm 20.00$ A)	0.01 A	$\pm 1.3\%$ rdg. $\pm 0.08$ A
600.0 A	( $\pm 1.0$ A to $\pm 600.0$ A)	0.1 A	$\pm 1.3\%$ rdg. $\pm 0.3$ A

Auto range movement threshold: 2000 counts or more for upper range, 180 counts or less for lower range.

#### DC current (PEAK MAX/PEAK MIN)

Range	(Accuracy guarantee range)	Resolution	Measurement accuracy
20.00 A	( $\pm 1.0$ A to $\pm 150.0$ A)	0.1 A	$\pm 1.3\%$ rdg. $\pm 0.7$ A
600.0 A	( $\pm 10$ A to $\pm 900$ A)*	1 A	$\pm 1.3\%$ rdg. $\pm 7$ A

\* Values of up to  $\pm 1500$  A are displayed, but accuracy is not defined for display values in excess of 900 A (which are provided as reference values).

### 3 AC+DC current and auto A AC detection 20.00 A/600.0 A (CM4371, CM4372)

Conditions of guaranteed accuracy:	After zero adjustment has been performed
Zero-display range:	5 counts or less
Coupling type:	DC coupling
Crest factor:	For the 20.00 A range, 7.5 For the 600.0 A range (300.0 A or less), 3 For the 600.0 A range (greater than 300.0 A and less than or equal to 600.0 A), 1.5
Peak detection time width:	1 ms or more (Filter off)

#### AC+DC current (Measurement value/MAX/MIN/AVG)

Range (Accuracy guarantee range)	Resolution	Accuracy guarantee frequency range	Measurement accuracy	
			Filter off	Filter on
20.00 A (1.00 A to 20.00 A)	0.01 A	10 Hz≤f<45 Hz	±1.8% rdg.±0.10 A	±2.3% rdg.±0.10 A
		DC, 45 Hz≤f≤66 Hz	±1.3% rdg.±0.13 A	±1.8% rdg.±0.13 A
		66 Hz<f≤1 kHz	±2.0% rdg.±0.10 A	-
600.0 A (1.0 A to 600.0 A)	0.1 A	10 Hz≤f<45 Hz	±1.8% rdg.±0.7 A	±2.3% rdg.±0.7 A
		DC, 45 Hz≤f≤66 Hz	±1.3% rdg.±1.3 A	±1.8% rdg.±1.3 A
		66 Hz<f≤1 kHz	±2.0% rdg.±0.7 A	-

Auto range movement threshold: 2000 counts or more for upper range, 180 counts or less for lower range.

## Accuracy Table

### AC+DC current (PEAK MAX/PEAK MIN)

Range	(Accuracy guarantee range)	Resolution	Accuracy guarantee frequency range	Measurement accuracy
20.00 A	(±1.0 A to ±150.0 A)	0.1 A	10 Hz≤f<45 Hz	±1.8% rdg.±0.7 A
			DC, 45 Hz≤f≤66 Hz	±1.3% rdg.±0.7 A
			66 Hz<f≤1 kHz	±2.0% rdg.±0.7 A
600.0 A	(±10 A to ±900 A)*	1 A	10 Hz≤f<45 Hz	±1.8% rdg.±7 A
			DC, 45 Hz≤f≤66 Hz	±1.3% rdg.±7 A
			66 Hz<f≤1 kHz	±2.0% rdg.±7 A

\* Values of up to ±1500 A are displayed, but accuracy is not defined for display values in excess of 900 A (which are provided as reference values).

## 4 Rush current (INRUSH) 600.0 A (CM4371, CM4372)

Conditions of guaranteed accuracy: After zero adjustment has been performed

INRUSH trigger level: For 600.0 A range, detection of current of +10 A or more or -10 A or less

Coupling type: DC coupling

Crest factor: For the 600.0 A range (300.0 A or less), 3

For the 600.0 A range (greater than 300.0 A and less than or equal to 600.0 A), 1.5

Peak detection time width: 1 ms or more

**Rush Current (INRUSH)**

Range (Accuracy guarantee range)	Resolution	Accuracy guarantee frequency range	Measurement accuracy (Values apply regardless of whether the filter is on or off.)
600.0 A (10.0 A to 600.0 A)	0.1 A	DC, 20 Hz ≤ f ≤ 500 Hz	±5.0% rdg. ±1.3 A

**Rush Current (INRUSH peak value)**

Range (Accuracy guarantee range)	Resolution	Accuracy guarantee frequency range	Measurement accuracy
600.0 A (±10 A to ±900 A)*	1 A	DC, 20 Hz ≤ f ≤ 500 Hz	±6.0% rdg. ±10 A

\* Values of up to ±1500 A are displayed, but accuracy is not defined for display values in excess of 900 A (which are provided as reference values).

**5 AC current 600.0 A/2000 A (CM4373, CM4374)**

Conditions of guaranteed accuracy:	After zero adjustment has been performed
Zero-display range:	5 counts or less
Coupling type:	AC coupling
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
Peak detection time width:	1 ms or more (Filter off)

## Accuracy Table

### AC current (Measurement value/MAX/MIN/AVG)

Range	(Accuracy guarantee range)	Resolution	Accuracy guarantee frequency range	Measurement accuracy	
				Filter off	Filter on
600.0 A	(1.0 A to 600.0 A)*	0.1 A	10 Hz≤f<45 Hz	±1.8% rdg.±0.5 A	±2.3% rdg.±0.5 A
			45 Hz≤f≤66 Hz	±1.3% rdg.±0.3 A	±1.8% rdg.±0.3 A
			66 Hz<f≤1 kHz	±2.0% rdg.±0.5 A	-
2000 A	(10 A to 1800 A)	1 A	10 Hz≤f<45 Hz	±1.8% rdg.±5 A	±2.3% rdg.±5 A
			45 Hz≤f≤66 Hz	±1.3% rdg.±3 A	±1.8% rdg.±3 A
			66 Hz<f≤1 kHz	±2.0% rdg.±5 A	-
	(1801 A to 2000 A)	1 A	10 Hz≤f<45 Hz	±2.8% rdg.±5 A	±3.3% rdg.±5 A
			45 Hz≤f≤66 Hz	±2.3% rdg.±3 A	±2.8% rdg.±3 A
			66 Hz<f≤1 kHz	-	-

Auto range movement threshold: 6000 counts or more for upper range, 540 counts or less for lower range.

\* For 30.0 A or less, add 0.5 A to the measurement accuracy.

**AC current (PEAK MAX/PEAK MIN)**

Range	(Accuracy guarantee range)	Resolution	Accuracy guarantee frequency range	Measurement accuracy
600.0 A	(±10 A to ±1500 A)	1 A	10 Hz≤f<45 Hz	±1.8% rdg.±7 A
			45 Hz≤f≤66 Hz	±1.3% rdg.±7 A
			66 Hz<f≤1 kHz	±2.0% rdg.±7 A
2000 A	(±10 A to ±2300 A)	1 A	10 Hz≤f<45 Hz	±1.8% rdg.±7 A
			45 Hz≤f≤66 Hz	±1.3% rdg.±7 A
			66 Hz<f≤1 kHz	±2.0% rdg.±7 A
	(±2301 A to ±2840 A)	1 A	10 Hz≤f<45 Hz	±6.5% rdg.±7 A
			45 Hz≤f≤66 Hz	±6.0% rdg.±7 A
			66 Hz<f≤1 kHz	-

**6 DC current and auto A DC detection 600.0 A/2000 A (CM4373, CM4374)**

Conditions of guaranteed accuracy: After zero adjustment has been performed

Zero-display range: 5 counts or less

Coupling type: DC coupling

Peak detection time width: 1 ms or more (Filter off)

## Accuracy Table

### DC current (Measurement value/MAX/MIN/AVG)

Range	(Accuracy guarantee range)	Resolution	Measurement accuracy (Values apply regardless of whether the filter is on or off.)
600.0 A	( $\pm 1.0$ A to $\pm 600.0$ A)*	0.1 A	$\pm 1.3\%$ rdg. $\pm 0.3$ A
2000 A	( $\pm 10$ A to $\pm 2000$ A)	1 A	$\pm 1.3\%$ rdg. $\pm 3$ A

Auto range movement threshold: 6000 counts or more for upper range, 540 counts or less for lower range.

\* For 30.0 A or less, add 0.5 A to the measurement accuracy.

### DC current (PEAK MAX/PEAK MIN)

Range	(Accuracy guarantee range)	Resolution	Measurement accuracy
600.0 A	( $\pm 10$ A to $\pm 1500$ A)	1 A	$\pm 1.3\%$ rdg. $\pm 7$ A
2000 A	( $\pm 10$ A to $\pm 2300$ A)	1 A	$\pm 1.3\%$ rdg. $\pm 7$ A
	( $\pm 2301$ A to $\pm 2840$ A)	1 A	$\pm 6.0\%$ rdg. $\pm 7$ A

## 7 AC+DC current and auto A AC detection 600.0 A/2000 A (CM4373, CM4374)

Conditions of guaranteed

accuracy:	After zero adjustment has been performed
Zero-display range:	5 counts or less
Coupling type:	DC coupling
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
Peak detection time width:	1 ms or more (Filter off)

### AC+DC current (Measurement value/MAX/MIN/AVG)

Range	(Accuracy guarantee range)	Resolution	Accuracy guarantee frequency range	Measurement accuracy	
				Filter off	Filter on
600.0 A	(1.0 A to 600.0 A)	0.1 A	10 Hz≤f<45 Hz	±1.8% rdg.±0.7 A	±2.3% rdg.±0.7 A
			DC, 45 Hz≤f≤66 Hz	±1.3% rdg.±1.3 A	±1.8% rdg.±1.3 A
			66 Hz<f≤1 kHz	±2.0% rdg.±0.7 A	–
2000 A	(10 A to 1800 A)	1 A	10 Hz≤f<45 Hz	±1.8% rdg.±7 A	±2.3% rdg.±7 A
			DC, 45 Hz≤f≤66 Hz	±1.3% rdg.±13 A	±1.8% rdg.±13 A
			66 Hz<f≤1 kHz	±2.0% rdg.±7 A	–
	(1801 A to 2000 A)	1 A	10 Hz≤f<45 Hz	±2.8% rdg.±7 A	±3.3% rdg.±7 A
			DC, 45 Hz≤f≤66 Hz	±2.3% rdg.±13 A	±2.8% rdg.±13 A
			66 Hz<f≤1 kHz	–	–

Auto range movement threshold: 6000 counts or more for upper range, 540 counts or less for lower range.

## Accuracy Table

### AC+DC current (PEAK MAX/PEAK MIN)

Range	(Accuracy guarantee range)	Resolution	Accuracy guarantee frequency range	Measurement accuracy
600.0 A	(±10 A to ±1500 A)	1 A	10 Hz≤f<45 Hz	±1.8% rdg.±7 A
			DC, 45 Hz≤f≤66 Hz	±1.3% rdg.±7 A
			66 Hz<f≤1 kHz	±2.0% rdg.±7 A
2000 A	(±10 A to ±2300 A)	1 A	10 Hz≤f<45 Hz	±1.8% rdg.±7 A
			DC, 45 Hz≤f≤66 Hz	±1.3% rdg.±7 A
			66 Hz<f≤1 kHz	±2.0% rdg.±7 A
	(±2301 A to ±2840 A)	1 A	10 Hz≤f<45 Hz	±6.5% rdg.±7 A
			DC, 45 Hz≤f≤66 Hz	±6.0% rdg.±7 A
			66 Hz<f≤1 kHz	-

### 8 Rush Current (INRUSH) 2000 A (CM4373, CM4374)

Conditions of guaranteed accuracy:	After zero adjustment has been performed
INRUSH trigger level:	For 2000 A range, detection of current of +100 A or more or -100 A or less
Coupling type:	DC coupling
Crest factor:	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
Peak detection time width:	1 ms or more

**Rush Current (INRUSH) of AC+DC current**

Range	(Accuracy guarantee range)	Resolution	Accuracy guarantee frequency range	Measurement accuracy
2000 A	(100 A to 1800 A)	1 A	DC, 20 Hz≤f≤500 Hz	±3.3% rdg.±13 A
	(1801 A to 2000 A)	1 A	DC, 20 Hz≤f≤66 Hz	±5.0% rdg.±13 A

**Rush Current (INRUSH peak value) of AC+DC current**

Range	(Accuracy guarantee range)	Resolution	Accuracy guarantee frequency range	Measurement accuracy
2000 A	(±100 A to ±2300 A)	10 A	DC, 20 Hz≤f≤500 Hz	±6.0% rdg.±100 A
	(±2310 A to ±2840 A)	10 A	DC, 20 Hz≤f≤66 Hz	±8.0% rdg.±100 A

**9 AC voltage**

CMRR:	-60 dB or more (DC, 50 Hz/60 Hz, 1 kΩ unbalance)
Zero-display range:	5 counts or less
Coupling type:	AC coupling
Crest factor:	For 4000 counts or less, 3 For greater than 4000 counts and less than or equal to 6000 counts, 2 For 850 V or less, 2 (1000 V range only) For greater than 850 V and less than or equal to 1000 V, 1.7
Peak detection time width:	1 ms or more (Filter off)
Overload protection:	Lower of 1870 V DC/1100 V AC or $2 \times 10^7$ V · Hz (energized for 1 minute)
Transient overvoltage:	8000 V

## Accuracy Table

### AC voltage (Measurement value/MAX/MIN/AVG)

Range	(Accuracy guarantee range)	Resolution	Accuracy guarantee frequency range*	Measurement accuracy		Input impedance (at AC 50 Hz)
				Filter off	Filter on	
6.000 V	(0.000 V to 0.299 V)	0.001 V	15 Hz≤f<45 Hz	±1.5% rdg.±0.015 V	±2.0% rdg.±0.015 V	3.2 MΩ±5%
			45 Hz≤f≤66 Hz	±0.9% rdg.±0.013 V	±1.4% rdg.±0.013 V	
			66 Hz<f≤1 kHz	±1.5% rdg.±0.015 V	-	
6.000 V	(0.300 V to 6.000 V)	0.001 V	15 Hz≤f<45 Hz	±1.5% rdg.±0.005 V	±2.0% rdg.±0.005 V	3.2 MΩ±5%
			45 Hz≤f≤66 Hz	±0.9% rdg.±0.003 V	±1.4% rdg.±0.003 V	
			66 Hz<f≤1 kHz	±1.5% rdg.±0.005 V	-	
60.00 V	(3.00 V to 60.00 V)	0.01 V	15 Hz≤f<45 Hz	±1.5% rdg.±0.05 V	±2.0% rdg.±0.05 V	3.1 MΩ±5%
			45 Hz≤f≤66 Hz	±0.9% rdg.±0.03 V	±1.4% rdg.±0.03 V	
			66 Hz<f≤1 kHz	±1.5% rdg.±0.05 V	-	
600.0 V	(30.0 V to 600.0 V)	0.1 V	15 Hz≤f<45 Hz	±1.5% rdg.±0.5 V	±2.0% rdg.±0.5 V	3.0 MΩ±5%
			45 Hz≤f≤66 Hz	±0.9% rdg.±0.3 V	±1.4% rdg.±0.3 V	
			66 Hz<f≤1 kHz	±1.5% rdg.±0.5 V	-	
1000 V	(50 V to 1000 V)	1 V	15 Hz≤f<45 Hz	±1.5% rdg.±5 V	±2.0% rdg.±5 V	3.0 MΩ±5%
			45 Hz≤f≤66 Hz	±0.9% rdg.±3 V	±1.4% rdg.±3 V	
			66 Hz<f≤1 kHz	±1.5% rdg.±5 V	-	

Auto range movement threshold: 6000 counts or more for upper range, 540 counts or less for lower range.

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

Within the frequency range of f<45 Hz, the accuracy guarantee assumes a superposed DC voltage of less than 500 V.

**AC voltage (PEAK MAX/PEAK MIN)**

Range	(Accuracy guarantee range)	Resolution	Accuracy guarantee frequency range* <sup>1</sup>	Measurement accuracy
6.000 V	(0 V to $\pm 12.00$ V)	0.01 V	15 Hz $\leq$ f<45 Hz	$\pm 1.8\%$ rdg. $\pm 0.07$ V
			45 Hz $\leq$ f $\leq$ 66 Hz	$\pm 1.5\%$ rdg. $\pm 0.07$ V
			66 Hz<f $\leq$ 1 kHz	$\pm 1.8\%$ rdg. $\pm 0.07$ V
60.00 V	( $\pm 3.0$ V to $\pm 120.0$ V)	0.1 V	15 Hz $\leq$ f<45 Hz	$\pm 1.8\%$ rdg. $\pm 0.7$ V
			45 Hz $\leq$ f $\leq$ 66 Hz	$\pm 1.5\%$ rdg. $\pm 0.7$ V
			66 Hz<f $\leq$ 1 kHz	$\pm 1.8\%$ rdg. $\pm 0.7$ V
600.0 V	( $\pm 30$ V to $\pm 1000$ V) <sup>*2</sup>	1 V	15 Hz $\leq$ f<45 Hz	$\pm 1.8\%$ rdg. $\pm 7$ V
			45 Hz $\leq$ f $\leq$ 66 Hz	$\pm 1.5\%$ rdg. $\pm 7$ V
			66 Hz<f $\leq$ 1 kHz	$\pm 1.8\%$ rdg. $\pm 7$ V
1000 V	( $\pm 50$ V to $\pm 1000$ V) <sup>*3</sup>	1 V	15 Hz $\leq$ f<45 Hz	$\pm 1.8\%$ rdg. $\pm 7$ V
			45 Hz $\leq$ f $\leq$ 66 Hz	$\pm 1.5\%$ rdg. $\pm 7$ V
			66 Hz<f $\leq$ 1 kHz	$\pm 1.8\%$ rdg. $\pm 7$ V

Maximum display count for all ranges: 1200/1700 counts

\*1 Frequency range of 15 Hz $\leq$ f<20 Hz is designed value.

Within the frequency range of f<45 Hz, the accuracy guarantee assumes a superposed DC voltage of less than 500 V.

\*2 Values of up to  $\pm 1200$  V are displayed, but accuracy is not defined for display values in excess of 1000 V (which are provided as reference values).

\*3 Values of up to  $\pm 1700$  V are displayed, but accuracy is not defined for display values in excess of 1000 V (which are provided as reference values).

## Accuracy Table

### 10 DC voltage and auto V DC detection

NMRR:	-60 dB or more (50 Hz/60 Hz)
CMRR:	-100 dB or more (DC, 50 Hz/60 Hz, 1 k $\Omega$ unbalance)
Coupling type:	DC coupling
Peak detection time width:	1 ms or more (Filter off)
Overload protection:	Lower of 1870 V DC/1100 V AC or $2 \times 10^7$ V $\cdot$ Hz (energized for 1 minute)

#### DC voltage (Measurement value/MAX/MIN/AVG)

Range	(Accuracy guarantee range)	Resolution	Measurement accuracy	Input impedance (DC input)
600.0 mV	(0.0 mV to $\pm 600.0$ mV)	0.1 mV	$\pm 0.5\%$ rdg. $\pm 0.5$ mV	6.7 M $\Omega$ $\pm 5\%$
6.000 V	(0.000 V to $\pm 6.000$ V)	0.001 V	$\pm 0.5\%$ rdg. $\pm 0.003$ V	6.7 M $\Omega$ $\pm 5\%$
60.00 V	(0.00 V to $\pm 60.00$ V)	0.01 V	$\pm 0.5\%$ rdg. $\pm 0.03$ V	6.1 M $\Omega$ $\pm 5\%$
600.0 V	(0.0 V to $\pm 600.0$ V)	0.1 V	$\pm 0.5\%$ rdg. $\pm 0.3$ V	6.0 M $\Omega$ $\pm 5\%$
1500 V*	(0 V to $\pm 1000$ V)	1 V	$\pm 0.5\%$ rdg. $\pm 3$ V	6.0 M $\Omega$ $\pm 5\%$
	( $\pm 1001$ V to $\pm 1700$ V)	1 V	$\pm 2.0\%$ rdg. $\pm 5$ V	

Auto range movement threshold: 6000 counts or more for upper range, 540 counts or less for lower range.

\* In the 1500 V range, the instrument can withstand input of up to 1000 V continuously or input in excess of 1000 V for no greater than 1 minute.

**DC voltage (PEAK MAX/PEAK MIN Zero to Peak)**

Range	(Accuracy guarantee range)	Resolution	Measurement accuracy
600.0 mV	(0 mV to $\pm 1200$ mV)	1 mV	$\pm 1.0\%$ rdg. $\pm 7$ mV
6.000 V	(0.00 V to $\pm 12.00$ V)	0.01 V	$\pm 1.0\%$ rdg. $\pm 0.07$ V
60.00 V	(0.0 V to $\pm 120.0$ V)	0.1 V	$\pm 1.0\%$ rdg. $\pm 0.7$ V
600.0 V	(0 V to $\pm 1000$ V)	1 V	$\pm 1.0\%$ rdg. $\pm 7$ V
	( $\pm 1001$ V to $\pm 1200$ V)	1 V	$\pm 5.0\%$ rdg. $\pm 7$ V
1500 V	(0 V to $\pm 1000$ V)	1 V	$\pm 1.0\%$ rdg. $\pm 7$ V
	( $\pm 1001$ V to $\pm 1700$ V)	1 V	$\pm 5.0\%$ rdg. $\pm 7$ V

**11 AC+DC voltage and auto V AC detection**

CMRR:	-60 dB or more (DC, 50 Hz/60 Hz, 1 k $\Omega$ unbalance)
Zero-display range:	5 counts or less
Coupling type:	DC coupling
Crest factor:	For 4000 counts or less, 3
	For greater than 4000 counts and less than or equal to 6000 counts, 2
	For 850 V or less, 2 (1000 V range only)
	For greater than 850 V and less than or equal to 1000 V, 1.7
Peak detection time width:	1 ms or more (Filter off)
Overload protection:	Lower of 1870 V DC/1100 V AC or $2 \times 10^7$ V $\cdot$ Hz (energized for 1 minute)
Transient overvoltage:	8000 V

## Accuracy Table

### AC+DC voltage (Measurement value/MAX/MIN/AVG)

Range (Accuracy guarantee range)	Resolution	Accuracy guarantee frequency range*	Measurement accuracy		Input impedance (DC input, AC 50 Hz input)
			Filter off	Filter on	
6.000 V (0.000 V to 0.299 V)	0.001 V	10 Hz≤f<45 Hz	±1.5% rdg.±0.023 V	±2.0% rdg.±0.023 V	DC: 6.7 MΩ±5% AC: 3.2 MΩ±5%
		DC, 45 Hz≤f≤66 Hz	±1.0% rdg.±0.023 V	±1.5% rdg.±0.023 V	
		66 Hz<f≤1 kHz	±1.5% rdg.±0.023 V	-	
6.000 V (0.300 V to 6.000 V)	0.001 V	10 Hz≤f<45 Hz	±1.5% rdg.±0.013 V	±2.0% rdg.±0.013 V	DC: 6.7 MΩ±5% AC: 3.2 MΩ±5%
		DC, 45 Hz≤f≤66 Hz	±1.0% rdg.±0.013 V	±1.5% rdg.±0.013 V	
		66 Hz<f≤1 kHz	±1.5% rdg.±0.013 V	-	
60.00 V (3.00 V to 60.00 V)	0.01 V	10 Hz≤f<45 Hz	±1.5% rdg.±0.13 V	±2.0% rdg.±0.13 V	DC: 6.1 MΩ±5% AC: 3.1 MΩ±5%
		DC, 45 Hz≤f≤66 Hz	±1.0% rdg.±0.13 V	±1.5% rdg.±0.13 V	
		66 Hz<f≤1 kHz	±1.5% rdg.±0.13 V	-	
600.0 V (30.0 V to 600.0 V)	0.1 V	10 Hz≤f<45 Hz	±1.5% rdg.±0.7 V	±2.0% rdg.±0.7 V	DC: 6.0 MΩ±5% AC: 3.0 MΩ±5%
		DC, 45 Hz≤f≤66 Hz	±1.0% rdg.±0.7 V	±1.5% rdg.±0.7 V	
		66 Hz<f≤1 kHz	±1.5% rdg.±0.7 V	-	
1000 V (50 V to 1000 V)	1 V	10 Hz≤f<45 Hz	±1.5% rdg.±7 V	±2.0% rdg.±7 V	DC: 6.0 MΩ±5% AC: 3.0 MΩ±5%
		DC, 45 Hz≤f≤66 Hz	±1.0% rdg.±7 V	±1.5% rdg.±7 V	
		66 Hz<f≤1 kHz	±1.5% rdg.±7 V	-	

Auto range movement threshold: 6000 counts or more for upper range, 540 counts or less for lower range.

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

**AC+DC voltage (PEAK MAX/PEAK MIN)**

Range	(Accuracy guarantee range)	Resolution	Accuracy guarantee frequency range* <sup>1</sup>	Measurement accuracy
6.000 V	(0.00 V to $\pm 12.00$ V)	0.01 V	10 Hz $\leq$ f<45 Hz	$\pm 1.5\%$ rdg. $\pm 0.07$ V
			DC, 45 Hz $\leq$ f $\leq$ 66 Hz	$\pm 1.0\%$ rdg. $\pm 0.07$ V
			66 Hz<f $\leq$ 1 kHz	$\pm 1.5\%$ rdg. $\pm 0.07$ V
60.00 V	( $\pm 3.0$ V to $\pm 120.0$ V)	0.1 V	10 Hz $\leq$ f<45 Hz	$\pm 1.5\%$ rdg. $\pm 0.7$ V
			DC, 45 Hz $\leq$ f $\leq$ 66 Hz	$\pm 1.0\%$ rdg. $\pm 0.7$ V
			66 Hz<f $\leq$ 1 kHz	$\pm 1.5\%$ rdg. $\pm 0.7$ V
600.0 V* <sup>2</sup>	( $\pm 30$ V to $\pm 1000$ V)	1 V	10 Hz $\leq$ f<45 Hz	$\pm 1.5\%$ rdg. $\pm 7$ V
			DC, 45 Hz $\leq$ f $\leq$ 66 Hz	$\pm 1.0\%$ rdg. $\pm 7$ V
			66 Hz<f $\leq$ 1 kHz	$\pm 1.5\%$ rdg. $\pm 7$ V
1000 V* <sup>3</sup>	( $\pm 50$ V to $\pm 1000$ V)	1 V	10 Hz $\leq$ f<45 Hz	$\pm 1.5\%$ rdg. $\pm 7$ V
			DC, 45 Hz $\leq$ f $\leq$ 66 Hz	$\pm 1.0\%$ rdg. $\pm 7$ V
			66 Hz<f $\leq$ 1 kHz	$\pm 1.5\%$ rdg. $\pm 7$ V

\*1 Frequency range of 10 Hz $\leq$ f<20 Hz is designed value.

\*2 Values of up to  $\pm 1200$  V are displayed, but accuracy is not defined for display values in excess of 1000 V (which are provided as reference values).

\*3 Values of up to  $\pm 1700$  V are displayed, but accuracy is not defined for display values in excess of 1000 V (which are provided as reference values).

## Accuracy Table

### 12 Frequency (same for all models)

Frequency is displayed at the same time as the AC current/AC voltage (the frequency is shown on the sub-display when performing ACA/ACV detection with the auto A/auto V function or when using the ACA/ACV function, and on the main display when using the Hz function).

Only auto-range operation is available when performing frequency measurement using the ACA/ACV function (the **RANGE** key is used to switch the current/voltage range).

Minimum detectable current/voltage:

AC voltage 10% of each range's f.s. value

AC current 20.00 A range 4.00 A or more (CM4371, CM4372)

600.0 A range 20.0 A or more (CM4371, CM4372)

600.0 A range 40.0 A or more (CM4373, CM4374)

2000 A range 200 A or more (CM4373, CM4374)

In the following circumstances, the instrument will display [**----**Hz] as the value is outside the measurement range:

- Less than 1 Hz.
- If the AC current or AC voltage is less than the minimum detectable current or voltage or outside the input range.
- If there is a superposed DC component when performing ACA/ACV detection with the auto A/auto V function.

**Frequency (Measurement value/MAX/MIN/AVG)**

Range	(Accuracy guarantee range)	Resolution	Measurement accuracy
9.999 Hz	(1.000 Hz to 9.999 Hz)	0.001 Hz	$\pm 0.1\%$ rdg. $\pm 0.003$ Hz
99.99 Hz	(1.00 Hz to 99.99 Hz)	0.01 Hz	$\pm 0.1\%$ rdg. $\pm 0.01$ Hz
999.9 Hz	(1.0 Hz to 999.9 Hz)	0.1 Hz	$\pm 0.1\%$ rdg. $\pm 0.1$ Hz

Auto range movement threshold: 9999 counts or more for upper range, 900 counts or less for lower range.

**13 Continuity check (same for all models)**

Continuity on threshold:	25 $\Omega$ $\pm$ 10 $\Omega$ (continuous buzzer sound, red warning backlight lights up)
Continuity off threshold:	245 $\Omega$ $\pm$ 10 $\Omega$
Conditions of guaranteed accuracy:	After zero adjustment has been performed
Response time:	Detection of open or short for 0.5 ms or more
Overload protection:	Lower of 1700 V/1000 V AC or $2 \times 10^7$ V $\cdot$ Hz (energized for 1 minute)
Overload current:	30 mA or less at steady state, 1.5 A or less at transient state

Range	(Accuracy guarantee range)	Resolution	Measurement current	Measurement accuracy	Open terminal voltage
600.0 $\Omega$	(0.0 $\Omega$ to 600.0 $\Omega$ )	0.1 $\Omega$	200 $\mu$ A $\pm$ 20%	$\pm 0.7\%$ rdg. $\pm 0.5$ $\Omega$	2.0 V DC or less

## Accuracy Table

### 14 Resistance measurement (same for all models)

Maximum capacity load: 10 mF

Maximum inductive load: 10 H

Conditions of guaranteed accuracy: After zero adjustment has been performed

Overload protection: Lower of 1700 V DC/1000 V AC or  $2 \times 10^7$  V · Hz (energized for 1 minute)

Overload current: 30 mA or less at steady state, 1.5 A or less at transient state

#### Resistance measurement (Measurement value/MAX/MIN/AVG)

Range	(Accuracy guarantee range)	Resolution	Measurement current	Measurement accuracy	Open terminal voltage
600.0 $\Omega$	(0.0 $\Omega$ to 600.0 $\Omega$ )	0.1 $\Omega$	200 $\mu\text{A} \pm 20\%$	$\pm 0.7\%$ rdg. $\pm 0.5 \Omega$	2.0 V DC or less
6.000 k $\Omega$	(0.000 k $\Omega$ to 6.000 k $\Omega$ )	0.001 k $\Omega$	100 $\mu\text{A} \pm 20\%$	$\pm 0.7\%$ rdg. $\pm 0.005$ k $\Omega$	2.0 V DC or less
60.00 k $\Omega$	(0.00 k $\Omega$ to 60.00 k $\Omega$ )	0.01 k $\Omega$	10 $\mu\text{A} \pm 20\%$	$\pm 0.7\%$ rdg. $\pm 0.05$ k $\Omega$	2.0 V DC or less
600.0 k $\Omega$	(0.0 k $\Omega$ to 600.0 k $\Omega$ )	0.1 k $\Omega$	1 $\mu\text{A} \pm 20\%$	$\pm 0.7\%$ rdg. $\pm 0.5$ k $\Omega$	2.0 V DC or less

Auto range movement threshold: 6000 counts or more for upper range, 540 counts or less for lower range.

**15 Diode (same for all models)**

Overload protection: Lower of 1700 V DC/1000 V AC or  $2 \times 10^7$  V · Hz (energized for 1 minute)

Overload current: 30 mA or less at steady state, 1.5 A or less at transient state

Range	(Accuracy guarantee range)	Resolution	Short-circuit current	Measurement accuracy	Open terminal voltage
1.800 V	(0.000 V to 1.800 V)	0.001 V	200 $\mu$ A $\pm$ 20%	$\pm$ 0.7% rdg. $\pm$ 0.005 V	2.0 V DC or less

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

Continuous buzzer tone and red backlight lights up if less than 0.15 V.

**16 Electrostatic capacity (same for all models)**

Overload protection: Lower of 1700 V DC/1000 V AC or  $2 \times 10^7$  V · Hz (energized for 1 minute)

Overload current: 30 mA or less at steady state, 1.5 A or less at transient state

## Accuracy Table

### Electrostatic capacity (Measurement value/MAX/MIN/AVG)

Range	(Accuracy guarantee range)	Resolution	Discharge current	Measurement accuracy	Open terminal voltage
1.000 $\mu\text{F}$	(0.000 $\mu\text{F}$ to 1.100 $\mu\text{F}$ )	0.001 $\mu\text{F}$	10 n/100 n/1 $\mu\text{A}\pm 20\%$	$\pm 1.9\%$ rdg. $\pm 0.005$ $\mu\text{F}$	2.0 V DC or less
10.00 $\mu\text{F}$	(0.00 $\mu\text{F}$ to 11.00 $\mu\text{F}$ )	0.01 $\mu\text{F}$	100 n/1 $\mu/10$ $\mu\text{A}\pm 20\%$	$\pm 1.9\%$ rdg. $\pm 0.05$ $\mu\text{F}$	2.0 V DC or less
100.0 $\mu\text{F}$	(0.0 $\mu\text{F}$ to 110.0 $\mu\text{F}$ )	0.1 $\mu\text{F}$	1 $\mu/10$ $\mu/100$ $\mu\text{A}\pm 20\%$	$\pm 1.9\%$ rdg. $\pm 0.5$ $\mu\text{F}$	2.0 V DC or less
1000 $\mu\text{F}$	(0 $\mu\text{F}$ to 1100 $\mu\text{F}$ )	1 $\mu\text{F}$	10 $\mu/100$ $\mu/200$ $\mu\text{A}\pm 20\%$	$\pm 1.9\%$ rdg. $\pm 5$ $\mu\text{F}$	2.0 V DC or less

Auto range movement threshold: 1100 counts or more for upper range, 100 counts or less for lower range.

## 17 Temperature (same for all models)

Thermocouple:

Use the DT4910 Thermocouples (K).

Accuracy figures do not include the DT4910 Thermocouples (K) error component. [DT4910 error:  $\pm 2.5^\circ\text{C}$  (Class 2)]

Instrument reference contact temperature correction stabilization time:

120 minutes (when ambient temperature is varied abruptly from  $60^\circ\text{C}$  to  $23^\circ\text{C}$ )

Overload protection:

Lower of 1700 V DC/1000 V AC or  $2 \times 10^7$  V  $\cdot$  Hz (energized for 1 minute)

Overload current:

30 mA or less at steady state, 1.5 A or less at transient state

**Temperature (Measurement value/MAX/MIN/AVG)**

Thermocouple type	Range	Resolution	Accuracy* <sup>1</sup>
K	-40.0°C to 400.0°C	0.1°C	±0.5% rdg.±3.0°C
	-40°F to 752°F* <sup>2</sup>	0.1°F	±0.5% rdg.±5.4°F

\*1: In an environment where the temperature of the instrument is ±1°C and stable, the accuracy is specified.

\*2: Instrument can be made to display readings in Fahrenheit (°F) by means of special operation.

**18 Electric charge detection**

During voltage detection, a continuous buzzer sounds and the red warning backlight lights up.

Range (detection sensitivity)	Detection voltage range*	Detection target frequency
Hi	40 V AC to 600 V AC	50 Hz/60 Hz
Lo	80 V AC to 600 V AC	50 Hz/60 Hz

\* In contact with the insulated wire that is equivalent to IV2 mm<sup>2</sup>.

## Accuracy Table

### **19 DC power 600.0 A (CM4371, CM4372)**

Displays the product of DC current and DC voltage.

Accuracy guarantee conditions, zero-display range, connection method, and band depend on the DC current and DC voltage.

Display range switching*	Minimum resolution	Measurement accuracy
0.0 VA to 1020 kVA	0.1 VA	$\pm 2.0\%$ rdg. $\pm 20$ dgt.

\* Switches the display range automatically based on the voltage range.

### **20 DC power 2000 A (CM4373, CM4374)**

Displays the product of DC current and DC voltage.

Accuracy guarantee conditions, zero-display range, connection method, and band depend on the DC current and DC voltage.

Display range switching*	Minimum resolution	Measurement accuracy
0.000 kVA to 3400 kVA	1 VA	$\pm 2.0\%$ rdg. $\pm 20$ dgt.

\* Switches the display range automatically based on the voltage range.

## Warranty Certificate

# HIOKI

Model	Serial number	Warranty period Three (3) years from date of purchase ( ___ / ___ / ___ )
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Customer name: \_\_\_\_\_  
Customer address: \_\_\_\_\_

### Important

- Please retain this warranty certificate. Duplicates cannot be reissued.
- Complete the certificate with the model number, serial number, and date of purchase, along with your name and address. The personal information you provide on this form will only be used to provide repair service and information about Hioki products and services.

This document certifies that the product has been inspected and verified to conform to Hioki's standards. Please contact the place of purchase in the event of a malfunction and provide this document, in which case Hioki will repair or replace the product subject to the warranty terms described below.

### Warranty terms

- The product is guaranteed to operate properly during the warranty period (three [3] years from the date of purchase). If the date of purchase is unknown, the warranty period is defined as three (3) years from the date (month and year) of manufacture (as indicated by the first four digits of the serial number in YYMM format).
- If the product came with an AC adapter, the adapter is warranted for one (1) year from the date of purchase.
- The accuracy of measured values and other data generated by the product is guaranteed as described in the product specifications.
- In the event that the product or AC adapter malfunctions during its respective warranty period due to a defect of workmanship or materials, Hioki will repair or replace the product or AC adapter free of charge.
- The following malfunctions and issues are not covered by the warranty and as such are not subject to free repair or replacement:
  - Malfunctions or damage of consumables, parts with a defined service life, etc.
  - Malfunctions or damage of connectors, cables, etc.
  - Malfunctions or damage caused by shipment, dropping, relocation, etc., after purchase of the product
  - Malfunctions or damage caused by inappropriate handling that violates information found in the instruction manual or on precautionary labeling on the product itself
  - Malfunctions or damage caused by a failure to perform maintenance or inspections as required by law or recommended in the instruction manual
  - Malfunctions or damage caused by fire, storms or flooding, earthquakes, lightning, power anomalies (involving voltage, frequency, etc.), war or unrest, contamination with radiation, or other acts of God
  - Damage that is limited to the product's appearance (cosmetic blemishes, deformation of enclosure shape, fading of color, etc.)
  - Other malfunctions or damage for which Hioki is not responsible
- The warranty will be considered invalidated in the following circumstances, in which case Hioki will be unable to perform service such as repair or calibration:
  - If the product has been repaired or modified by a company, entity, or individual other than Hioki
  - If the product has been embedded in another piece of equipment for use in a special application (aerospace, nuclear power, medical use, vehicle control, etc.) without Hioki's having received prior notice
- If you experience a loss caused by use of the product and Hioki determines that it is responsible for the underlying issue, Hioki will provide compensation in an amount not to exceed the purchase price, with the following exceptions:
  - Secondary damage arising from damage to a measured device or component that was caused by use of the product
  - Damage arising from measurement results provided by the product
  - Damage to a device other than the product that was sustained when connecting the device to the product (including via network connections)
- Hioki reserves the right to decline to perform repair, calibration, or other service for products for which a certain amount of time has passed since their manufacture, products whose parts have been discontinued, and products that cannot be repaired due to unforeseen circumstances.

**HIOKI E.E. CORPORATION**  
<http://www.hioki.com>

18-07 EN-3





# HIOKI

<http://www.hioki.com>



**All regional  
contact  
information**

## **HEADQUARTERS**

81 Koizumi  
Ueda, Nagano 386-1192 Japan

## **HIOKI EUROPE GmbH**

Rudolf-Diesel-Strasse 5  
65760 Eschborn, Germany  
[hioki@hioki.eu](mailto:hioki@hioki.eu)

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