A Full Line-up of Digital and Analog Clamp Meters to Suit Any Need

Please see www.hioki.com for list of supported regions.
## Selection Guide

### A Complete HIOKI Digital & Analog Clamp Tester

### New insulated sleeves prevent short-circuits

- **No sleeves attached to the tip of test leads?**
- **DANGER of short-circuit accident!!**

With sleeve attached to the tip of test leads, short-circuit accidents can be prevented.

- **NEW!**

### Conforms to safety standard

**IEC61010-031 (revised) for hand-held probes**

What are the new and additional requirements of the international safety standards?

1. "Exposed metal part must be 4mm or shorter" (Previously, 19mm max.) for CAT III and IV environments to prevent short-circuits from occurring.
2. Double-coating with different colors enables you to identify the wear condition of the test leads. (Previously, single-coated)

### Specifications

#### True RMS rectifier

- Model: CM4371, CM4372
- Value: 7.5 at 20.00 A range
- Value: 7.5 at 2000 A range

#### MEAN rectifier

- Model: CM4373, CM4374
- Value: 2.4 or less at 20000 A range
- Value: 2.5 or less at 20000 A range

#### Basic accuracy

- Model: CM4371, CM4372, CM4373, CM4374
- Value: ±0.5% rdg. ±3 dgt.
- Value: ±1.5% rdg. ±5 dgt.
- Value: ±1.5% rdg. ±5 dgt.
- Value: ±1% rdg. ±5 dgt.

#### Crest factor

- Model: CM4371, CM4372, CM4373, CM4374
- Value: 2.84 or less at 2000 A range
- Value: 3 or less at 6000 A range
- Value: 2.5 or less at 20000 A range

#### Continuity

- Model: CM4371, CM4372, CM4373, CM4374
- Value: 10 Hz to 1 kHz
- Value: 15 Hz to 1 kHz
- Value: 20 Hz to 1 kHz
- Value: 40 Hz to 1 kHz

#### Frequency (Hz)

- Model: CM4371, CM4372, CM4373, CM4374
- Value: 4

#### Distortion check

- Model: CM4371, CM4372, CM4373, CM4374
- Value: 7.5 or less at 1000 A range
- Value: 2.5 or less at 2000 A range
- Value: 2.84 or less at 2000 A range
- Value: 3 or less at 6000 A range

#### Electromagnetic emissions

- Model: CM4371, CM4372, CM4373, CM4374
- Value: 2.5 or less

#### Crest factor

- Model: CM4371, CM4372, CM4373, CM4374
- Value: 2.5 or less

#### Conformity

- Model: CM4371, CM4372, CM4373, CM4374
- Value: Complies with IEC61010-031 (revised) for hand-held probes

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### Power supply

- Model: CM4371, CM4372, CM4373, CM4374
- Value: CM4371, CM4372: 9 V DC (non-rechargeable), 6F22 (006P) x 1
- Value: CM4373, CM4374: 9 V DC (non-rechargeable), 6F22 (006P) x 1

### Dimensions and mass

- Model: CM4371, CM4372, CM4373, CM4374
- Value: 65 mm (2.56 in) W × 215 mm (8.46 in) H × 65 mm (2.56 in) D, 340 g (12.0 oz)
- Value: 65 mm (2.56 in) W × 250 mm (9.84 in) H × 75 mm (3.78 in) D, 340 g (12.0 oz)

### Other functions

- Automatic AC/DC detection, Plus/Minus judgment function of DC A, DC V, Max/Average/PEAK MAX/PEAK MIN
- Filter function, Display value, Filter function, Display value, Auto power save, Auto hold, Back light, Auto-power save, Auto power save, Auto hold, Back light, Auto-power save

### Display refresh rate

- Model: CM4371, CM4372, CM4373, CM4374
- Value: 5 times/s
- Value: 2.5 times/s
- Value: 2.5 times/s
- Value: 1 time/3s

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### Notes

- **Conformity**
  - Complies with IEC61010-031 (revised) for hand-held probes

### Manufacturing information

- **Conforms to safety standard**
  - IEC61010-031 (revised) for hand-held probes

### Dimensions and mass

- Model: CM4371, CM4372, CM4373, CM4374
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- Filter function, Display value, Filter function, Display value, Auto power save, Auto hold, Back light, Auto-power save, Auto power save, Auto hold, Back light, Auto-power save

### Display refresh rate

- Model: CM4371, CM4372, CM4373, CM4374
- Value: 5 times/s
- Value: 2.5 times/s
- Value: 2.5 times/s, 1 time/3s

### Max. rated voltage to earth

- Model: CM4371, CM4372, CM4373, CM4374
- Value: 600 V AC rms
- Value: 600 V AC rms
- Value: 600 V AC rms
- Value: 600 V AC rms

### Measurement categories (current)

- Model: CM4371, CM4372, CM4373, CM4374
- Value: CAT IV 600 V
- Value: CAT IV 600 V
- Value: CAT IV 600 V
- Value: CAT IV 600 V

### Measurement categories (voltage)

- Model: CM4371, CM4372, CM4373, CM4374
- Value: CAT IV 600 V
- Value: CAT IV 600 V
- Value: CAT IV 600 V
- Value: CAT IV 600 V

### Core jaw diameter

- Model: CM4371, CM4372, CM4373, CM4374
- Value: φ33 mm
- Value: φ35 mm
- Value: φ33 mm
- Value: φ33 mm

### Power supply

- Model: CM4371, CM4372, CM4373, CM4374
- Value: LR03 Alkaline battery ×2
- Value: LR03 Alkaline battery ×2
- Value: LR03 Alkaline battery ×2
- Value: LR03 Alkaline battery ×2

### Model

- Model: CM4371, CM4372, CM4373, CM4374
- Value: CM4371, CM4372: 9 V DC (non-rechargeable), 6F22 (006P) x 1
- Value: CM4373, CM4374: 9 V DC (non-rechargeable), 6F22 (006P) x 1

### Dimensions and mass

- Model: CM4371, CM4372, CM4373, CM4374
- Value: 65 mm (2.56 in) W × 215 mm (8.46 in) H × 65 mm (2.56 in) D, 340 g (12.0 oz)
- Value: 65 mm (2.56 in) W × 250 mm (9.84 in) H × 75 mm (3.78 in) D, 340 g (12.0 oz)

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### Notes

- **Conformity**
  - Complies with IEC61010-031 (revised) for hand-held probes

### Dimensions and mass

- Model: CM4371, CM4372, CM4373, CM4374
- Value: 65 mm (2.56 in) W × 215 mm (8.46 in) H × 65 mm (2.56 in) D, 340 g (12.0 oz)
- Value: 65 mm (2.56 in) W × 250 mm (9.84 in) H × 75 mm (3.78 in) D, 340 g (12.0 oz)

### Other functions

- Automatic AC/DC detection, Plus/Minus judgment function of DC A, DC V, Max/Average/PEAK MAX/PEAK MIN
- Filter function, Display value, Filter function, Display value, Auto power save, Auto hold, Back light, Auto-power save, Auto power save, Auto hold, Back light, Auto-power save
**Line-up to Suit Your Needs**

<table>
<thead>
<tr>
<th>Model</th>
<th>3284, 3285</th>
<th>3287, 3288, 3288-20</th>
<th>3291-50</th>
<th>3283, 3283-20</th>
<th>3293-50</th>
</tr>
</thead>
<tbody>
<tr>
<td>True RMS rectifier</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>MEAN rectifier</td>
<td>N/A</td>
<td>3288</td>
<td>✔</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>AC Current ranges</td>
<td>(3284) 20.0/ 200.0 A</td>
<td>(3287) 10.0/ 100.0 A</td>
<td>(3287) 10.0/ 100.0 A</td>
<td>(3288/3288-20) 100.0/ 1000 A</td>
<td>60.0/ 600.0/ 1000 A</td>
</tr>
<tr>
<td>AC Voltage ranges</td>
<td>30.00/ 300.0/ 600 V</td>
<td>30.00/ 300.0/ 600 V</td>
<td>30.00/ 300.0/ 600 V</td>
<td>(3287) 10.0/ 100.0 A</td>
<td>(3288/3288-20) 100.0/ 1000 A</td>
</tr>
<tr>
<td>Frequency characteristics</td>
<td>(3284) DC, 10 to 2 kHz (3285) DC, 10 to 1 kHz</td>
<td>(3287) DC, 10 to 1 kHz (3288/3288-20) DC, 10 to 500 Hz AC V: 30 to 500 Hz</td>
<td>45 to 400 Hz</td>
<td>40 to 2 kHz</td>
<td>45 to 400 Hz</td>
</tr>
<tr>
<td>DC Current ranges</td>
<td>(3284) 20.0/ 200.0 A</td>
<td>(3287) 20.0/ 2000 A</td>
<td>(3287) 4.200/ 42.00/ 420.0/ 600 V</td>
<td>(3288/3288-20) 4.200/ 42.00/ 420.0/ 600 V</td>
<td>N/A</td>
</tr>
<tr>
<td>DC Voltage ranges</td>
<td>30.00/ 300.0/ 600 V</td>
<td>30.00/ 300.0/ 600 V</td>
<td>420.0/ 42.00/ 420.0/ 600 V</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Basic accuracy (at 50/60Hz)</td>
<td>AC A: ±1.3% rdg. ±3 dgt.</td>
<td>AC A: ±1.5% rdg. ±5 dgt.</td>
<td>AC A: ±1.5% rdg. ±5 dgt.</td>
<td>AC A: ±1.5% rdg. ±5 dgt.</td>
<td>AC A: ±1.5% rdg. ±5 dgt.</td>
</tr>
<tr>
<td>Resistance ranges</td>
<td>N/A</td>
<td>420.0 Ω to 600 MA, 6 ranges</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Continuity</td>
<td>N/A</td>
<td>✔</td>
<td>N/A</td>
<td>✔</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency (Hz)</td>
<td>N/A</td>
<td>✔</td>
<td>N/A</td>
<td>✔</td>
<td>N/A</td>
</tr>
<tr>
<td>Other functions</td>
<td>AC+DC mode, Max./Min./Average value record, Data hold, Peak hold, Auto power off, Auto zero</td>
<td>Data hold, Auto power save, Auto zero (DC A)</td>
<td>N/A</td>
<td>Filter function, Max./Min./Average value record, Data hold, Auto power off</td>
<td>N/A</td>
</tr>
<tr>
<td>Monitor / Analog output</td>
<td>✔</td>
<td>✔</td>
<td>N/A</td>
<td>✔</td>
<td>N/A</td>
</tr>
<tr>
<td>Display refresh rate</td>
<td>4 times/s (FAST), 1 time/3s (SLOW)</td>
<td>2.5 times/s</td>
<td>1.1 sec or less</td>
<td>4 times/s (Fast), 1 time/3s (Slow), 4 times/s (bar graph)</td>
<td>1.1 sec or less</td>
</tr>
<tr>
<td>Max. rated voltage to earth</td>
<td>600 V AC rms</td>
<td>600 V AC rms</td>
<td>600 V AC rms</td>
<td>300 V AC rms</td>
<td>300 V AC rms</td>
</tr>
<tr>
<td>Power supply</td>
<td>6F22 (006P) × 1, or AC adapter</td>
<td>CR2032 × 1</td>
<td>CR2032 × 1</td>
<td>3283: 6LR61/6F22 (006P) × 1, 3283-20: 6LR61/6F22 (006P) × 1, or AC Adapter</td>
<td>CR2032 × 1</td>
</tr>
</tbody>
</table>

### Model

<table>
<thead>
<tr>
<th>Model</th>
<th>3284</th>
<th>3287</th>
<th>3288</th>
<th>3288-20</th>
<th>3291-50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions and mass</td>
<td>62 mm (2.44 in) W × 230 mm (9.06 in) H × 39 mm (1.54 in) D, 460 g (16.2 oz)</td>
<td>57 mm (2.24 in) W × 180 mm (7.09 in) H × 35 mm (1.35 in) D, 170 g (6.0 oz)</td>
<td>50 mm (1.97 in) W × 136 mm (5.35 in) H × 26 mm (1.02 in) D, 115 g (4.1 oz)</td>
<td>62 mm (2.44 in) W × 225 mm (8.86 in) H × 39 mm (1.54 in) D, 400 g (14.1 oz)</td>
<td>50 mm (1.97 in) W × 130 mm (5.12 in) H × 26 mm (1.02 in) D, 135 g (4.8 oz)</td>
</tr>
</tbody>
</table>

### Model

<table>
<thead>
<tr>
<th>Model</th>
<th>3285</th>
<th>3287</th>
<th>3288</th>
<th>3288-20</th>
<th>3293-50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions and mass</td>
<td>62 mm (2.44 in) W × 260 mm (10.24 in) H × 39 mm (1.54 in) D, 540 g (19.0 oz)</td>
<td>57 mm (2.24 in) W × 180 mm (7.09 in) H × 35 mm (1.35 in) D, 170 g (6.0 oz)</td>
<td>50 mm (1.97 in) W × 136 mm (5.35 in) H × 26 mm (1.02 in) D, 115 g (4.1 oz)</td>
<td>62 mm (2.44 in) W × 225 mm (8.86 in) H × 39 mm (1.54 in) D, 400 g (14.1 oz)</td>
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</tr>
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</table>

### Accessories:

**TEST LEAD L9208/ L9207-10/ L9207-30**

**Sleeve attached CAT III, CAT IV**

- CAT IV 600V
- CAT III 1000V

**No sleeve attached CAT II 1000V**

- When the CAT (measurement category) rating of the main unit is lower than that of test leads, the CAT of the main unit takes precedence. When measuring in a CAT IV or CAT III environment, be sure to attach the sleeve to the test leads.

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**Sleeve included as a standard accessory (This sleeve cannot be attached to previous products).**

When a sleeve is not attached, the test leads can only be used in a CAT II environment.
Pocket size CLAMP SERIES

AC CLAMP METER

3280-10F 3280-20F

Rugged & Compact

- 3280-10F: MEAN Value / 3280-20F: True RMS
- AC 1000 A clamp aperture: 33 mm dia.
- Slim body allows easy clamping even for narrow conductors
- Expanded -25 °C to 65 °C operating temperature range
- Connect the CT6280 flexible sensor to measure up to 4199 A in thick or paired wires

Order Code

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3280-10F (MEAN value)</td>
<td>3280-20F (True RMS)</td>
</tr>
<tr>
<td>3280-70F (MEAN value)</td>
<td>3280-90F (True RMS)</td>
</tr>
</tbody>
</table>

Accessories (3280-10F, 3280-20F)

- TEST LEAD L9208 ×1
- CARRYING CASE 9398 ×1
- Instruction manual ×1
- Coin type lithium battery (CR2032) ×1

Options

- AC FLEXIBLE CURRENT SENSOR CT6280
- CARRYING CASE C0205
- TEST LEADS HOLDER 9209
- CONTACT PIN SET L4933
- SMALL ALLIGATOR CLIP SET L4934

CLAMP ON AC/DC HiTESTER

3287 3288

Compact & easy, one-touch maintenance on all types of AC/DC equipment

- New Model 3288-20 True RMS AC/DC pocket clamp meter measuring up to 1000 A further expands the HIOKI lineup
- The 3287 can handle even cogenerator / inverter energy-saving equipment (10/ 100A)
- Use the 3288 for high current measurements such as UPS emergency batteries and train motors (100/ 1000A)
- A slim core of only 10 mm (0.39") for easy clamping even in crowded wiring

Order Code

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3287 (True RMS, 10 A AC/DC)</td>
<td>3288 (MEAN value, 1000 A AC/DC)</td>
</tr>
<tr>
<td>3288-20 (True RMS, 1000 A AC/DC)</td>
<td></td>
</tr>
</tbody>
</table>

Accessories 3287/ 3288-20

- TEST LEAD L0208 ×1
- CARRYING CASE 9398 ×1
- Instruction manual ×1

True RMS vs. MEAN Value

Two ways to convert alternating current to RMS are “true RMS response” and “average rectified RMS response” (averaging). Both display the same value for a sine wave, but can display very different values for distorted waveforms.

- True RMS
- MEAN Value

Use with an AC Clamp Meter to measure large wires and currents.

When measuring current waveforms distorted by inverters...

High-frequency waveform components are included in the calculated RMS display value.

The measured waveform is treated as a single-frequency (undistorted) sine wave, and the calculated average of the AC signal is converted to an RMS display value. Measurement error increases with waveform distortion.

As inverters and switching power supplies proliferate, the need for the capability to measure distorted current waveforms grows.

A true RMS clamp-on current meter is the proper tool for accurate measurements.
AC/DC CLAMP METER

CM4371 CM4372 CM4373 CM4374

Rugged clamp meters for the toughest situations

- CM4371, CM4372: 600 Arms, clamp aperture: 33 mm dia.
- CM4373, CM4374: 2000 Arms, clamp aperture: 55 mm dia.
- CM4372 and CM4374 will be able to send measured values to a smart phone or tablet using Bluetooth® wireless technology
- Multiple measurement functions
- Expanded -25 °C to 65 °C operating temperature range
- IP54 dustproof and waterproof enclosure

*Jaws (current sensor portion): IP50

Inrush (Rush current)

The CM4370 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).

Automatic AC/DC detection

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.

AUTO HOLD

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.

Making measurement more intelligent

The instruments listed below will be able to wirelessly send measured values to a smartphone or tablet using Bluetooth® wireless technology, enabling you to display measured values and waveforms in real time. (CM4372, CM4374)

3 year Guarantee

Damage-resistant jaws

A 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.

Dustproof and waterproof IP54

*Jaws (current sensor portion): IP50

Rotary switch that can be turned with a single hand

Remain alert to hazards

When the clamp meter detects excessively high input or a short-circuit during a continuity check, it alerts you with a red backlight and beeping tone in order to help prevent accidents.

1700 V DC

The CM4370 Series can measure DC voltages of up to 1700 V, making them ideal for no-load voltage inspections of rapidly evolving solar power systems.

Order Code

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Code</th>
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<tbody>
<tr>
<td>CM4371 (True RMS, 600 A AC/DC)</td>
<td>L4933</td>
</tr>
<tr>
<td>CM4372 (True RMS, 600 A AC/DC, built-in Bluetooth® wireless technology)</td>
<td>L4934</td>
</tr>
<tr>
<td>CM4373 (True RMS, 2000 A AC/DC)</td>
<td>L4935</td>
</tr>
<tr>
<td>CM4374 (True RMS, 2000 A AC/DC, built-in Bluetooth® wireless technology)</td>
<td>L4936</td>
</tr>
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Accessories

<table>
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<tr>
<th>Accessory</th>
<th>Code</th>
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<td>TEST LEAD L9207-10 x1</td>
<td>L4930</td>
</tr>
<tr>
<td>CARRYING CASE C0203 x1</td>
<td>L4931</td>
</tr>
<tr>
<td>LR03 Alkaline battery x2</td>
<td>L4932</td>
</tr>
<tr>
<td>Instruction manual x1</td>
<td>L4933</td>
</tr>
</tbody>
</table>

Precautions Concerning Use of Equipment That Emits Radio Waves

Options

- TEST LEAD L9207-10 x1
- CARRYING CASE C0203 x1
- LR03 Alkaline battery x2
- Instruction manual x1
- [CM4372, CM4374 only]

Protection against overloads

- Protection against overloads
- Protection against short-circuits
DIGITAL CLAMP ON HiTESTER
3281  3282

The true RMS is shown in the distorted waveform

- 3281: 600A ACrms, Φ33mm dia.
- 3282: 1000A ACrms, Φ46mm dia.
- Non-fuse type protects up to 600VAC

Order Code
3281 (True RMS, 600 A AC)  3282 (True RMS, 1000 A AC)

Accessories
TEST LEAD L9207-10 ×1
CARRYING CASE 9399 ×1
Hand strap ×1
Instruction manual x1
Stacked manganese battery (6F22) x1

CLAMP ON AC/DC HiTESTER
3284  3285

Analysis for DC to distorted waves

- 3284: 200 Arms, clamp aperture: 33 mm dia.
- 3285: 2000 Arms, clamp aperture: 55 mm dia.
- Inrush current peak value
- RMS value of full-wave rectified waveforms
- Waveform and harmonic analysis

The AC+DC mode enables measurement of the RMS value of full- or half-wave rectified waveforms used in electrical machinery.

Easily monitor current fluctuations

Using the external output functions of the 3284 or 3285 in combination with a HIOKI Memory HiCorder enables recording of current and frequency fluctuations and recording and harmonic analysis of instantaneous waveforms.

Order Code
3284 (True RMS, 200 A AC/DC, Not CE marked)  3285 (True RMS, 2000 A AC/DC, Not CE marked)

Accessories
TEST LEAD L9207-10 ×1
CARRYING CASE (for 3284)  9399 ×1
CARRYING CASE (for 3285)  9345 ×1
Hand strap ×1
Instruction manual ×1
OUTPUT CORD
(Connect to Banana terminal) L9094
(output format: Waveform, RMS, Peak, Frequency output)

Options
AC ADAPTER (for USA)  9445-02
AC ADAPTER (for EU)  9445-03
CLAMP ON ADAPTER  9290-10
OUTPUT CORD
(Connect to BNC terminal) L9095
(Connect to terminal block) L9096

Multi-functional Display Unit to Use Right on the Field or Output to Advanced Recorder or Logger

DISPLAY UNIT CM7290  CM7291

- Send measured values to a smartphone or tablet using Bluetooth® wireless technology (CM7291)
- Use the GENNECT Cross dedicated app to display and review measured values and waveforms in real time (CM7291)
- Simultaneous dual display of the measured values, frequency, and output rate
- Four output formats to output data to loggers or other devices (via Display Unit)
Flip CLAMP and Leak CLAMP SERIES

CLAMP ON HiTESTER 3291-50
CLAMP ON LEAK HiTESTER 3293-50

Easily read measured values from all heights with the adjustable display

3291-50 Overview
- Innovative flip clamp design
- Flip display to see measurement readings from any angle
- Max. 1000A, 3 ranges, Bar graph display
- Filter out high frequency noises for a clean signal

3293-50 Overview
- Measure for leakage current and load all with the same device
- Innovative flip clamp design
- Flip display to see measurement readings from any angle
- 1mA to 1000A accuracy guaranteed, 6 ranges and bar graph display
- Measure and display only the leakage current of commercial frequency components using the filter function

CLAMP ON LEAK HiTESTER 3283

1mA to 200A AC Leakage Current Clamp Meter with 10 μA Resolution to Analyze Distorted Waveforms

- Measure leak current using highly sensitive 10μA resolution (at 10.00 mA range)
- Indicate 50/60 Hz leak current components with the filtering function
- Monitor leak current conditions in combination with a Memory HiCorder (monitor output, Model 3283 only)
- 3283-20: EN 61010-2-032:2012 Type A to measure uninsulated hazardous live conductors such as busbars

Filtering
Sharp Low-pass filter reduces harmonic currents.

Easily monitor leakage current fluctuations
In combination with a HIOKI Memory HiCorder the 3283 can be used for long-term monitoring for leakage current fluctuations.

Order Code
3283
3283-20

Options
AC ADAPTER (for USA) 9445-02
AC ADAPTER (for EU) 9445-03
CLAMP ON ADAPTER 9290-10
OUTPUT CORD 1.9094
(Connect to Banana terminal)
OUTPUT CORD 1.9095
(Connect to BNC terminal)
OUTPUT CORD 1.9096
(Connect to terminal block)

Accessories
CARRYING CASE 9399 x1
Hand strap x1 Instruction manual x1
3283-20: Alkaline battery (6LR61) x1

Order Code
3291-50
3293-50

Accessories
CARRYING CASE 9757 x1
Hand strap x1 Instruction manual x1
Coin type lithium battery (CR2032) x1

Easily read measured values from all heights with the adjustable display

Flip Display!
Easy-to-read measurements

Filtering
Sharp Low-pass filter reduces harmonic currents.

Easily monitor leakage current fluctuations
In combination with a HIOKI Memory HiCorder the 3283 can be used for long-term monitoring for leakage current fluctuations.
AC CLAMP POWER METER CM3286

Quickly Check Current, Voltage, Power, and Power Factor

- Display four parameters simultaneously
- A handheld power meter that measures from 5 W of power and 60 mA of current. Measures power ranging from 5 W at a low current of 60 mA to 360 kW.
- In addition to current, voltage, and power, measure simple integral power consumption and phase sequence.
- Features and functions deliver fast and efficient testing.
- Hold measured values to send them to a smartphone, quick and easy data recording (CM3286-01 only)

**Basic specifications** (Accuracy guaranteed for 1 year. Post-adjustment accuracy guaranteed for 1 year)

<table>
<thead>
<tr>
<th>Measurement line</th>
<th>Single-phase, Three-phase (should be balanced and no distortion)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. rated voltage to earth</td>
<td>600 Vrms (CAT IV), 1000 Vrms (CAT III)</td>
</tr>
<tr>
<td>AC voltage (Frequency characteristics)</td>
<td>80.0 V to 600.0 V, Single range (45 Hz to 1 kHz)</td>
</tr>
<tr>
<td>Basic accuracy</td>
<td>45 to 66 Hz: ±1.3 %rdg. ±3 dgt.</td>
</tr>
<tr>
<td>AC current (Frequency characteristics)</td>
<td>0.060 A to 600.0 A, 3 range (45 Hz to 1 kHz)</td>
</tr>
<tr>
<td>Basic accuracy</td>
<td>45 to 66 Hz: ±1.3 %rdg. ±3 dgt.</td>
</tr>
<tr>
<td>Power</td>
<td>0.010 kW to 360.0 kW, 3 range (45 Hz to 1 kHz)</td>
</tr>
<tr>
<td>Basic accuracy</td>
<td>45 to 66 Hz: ±1.3 %rdg. ±3 dgt. (50/60 Hz, Power factor = 1)</td>
</tr>
<tr>
<td>Balanced three phase</td>
<td>0.020 kW to 623.5 kW</td>
</tr>
<tr>
<td>Basic accuracy</td>
<td>±3.0 %rdg. ±10 dgt. (50/60 Hz, Power factor = 1)</td>
</tr>
</tbody>
</table>

**Measurement items**
- Voltage, Current, Voltage/ current peak, Active/ reactive/ apparent power, Power factor, Phase angle
- Frequency, Simple Active Energy Consumption (Single-phase) and Harmonic (CM3286-01 only)
- Voltage/ current harmonic levels

**Other functions**
- PEAK, Phase detection, Max./ Min./ AVG value display, Auto hold, electric meter comparison, unbalanced 3-phase power estimate display, etc.

**Dustproof and waterproof**
- IP54 (EN60529) Grip, excluding lever
- Bluetooth® (CM3286-01 only)
  - Supports devices: iOS10 or later, Android™ 4.3 or later smartphone/tablet, Interface: Bluetooth® 4.0 LE, Communication distance: 10 m (line of sight)

**Power supply**
- LR03 Alkaline battery ×2

**Continuous operating time**
- 25 hours

**Dimensions and mass**
- 82 mm (3.23in) W × 241 mm (9.49in) H × 37 mm (1.46in) D, 450 g (15.9 oz)

**WARNING**
- Inspect the unit and check that it is operating correctly before use.
- When carrying out measurements, wear proper protective gear, insulating rubber gloves, insulating rubber boots and safety helmet, and use extreme caution to avoid electric shock accidents.

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

**Order Code**
- CM3286
- CM3286-01 (Built in Bluetooth® wireless technology)

**Discover electricity theft**
- Uncover tampering of electric meters by comparing electrical energy measurements
- Uncover manipulation of electric meters by comparing meter and integral power consumption measurements
- Discover direct theft by measuring current
- Discover theft by measuring leakage current

**Discover direct theft by measuring current**
- Measure consumption and phase sequence
- Discover direct theft

**Accessories**
- CONNECTION CABLE SET L4910
- EXTENSION CABLE SET L4931
- CLAMP ON ADAPTER L9257
- TEST PIN SET L4939
- GRABBER CLIP L9243
- MAGNETIC ADAPTER L9804

**Options**
- CONNECTION CABLE SET L4910
- EXTENSION CABLE SET L4931
- CLAMP ON ADAPTER L9257
- TEST LEAD L9297-10
- GENNECT Cross (freeware)

**DISTRIBUTED BY**
- HIOKI (Shanghai) SALES & TRADING CO., LTD.
  - TEL: +86-21-6391-0200/0360 FAX: +86-21-6391-0360
  - http://www.hioki.cn / E-mail: info@hioki.com.cn

- HIOKI SINGAPORE PTE. LTD.
  - E-mail: info-sg@hioki.com.sg

- HIOKI KOREA CO., LTD.
  - TEL: +82-2-2183-8847 FAX: +82-2-2183-3360
  - E-mail: info-sg@hioki.co.jp

- HIOKI EUROPE GmbH
  - TEL: +49-6173-3234063 FAX: +49-6173-3234064
  - E-mail: info-kr@hioki.com.sg

- HIOKI (Shanghai) SALES & TRADING CO., LTD.
  - E-mail: info-kr@hioki.com.sg

**All information correct as of Oct. 31, 2017. All specifications are subject to change without notice.**