

# HIOKI

## AC CLAMP METER CM3281, CM3291

**NEW**

# Large Jaw Lets You Clamp with Ease

- Measure thick cables right at the terminal



CM3281

**φ46 mm**  
MEAN Value  
2000A



CM3291

**φ46 mm**  
TrueRMS  
2000A

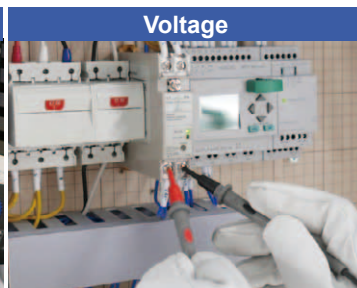


Durable enough to withstand a 1m drop onto concrete

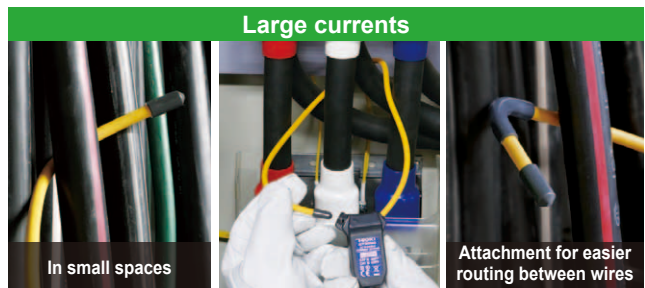




Current



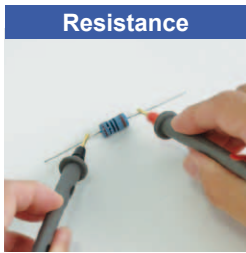
Voltage



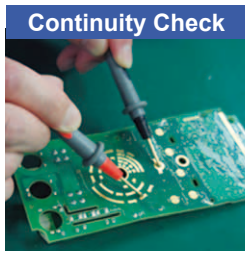
Large currents

In small spaces

Attachment for easier routing between wires



Resistance



Continuity Check



Caps to prevent inadvertent short-circuits.

Easily measure large currents and clamp thick paired wires with the optional AC FLEXIBLE CURRENT SENSOR CT6280.



**AC FLEXIBLE CURRENT SENSOR CT6280 specifications**



|                   |  |
|-------------------|--|
| Core jaw diameter | Φ130 mm (5.12 in) (Cable cross-section diameter: 5 mm [0.20 in], tip cap diameter: 7 mm [0.28 in]) |
| AC Current        | 420.0 A / 4200 A (±3.0% rdg.±5 dgt.)   |
| Cable length      | 800 mm (31.5 in)   |

## Specifications




Basic accuracy figures for measurement ranges are indicated in parentheses. Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year, Product warranty period is 3 years.

|                                    |   |
|------------------------------------|---|
| AC measurement method              | CM3281: MEAN Value<br>CM3291: True RMS  |
| Core jaw diameter                  | Φ 46 mm (1.81 in)   |
| Max. rated voltage to earth        | Jaw: CAT IV 300 V, CAT III 600 V<br>Voltage measurement terminal: CAT III 300 V, CAT II 600 V               |
| AC current                         | 42.00 A / 420.0 A / 2000 A (±1.5% rdg.±5 dgt.)  |
| Frequency characteristics          | CM3281: 50 Hz to 60 Hz<br>CM3291: 40 Hz to 1 kHz  |
| AC voltage                         | 4.200 V to 600 V, 4 ranges (±1.8% rdg.±7 dgt.)  |
| Frequency characteristics          | 45 Hz to 500 Hz   |
| DC voltage                         | 420.0 mV to 600 V, 5 ranges (±1.0% rdg.±3 dgt.)   |
| Resistance                         | 420.0 Ω to 42.00 MΩ, 6 ranges (±2.0% rdg.±4 dgt.)   |
| Continuity check                   | 420.0 Ω (±2.0% rdg.±4 dgt.)<br>Threshold of buzzer sound 50 Ω ±40 Ω or less                                 |
| Crest factor (Only for CM3291)     | 2.5 at 2500 count or less (linearity reduced to 1.5 or less at 4200 counts), (1.5 or less at 2000 A range)  |
| Display refresh rate               | 400 ms  |
| Operating temperature and humidity | -25°C to 65°C (-13°F to 149°F), 80% RH or less (no condensation)  |
| Storage temperature and humidity   | -25°C to 65°C (-13°F to 149°F), 80% RH or less (no condensation)  |
| Drop-proof distance                | 1 m (3.28 ft) onto concrete   |
| Standards                          | Safety: EN 61010, EMC: EN 61326   |
| Functions                          | Data hold, Auto power-saving function   |
| Power supply                       | Coin type lithium battery CR2032 × 1  |
| Continuous use                     | CM3281: 120 hours, CM3291: 70 hours   |
| Dimensions and mass                | 57 mm (2.24 in)W × 198 mm (7.80 in)H × 16 mm (0.63 in)D,<br>103 g (3.6 oz)                                  |
| Accessories                        | Carrying Case, Test Lead L9208, Coin type lithium battery CR2032, Instruction Manual, Operating Precautions |

## Options

| Model No. (Order Code) | Product Name  |
|------------------------|---|
| L9208                  | TEST LEAD (Anti-short cap included)   |
| CT6280                 | AC FLEXIBLE CURRENT SENSOR (Includes C0205 attachment)  |
| L4933                  |  CONTACT PIN SET<br>Connects to the tip of TEST LEAD L9208. (DC 60A/AC 30V) |
| L4934                  |  SMALL ALLIGATOR CLIP SET<br>Connects to the tip of TEST LEAD L9208.      |

## Comparison table

| Model No.                          |                   |  |  |  |
|------------------------------------|-------------------|---|---|---|
| Measurable conductor diameter (mm) |                   | φ33 mm  | φ33 mm  | φ46 mm  |
| Measurement current range          |                   | 1000 A  | 1000 A  | 1999 A  |
| Target Breaker/Wire                | NX53PS 50AF/CV8   | N/A   | ✓   | ✓   |
|                                    | NX53PS 50AF/CV3.5 | ✓   | ✓   | ✓   |
|                                    | BHK/CV38          | N/A   | ✓   | ✓   |
|                                    | 30AF/CV8          | ✓   | ✓   | ✓   |
|                                    | 60AF/CV22         | ✓   | ✓   | ✓   |
|                                    | 125AF/CV60        | ✓   | ✓   | ✓   |
|                                    | 250AF/CV150       | N/A   | ✓   | ✓   |
| 400AF/CV325                        | ✓                 | ✓   | ✓   |   |

**Model: AC CLAMP METER CM3281, CM3291**

| Model No. (Order Code) | (Remarks)           |
|------------------------|---------------------|
| CM3281                 | (Average rectified) |
| CM3291                 | (True RMS)          |

Note: Company names and product names appearing in this catalog are trademarks or registered trademarks of various companies.



**HEADQUARTERS**

81 Koizumi,  
Ueda, Nagano 386-1192 Japan  
<https://www.hioki.com/>



Scan for all regional contact information

DISTRIBUTED BY