

# HIOKI

## AC LEAKAGE CLAMP METER CM4001

NEW

Remarkable ease of use

# Double your speed for checking leakage current



Actual size



Identify intermittent GFCI and RCD trips to prevent unplanned equipment downtime by testing for earth leakage current.

0.60 mA to 600.0 A AC

CAT III 300 V

• **Slim jaws let you work with ease**

Designed easily clamp within crowded cables while maintaining measurement performance, save work time and improve safety

• **Measure everything from leakage to load**

With guaranteed accuracy from 0.60 mA to 600.0 A, the CM4001 provides a one-stop solution for a variety of applications

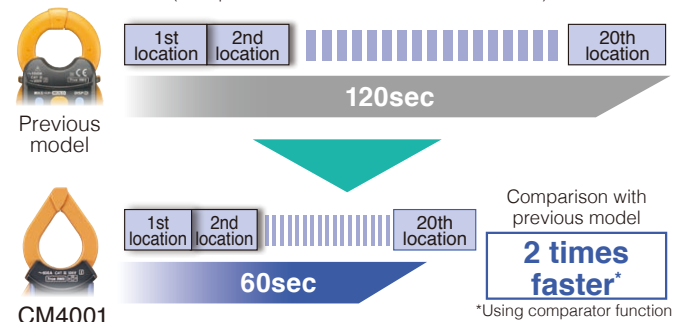
• **Find issues faster with a comparator function**

Quickly Identify leakage current locations with red backlight and audio alerts based on comparison with set threshold value

### Work twice as quickly

Work time comparison: Checking 20 circuit breakers in a distribution panel for leakage current

Task: (Clamp to measurement location → Check value) × 20 locations



# Key benefits and applications

## Perform everyday maintenance work more safely and easily

- Slim jaws simplify measurements within crowded cables, improve efficiency and reduce work time
- Filter function eliminates unwanted noise to let you measure close to the 50 Hz/60 Hz fundamental frequency
- White backlight, measured value hold, and auto power off features add convenience
- **[AUTO HOLD]** function automatically holds the measured value for use in difficult places to see the display

## Support for troubleshooting and diagnostics

- The CM4001 retains maximum, minimum, and average **[MAX/MIN/AVG]** RMS current values to make it easier to analyze potential problems
- Waveform peak value measurement **[PEAK]** capture intermittent or transient events
- Inrush current measurement **[INRUSH]** captures the starting current up to 150 ms from the trigger to help locate equipment startup problems and contributes to a preventive maintenance log for future reference



Clamp thick wires and double wires with narrow spacing smoothly

## Specifications

(Accuracy guaranteed for 1 year, Product warranty period is 3 years.)

|                                     |  |                                      |
|-------------------------------------|--|--------------------------------------|
| AC measurement method               | True RMS   |                                      |
| Core jaw diameter                   | φ24mm  |                                      |
| AC current                          | Accuracy specification range   | 0.60mA to 600.0A                     |
|                                     | Display range  | 0.00mA to 600.0A                     |
|                                     | Range / Accuracy   | 60.00mA / ±1.5%rdg ±5dgt (45Hz-66Hz) |
|                                     |  | 600.0mA / ±1.5%rdg ±5dgt (45Hz-66Hz) |
|                                     |  | 6.000A / ±1.5%rdg ±5dgt (45Hz-66Hz)  |
| 600.0A / ±2.5%rdg ±5dgt (45Hz-66Hz) |  |                                      |
| Frequency characteristics           | 40.0 Hz to 999.9Hz   |                                      |
| Effects of external magnetic fields | With an external magnetic field of 400A AC/m<br>Max. 7.0mA (6.000A range and lower)<br>Max. 4.0A (60.00A range and higher) |                                      |
| Crest factor                        | 3  |                                      |
| Zero display range                  | 5 count or less  |                                      |

|                                      |   |
|--------------------------------------|---|
| Standards                            | Safety: EN 61010, A type current sensor<br>Measurement category: CAT III 300V<br>EMC: EN61326                       |
| Peak function                        | Detection from 2ms or more (with filter function OFF)   |
| Filter function                      | -3dB at 180Hz ± 30Hz  |
| Display refresh rate                 | 5 times / sec   |
| Operating temperature                | -10°C to 65°C   |
| Operating humidity (no condensation) | -10°C to 40°C, 80% RH or less<br>40°C to 45°C, 60% RH or less<br>45°C to 65°C, 50% RH or less                       |
| Storage temperature                  | -10°C to 65°C   |
| Power supply                         | LR03 alkaline battery x1  |
| Continuous use                       | Approx. 32 hr. (without Z3210 installed)<br>Approx. 16 hr. (with Z3210 installed and using wireless communications) |
| Dimensions and weight                | 37 mm(1.46in)W x 160 mm(6.30in)H x 27 mm(1.06in)D,<br>115 g (4.1 oz)  |
| Usage environment                    | Indoor use, pollution degree 2, altitude up to 2000m  |

## Model/Accessories

Model : AC LEAKAGE CLAMP METER CM4001

Model No. (Order Code)

CM4001

CM4001-90 CM4001 + Wireless Adapter Z3210(Recommended)

- CM4001
- Strap
- Carrying case
- Instruction manual
- LR03 alkaline battery x1



## Add wireless communication capability for even greater convenience

Connect the Z3210 and transfer measurements to the tablet

New release



Wireless Adapter Z3210

Connect to the CM4001 to add Bluetooth® capability.



Check and record measurement results with GENNECT Cross, a free app from HIOKI.

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# HIOKI

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