

HIOKI

AC LEAKAGE CLAMP METER CM4001

NEW

Remarkable ease of use

Double your speed for checking leakage current



Actual size



German iF Design Award

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

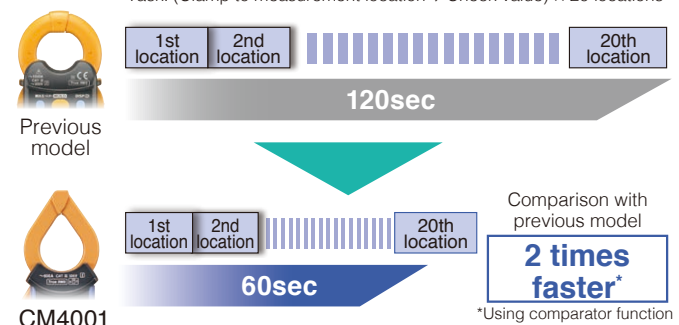
- **Find issues faster with a comparator function**

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)
		60.00A / ±2.5%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 Max. 7.0mA (6.000A range and lower) 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 Measurement category: CAT III 300V 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 40°C to 45°C, 60% RH or less 45°C to 65°C, 50% RH or less
Storage temperature	-10°C to 65°C
Power supply	LR03 alkaline battery ×1
Continuous use	Approx. 32 hr. (without Z3210 installed) Approx. 16 hr. (with Z3210 installed and using wireless communications)
Dimensions and weight	37mm(1.46in)W × 160mm(6.30in)H × 27mm(1.06in)D, 115g(4.1oz)
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 ×1



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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