



AC LEAKAGE CLAMP METER CM4001

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

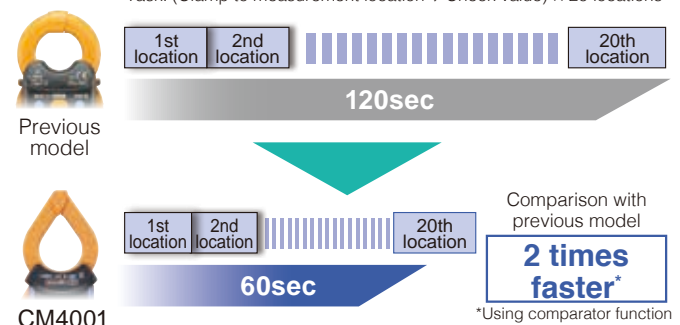
• **Find issues faster with a comparator function**

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, Post-adjustment 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	37 mm(1.46in)W × 160 mm(6.30in)H × 27 mm(1.06in)D, 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 ×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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