

HIOKI

AC CLAMP METER CM3281, CM3291

Large Jaw Lets You Clamp with Ease

- Measure thick cables right at the terminal



CM3281

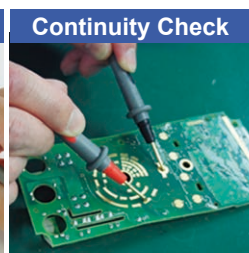
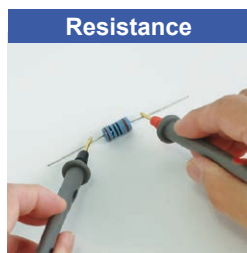


CM3291



Durable enough to withstand a 1m drop onto concrete





Specifications

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

AC measurement method	CM3281: MEAN Value 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 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.) Accuracy specified range: 4.00 A to 1999 A
Frequency characteristics	CM3281: 50 Hz to 60 Hz 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.) 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, 103 g (3.6 oz)
Accessories	Carrying Case (hard type), Test Lead L9208, Coin type lithium battery CR2032, Instruction Manual, Operating Precautions

Accessories



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)

Options

Model No. (Order Code)	Product Name
L9208	TEST LEAD (Anti-short cap included)
CT6280	AC FLEXIBLE CURRENT SENSOR Includes C0205 Carrying case (soft type)
L4933	CONTACT PIN SET Connects to the tip of TEST LEAD L9208. (DC60A/AC30 V)
L4934	SMALL ALLIGATOR CLIP SET Connects to the tip of TEST LEAD L9208.

Comparison table

Model No.	3280-10F	CM3289	CM3281, CM3291
Measurable conductor diameter	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

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