

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

HIOKI

3288 [1000 Arms max. MEAN Value]

3287 [100 A max. True RMS]

CLAMP ON AC/DC HiTESTER

Field Measuring Instrument



Compact & Easy

With Guaranteed Accuracy!

AC/DC Multi-Function Clamp

3288

AC/DC
1000A
max.

**Economically
priced**



ISO 9001
JMI-0216



ISO14001
JQA-E-90091

Actual-size



<http://www.hioki.co.jp/>

HIOKI company overview, new products, environmental considerations and other information are available on our website.



3287
AC/DC
100A
max

One-touch maintenance on all types of AC/DC equipment

Features

- The 3288, for high current measurements such as UPS emergency batteries and train motors:

Handles measurements up to a maximum of AC/DC 1000 A, using an average value type measurement formula for AC mode to realize cost savings.



- The 3287, which can handle even cogenerator / inverter energy-saving equipment:

The 3287 performs accurate measurements of even small currents in the AC/DC 10.00 A range. In AC mode it also guarantees accuracy of true RMS measurements for frequencies from 10 Hz to 1 kHz. Handles low frequency to distorted currents including higher harmonics, simplifying maintenance of energy-saving equipment up to a maximum of 100 A.



- Multi-function clamp that simplifies equipment diagnosis:
Besides AC/DC current measurement, it also contains DMM functions for voltage, resistance, and continuity checking.

3287/3288 Specifications (accuracy at 23°C±5°C (73°F±9°F), 80% rh)

Function	Range (Accuracy)
DC current*	3288 100.0 / 1000 A (±1.5%rdg, ±5dgt.)
	3287 10.00 / 100.0 A (±1.5%rdg, ±5dgt.)
AC current**	3288 100.0 / 1000 A (45 to 66 Hz; ±1.5%rdg, ±5dgt.) (10 to 45 Hz or 66Hz to 500Hz; ±2.0%rdg, ±5dgt.)
	3287 10.00 / 100.0 A (45 to 66 Hz; ±1.5%rdg, ±5dgt.) (10 to 45 Hz or 66Hz to 1kHz; ±2.0%rdg, ±5dgt.)
DC voltage	420.0 m / 4.200 / 42.00 / 420.0 / 600 V (±1.3%rdg, ±4dgt.)
AC voltage	4.200 / 42.00 / 420.0 / 600 V (30 to 500Hz; ±2.3%rdg, ±8dgt.)
Resistance (open terminal voltage 3.4 V max.)*3	420.0 / 4.200 k / 42.00 k / 420.0k / 4.200 M / 42.00 MΩ (±2.0%rdg, ±4dgt.)*3
Continuity (open terminal voltage 3.4 V max.)	420.0 Ω (±2.0%rdg, ±6dgt.) (Buzzer sounds at approx. 50 Ω or less)

*1. current measurement function performs zero suppression for counts 5 or less

*2. at 420 Ω. (4.2k 0.7V (typ.) 42k to 42M 0.5V (typ.))

*3. at 420 to 420kΩ. (4.2MΩ ±5.0%rdg, ±4dgt. 42MΩ ±10.0%rdg, ±4dgt.)

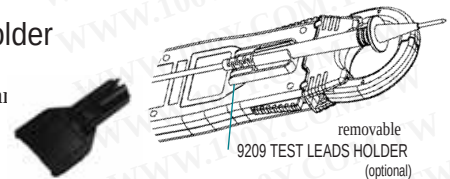
Inspect the unit and check that it is operating correctly before use. When carrying out measurement on live lines, wear proper protective gear, insulating rubber gloves, insulating rubber boots and safety helmet, and use extreme caution to avoid electric shock accidents. In order to prevent short-circuits and injury, use the clamp product on electrical circuits with a voltage less than the maximum operation circuit voltage.

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- A slim core of only 10 mm (0.39"), so clamping is easy even in crowded wiring
- Independent-opening double-lever design
- No metal (iron core) exposure, ensuring enhanced safety
- CAT III 600 V (current) for emphasis on safety

- Test Lead Holder for convenient voltage, resistance, and continuity checking.



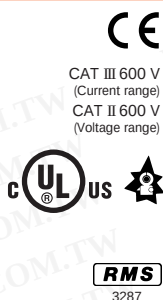
- AC measurement: 3287; true RMS, 3288; MEAN value
- Ancillary functions: auto zero (at DCA), auto ranging, data hold function, auto power save function
- Display: Max. 4199-count LCD
- Sampling rate: 2.5 times/sec
- Measurable conductor diameter: Ø35mm (1.37") max.
- Max. usable circuit voltage: 600Vrms
- Crest factor (3287 only): 2.5 or less (150A max, 1000V max.)
- Effect of conductor position: within ±1.0 % (3288; ±2.0%) in any direction from the center of sensor
- Overload protection: DCV/ACV - 600 V DC / AC rms; ohms/continuity - 250 V DC / AC rms
- Applicable standards: Safety - EN61010-1:2001 CAT III 600V (AC A), CAT III 300V (AC/DC V), CAT II 600V (AC/DC V), UL 61010B-1:2003; EMC - EN61326-1
- Location for use: Indoors, altitude up to 2000 m
- Ambient temperature of use: 0 to 40°C (32°F to 104°F), 80%rh (no condensation)
- Storage temperature range: -10 to 50°C (14°F to 122°F), (no condensation)
- Power source: CR 2032 battery X1 (3V DC)
- Continuous operating time: approx. 25 hours (3288; approx. 60 hours)
- Dimensions and mass: Approx. 57 W x 180 H x 16 D mm, 170 g (3288; 150 g) (Approx 2.2" (W) x 7.1" (H) x 0.6" (D), 6.0 oz. (3288; 5.3oz.))
- Accessories: battery, carrying case, test leads and manual



Includes 9208 TEST LEADS and 9398 CARRYING CASE

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3287/3288 CLAMP ON AC/DC HiTESTER



Compact & easy, one-touch maintenance on all types of AC/DC equipment

- The 3287 can handle even cogenerator / inverter energy-saving equipment
- Use the 3288 for high current measurements such as UPS emergency batteries and train motors
- A slim core of only 10 mm (0.39") for easy clamping even in crowded wiring

OPTION *Note: Non-CE mark product
9209 TEST LEADS HOLDER

*9131 CLAMP ON ADAPTER, *CT-101A LINE SPLITTER
(cannot be used for DC current, for use on AC current only)

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CLAMP ON HiTESTERS Table of functions

	3283 True RMS	3284 True RMS 3285 True RMS	3286 True RMS	3287 True RMS 3288
AC Current range	10.00 mA to 200 A AC, 5 ranges Effective value rectifier	AC, AC+DC (RMS or Peak value) 3284: 20.00 or 200.0 A AC, 2 ranges 3285: 200.0 or 2000 A AC, 2 ranges Effective value rectifier	200.0 or 1000 A AC, 2 ranges Effective value rectifier	3287: 10.00 or 100.0 A AC, 2 ranges Effective value rectifier 3288: 100.0 or 1000 A AC, 2 ranges Average rectifier effective value
Other current range	None	DC (Average or Peak value) 3284: 20.00 or 200.0 A DC, 2 ranges 3285: 200.0 or 2000 A DC, 2 ranges	Wave peak value at AC Current 200(500 p) or 1000(1700 p) A, 2 ranges	DC mode 3287: 10.00 or 100.0 A DC, 2 ranges 3288: 100.0 or 1000 A DC, 2 ranges
AC Voltage range	None	AC, AC+DC (RMS or Peak value) 30.00 to 600 V AC, 3 ranges Effective value rectifier	150.0 to 600.0 V AC, 3 ranges Effective value rectifier	3287: 4.200 to 600 V AC, 4 ranges Effective value rectifier 3288: 4.200 to 600 V AC, 4 ranges Average rectifier effective value
Other voltage range	None	DC (Average or Peak value) 30.00 to 600 VDC, 3 ranges	Wave peak value at AC Voltage 150(375 p) to 600(1020 p) V, 3 ranges	DC mode 420.0 mV to 600 V DC, 5 ranges
Other functions	Frequency: 30.0 or 1000 Hz Filter function: 180 Hz ± 30 Hz ± 3 dB	Frequency: 1 to 1000 Hz Mode: Max./ Min./ AVE./ RMS Record mode / Auto-off	effective / reactive / apparent power (Single-phase or 3-phase), power factor, reactivity, phase angle, frequency, phase detection(3-phase), voltage/current harmonic levels (up to 20th)	Resistance: 420.0 to 42.00 M Ω , 6 ranges Accuracy: ± 2.0 % rdg. ± 4 dgt. (at 420 to 420 k Ω range) Continuity: 420.0 Ω (Buzzer sounds at approx. 50 Ω or less)
Analog output	DC, or AC 1 V / f.s. Level output: with REC mode Waveform output: with MON mode	DC, or AC 1 V / f.s. Level output: with REC mode Waveform output: with MON mode	None	None
Accuracy (at 50 or 60Hz)	10m to 10 A range: ± 1.0 % rdg. ± 5 dgt. 200A range: ± 1.5 % rdg. ± 5 dgt. Frequency: ± 0.3 % rdg. ± 1 dgt.	AC current: ± 1.3 % rdg. ± 3 dgt. AC voltage: ± 1.0 % rdg. ± 3 dgt. Frequency: ± 0.3 % rdg. ± 1 dgt.	AC current: ± 1.0 % rdg. ± 3 dgt. AC voltage: ± 1.3 % rdg. ± 3 dgt. Power single-phase: ± 2.3 % rdg. ± 5 dgt. Power 3-phase: ± 3.0 % rdg. ± 10 dgt. (at balanced load) Phase angle: $\pm 3^\circ$	AC current: ± 1.5 % rdg. ± 5 dgt. AC voltage: ± 2.3 % rdg. ± 8 dgt. DC voltage: ± 1.3 % rdg. ± 4 dgt. DC current: ± 1.5 % rdg. ± 5 dgt. Continuity: ± 2.0 % rdg. ± 6 dgt.
Frequency characteristics AC current / voltage	40 to 2 kHz	3284: DC, 10 to 2 kHz 3285: DC, 10 to 1 kHz	30 to 1 kHz	3287 AC current: 10 to 1 kHz 3288 AC current: 10 to 500 Hz 3287/88 AC voltage: 30 to 500 Hz
Display section	Digital / 1000 dgt. Bar graph / 35 seg.	Current / 2000 dgt. Voltage / 3000 dgt. Bar graph / 35 seg.	Digital / LCD, maximum 6000 dgt.	Digital / LCD, maximum 4199 dgt.
Sampling rate	2 or 4 times/sec (Slow: 1 time/3 sec)	2 or 4 times/sec (Slow: 1 time/3 sec)	NORMAL approx. 1 time/sec, SLOW 1 time/3-sec at HARM meas. approx. 1 time/2-sec	2.5 times/sec
Crest factor (RMS)	2.5 (1.5 at 200 A range)	2.5 (1.7 at 600 V), 1.5 (3284: 200 A), 1.42 (3285: 2000 A)	2.5 (1.7 at 1000 A/600 V range)	3287: 2.5 or less (150 A, 1000 V maximum)
Effect of external magnetic fields	corresponds to 5 mA, max. 7.5 mA equivalent max. at 400 A/m	3284: 0.5 A equivalent max. at 400 A/m 3285: 2.0 A equivalent max. at 400 A/m	2.0 A equivalent max. at 400 A/m	No provision
Max. circuit voltage	300 V AC rms (insulated wire)	600 V AC rms (insulated wire)	600 V AC rms (insulated wire)	600 V AC rms (insulated wire)
Power supply	6F22(006P) $\times$ 1 or AC adapter Continuous use 50 hours	6F22(006P) $\times$ 1 or AC adapter Continuous use 25 hours	6LR61 alkaline battery $\times$ 1 Continuous use 25 hours 6F22 manganese battery $\times$ 1 Continuous use 10 hours	CR2032 (3 VDC) $\times$ 1 3287: Continuous use 25 hours 3288: Continuous use 60 hours
Core jaw dia.	$\varnothing 40$ mm	3284: $\varnothing 33$ mm 3285: $\varnothing 55$ mm	$\varnothing 55$ mm	3287: $\varnothing 35$ mm 3288: $\varnothing 35$ mm
Dimensions/mass	62W $\times$ 225H $\times$ 39D mm / 400 g	3284: 62W $\times$ 230H $\times$ 39D mm / 460 g 3285: 62W $\times$ 260H $\times$ 39D mm / 540 g	62W $\times$ 260H $\times$ 39D mm / 550 g	3287: 57W $\times$ 180H $\times$ 16D mm / 170 g 3288: 57W $\times$ 180H $\times$ 16D mm / 150 g
Included accessories	9399 CARRYING CASE (1) Hand strap (1)	9207 TEST LEAD(1), 9399 CARRYING CASE(1 for 3284) 9345 CARRYING CASE(1 for 3285) Hand strap(1)	9635 VOLTAGE CORD (1) 9355 CARRYING CASE (1) Hand strap (1)	9208 TEST LEAD (1) 9398 CARRYING CASE (1)