

Field Measuring Instruments

3108-01/3109-01 CLAMP ON HiTESTER



3108-01



DC and AC current measurement

- With output terminal (DC:monitoring out, AC: recording out)
- DC center-zero function
- True RMS measurement
- Two power supplies : battery and AC adapter

RMS

OPTION

9131 CLAMP ON ADAPTER (for large AC current)

CT-101A LINE SPLITTER

3127-10/3128-10 CLAMP ON HiTESTER



3127

3128



One meter drop-proof "Tested Tough !"



- One meter drop-proof "tested-tough"
- With the range of 300 A (3127-10), 1500 A (3128-10)
- Temperature measurement
- Ohmmeter circuit tested to 250 V AC over voltage-OK
- Clamp-on measurement for busbars and thick conductors (3128-10)

OPTION

9021-01 THERMISTOR TEMPERATURE PROBE
9131 CLAMP ON ADAPTER (for large AC current)

CT-101A LINE SPLITTER

3280-10/3280-20 CLAMP ON HiTESTER

3280-10: Good Design Product Selected by Ministry of International Trade and Industry (Japan)



3280-10

3280-20

9209 (option)



Easy operation ! True RMS (model 3280-20)

CAT III 600 V
(Current range)
CAT II 600 V
(Voltage range)



3280-10 only

- 1000 A rms, clamp aperture: 33 mm dia.
- Light 100 g, and Slim 16 mm
- Independent-opening double-lever design
- Slim body design, allows easy clamping even for narrow conductors
- No metal (iron core) exposure, ensuring enhanced safety

OPTION *Note: Non-CE mark product

9209 TEST LEADS HOLDER

*CT-101A LINE SPLITTER

3281,3282 DIGITAL CLAMP ON HiTESTER



3281

3282



The true RMS is shown in the distorted waveform

CAT III 600 V



3281: 600 A AC, ϕ 33 mm 3282: 1000 A AC, ϕ 46 mm

- AC Current/Voltage, Frequencies, Resistance, Conduction check, Temperature (probe sold separately)
- Wave peak value, Waveform distortion check
- Auto-power off to prevent the power from being left on
- Non-fuse type protects up to 600 V AC

RMS

OPTION *Note: Non-CE mark product

9462 THERMISTOR TEMPERATURE PROBE

*CT-101A LINE SPLITTER



CLAMP ON HIESTERS

Table of functions

	3108-01 True RMS 3109-01 True RMS	3127-10 True RMS 3128-10 True RMS	3280-10 3280-20 True RMS	3281 True RMS 3282 True RMS
AC Current range	3108-01: 10 to 250 A AC, 5 ranges 3109-01: 100 to 2000 A AC, 5 ranges Effective value rectifier	3127: 6 to 300 A AC, 5 ranges 3128: 15 to 1500 A AC, 5 ranges Average rectifier effective value	42.00 or 1000 A AC, 3 ranges -10: Average rectifier effective value -20: Effective value rectifier	3281: 30.00 to 600 A AC, 3 ranges 3282: 30.00 to 1000 A AC, 3 ranges Effective value rectifier
Other current range	DC Current range 3108-01: 10 to 250 A DC, 5 ranges 3109-01: 100 to 2000 A DC, 5 ranges	None	None	Wave peak value at AC Current 3281: 75.0 to 1000 A peak, 3 ranges 3282: 75.0 to 1700 A peak, 3 ranges
AC Voltage range	10 to 500 V AC, 5 ranges Effective value rectifier	150 to 750 V AC, 3 ranges Average rectifier effective value	4.200 to 600 V AC, 4 ranges -10: Average rectifier effective value -20: Effective value rectifier	300.0 or 600 V AC, 2 ranges Effective value rectifier
Other voltage range	DC Voltage range 10 to 500 V DC, 5 ranges	DC Voltage range: 75 V DC, 1 range	DC Voltage range: 420.0 mV to 600 V DC, 5 ranges	Wave peak value at AC Voltage up to 750 or 1000 V peak, 2 ranges
Other functions	None	Resistance: 1 k or 100 kΩ range Temperature*: -50 to 200 °C *9021-01TEMPERATURE PROBE required, (sold separately)	Resistance: 420.0 to 42.00 MΩ, 6 ranges Accuracy: ±2.0 % rdg. ±4 dgt. (at 420 to 420 kΩ range) Continuity: 420.0 Ω (Buzzer sounds at approx. 50 Ω or less)	Distortion check: 1 to 5 Crest factor Resistance: 1 k or 10 kΩ range Temperature*: -50 to 150 °C Frequency: 100 or 1000 Hz Mode: Slow / Peak / C.F. / RMS Record mode / Auto-off / Conduction * 9462 TEMPERATURE PROBE required (sold separately)
Analog output	DC, or AC 1 V / f.s. Level output with AC mode Waveform output with DC mode	None	None	None
Accuracy (at 50 or 60Hz)	AC/DC current: ±2.5 % f.s. ±5 % f.s. from 1500 to 2000 A range AC/DC voltage: ±2.5 % f.s.	AC current: ±3 % f.s. AC/DC voltage: ±3 % f.s.	AC current: ±1.5 % rdg. ±5 dgt. AC voltage: ±2.3 % rdg. ±8 dgt. DC voltage: ±1.3 % rdg. ±4 dgt. Continuity: ±2.0 % rdg. ±6 dgt.	AC current: ±1 % rdg. ±5 dgt. AC voltage: ±1 % rdg. ±3 dgt. Peak: ±3 % rdg. ±5 dgt. Frequency: ±0.3 % rdg. ±1 dgt.
Frequency characteristics AC current / voltage	20 to 500 Hz / ±1 % max.	50 or 60 Hz	AC current: 50/60 Hz (-10) 40 to 1 kHz (-20) AC voltage: 50 to 500 Hz	40 to 1000 Hz
Display section	Indicator type	Indicator type	Digital / LCD, maximum 4199 dgt.	Digital / 3000 dgt. Bar graph / 35 seg.
Sampling rate	None	None	2.5 times/sec or 1 times/3 sec	2 or 4 times/sec (Slow: 1 times/3 sec)
Crest factor (RMS)	3	None	-10: None, -20: 1.5	2.5 (1.7 at 600 A, 1000 A, 600 V range)
Effect of external magnetic fields	0.1 A equivalent max. at 400 A/m	No provision	No provision	3281: 1.5 A equivalent max. at 400 A/m 3282: 0.2 A equivalent max. at 400 A/m
Max. circuit voltage	600 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	R14P(C) × 4 or AC adapter Continuous use 29 hours	R6P(AA) × 1	CR2032 (3 VDC) × 1 -10: Continuous use 150 hours -20: Continuous use 50 hours	6F22 (006P) × 1 Continuous use 50 hours
Core jaw dia.	3108-01: ø30 mm 3109-01: ø46 mm	3127: ø33 mm 3128: ø55 mm, or 80 mm busbar	ø33 mm	3281: ø33 mm 3282: ø46 mm
Dimensions/mass	3108-01: 85W × 175H × 40D mm / 1.85 kg 3109-01: 90W × 190H × 40D mm / 1.9 kg	3127: 78W × 190H × 34D mm / 340 g 3128: 99W × 237H × 34D mm / 570 g	57W × 175H × 16D mm / 100 g	3281: 62W × 218H × 39D mm / 350 g 3282: 62W × 230H × 39D mm / 400 g
Included accessories	9060 TEST LEAD (1) 9083 CARRYING CASE (1)	9067 TEST LEAD (1) 9351 CARRYING CASE for 3127 (1) 9148 CARRYING CASE for 3128 (1)	9208 TEST LEAD (1) 9398 CARRYING CASE (1)	9207 TEST LEAD (1) 9399 CARRYING CASE (1) Hand strap (1)

HIOKI

HIOKI E. E. CORPORATION

HEAD OFFICE :
81 Koizumi, Ueda, Nagano, 386-1192, Japan
TEL +81-268-28-0562 / FAX +81-268-28-0568
E-mail: os-com@hioki.co.jp

HIOKI USA CORPORATION :
6 Corporate Drive, Cranbury, NJ 08512 USA
TEL +1-609-409-9109 / FAX +1-609-409-9108
E-mail: hioki@hiokiusa.com

Europe Representative Office :
Meineckestrasse 48, 40474 Dusseldorf, Germany
TEL / FAX +49-221-4544153
E-mail: hioki-eu@doitsu.de

Shanghai Representative Office :
1108 Union Building, 100 Yan An Road (East),
Shanghai, 200002, P.R.China
TEL +86-21-6328-9947/4938
FAX +86-21-6328-2064
E-mail: hioki-sh@sh.cngb.com

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