

Field Measuring Instruments

3283 CLAMP ON LEAK HiTESTER



CAT III 300 V



Easily monitor leak current fluctuations

- Wide bandwidth, 5 Hz to 15 kHz
- High-sensitivity with a full scale of 10 mA (resolution : 10 μ A)
- High-accuracy at ± 1 %
- True RMS measurement
- Analyzer functions, for filtering and output signals

RMS

OPTION *Note: Non-CE mark product

9445-02 AC ADAPTER (for USA)
9445-03 AC ADAPTER (for EU)

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

*9094 OUTPUT CORD

3284/3285 CLAMP ON AC/DC HiTESTER



CAT III 600 V



Analysis for DC to distorted waves

- 3284: 200 Arms, clamp aperture: 33 mm dia.
- 3285: 2000 Arms, clamp aperture: 55 mm dia.
- Inrush current crest value
- RMS value of full-wave rectified waveforms
- Waveform and harmonic analysis

RMS

OPTION *Note: Non-CE mark product

9445-02 AC ADAPTER (for USA)
9445-03 AC ADAPTER (for EU)

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

*9094 OUTPUT CORD

3286 CLAMP ON POWER HiTESTER

Power measuring instruments



CAT III 600 V



Functionality and Safety Packed into a Handheld Unit

- Use as a single-phase power meter
- Measure phase on a single-phase line
- Simple checking of three-phase lines
- Check power supply fluctuations
- For harmonic suppression
- External output of data to PC

RMS

OPTION

9636-01 RS-232C PACKAGE
9442 PRINTER

9443-02 AC ADAPTER (for the 9442, EU), 9443-03 (USA)
9636 RS-232C CABLE (for the 9442)

1196 RECORDING PAPER (25 m, 10 rolls /1 set, for the 9442)

3287/3288 CLAMP ON AC/DC HiTESTER



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



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

RMS
3287

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)



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 $\pm$ 30 Hz $\pm$ 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: $\pm$ 2.0 % rdg. $\pm$ 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: $\pm$ 1.0 % rdg. $\pm$ 5 dgt. 200A range: $\pm$ 1.5 % rdg. $\pm$ 5 dgt. Frequency: $\pm$ 0.3 % rdg. $\pm$ 1 dgt.	AC current: $\pm$ 1.3 % rdg. $\pm$ 3 dgt. AC voltage: $\pm$ 1.0 % rdg. $\pm$ 3 dgt. Frequency: $\pm$ 0.3 % rdg. $\pm$ 1 dgt.	AC current: $\pm$ 1.0 % rdg. $\pm$ 3 dgt. AC voltage: $\pm$ 1.3 % rdg. $\pm$ 3 dgt. Power single-phase: $\pm$ 2.3 % rdg. $\pm$ 5 dgt. Power 3-phase: $\pm$ 3.0 % rdg. $\pm$ 10 dgt. (at balanced load) Phase angle: $\pm$ 3 °	AC current: $\pm$ 1.5 % rdg. $\pm$ 5 dgt. AC voltage: $\pm$ 2.3 % rdg. $\pm$ 8 dgt. DC voltage: $\pm$ 1.3 % rdg. $\pm$ 4 dgt. DC current: $\pm$ 1.5 % rdg. $\pm$ 5 dgt. Continuity: $\pm$ 2.0 % rdg. $\pm$ 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.	ϕ 40 mm	3284: ϕ 33 mm 3285: ϕ 55 mm	ϕ 55 mm	3287: ϕ 35 mm 3288: ϕ 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)

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