

HIOKI

CLAMP ON AC/DC HITESTER 3285-20 [2000Arms, ϕ 55mm(2.17") max.]

Field measuring instruments



2000 A analysis

- Inrush current crest value
- RMS value of full-wave rectified waveforms



Analysis for
DC to distorted
waves

CAT III 600 V



ISO 9001
JMI-0216



ISO14001
JQA-E-90091



www.hioki.com

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

Analysis applications

Supporting a wealth of functions

Inrush current crest value

The peak hold function displays the crest value of the inrush current occurring when electrical equipment is started.

SLOW / PEAK / Hz

RMS value of full-wave rectified waveforms

The AC+DC mode enables measurement of the RMS value of full- or half-wave rectified waveforms used in electrical machinery.

Specifications

Accuracy at 23 °C ± 5 °C (73 °F ± 9 °F), 80% rh or less.
Measurement accuracy applies to input of at least 5% of the current range, and at least 10% of the voltage/frequency range.

Function	Mode	Display Switch ^{†1}	Range	Accuracy at DC or 45 to 66 Hz	10 to 45Hz or 66 to 1 kHz	PEAK accuracy at DC or 45 to 66 Hz	Notes
Current (A)	DC	Average / PEAK	200.0 / 2000 Resolution is 1 A during PEAK	±1.3%rdg.±3dgt.	—	±1.3%rdg.±7dgt. ^{*5}	Max. allowable current 2000Arms cont. 2840A peak max.
	AC	RMS / PEAK		±1.3%rdg.±3dgt. ^{*2}	±2.0%rdg.±5dgt. ^{*3}	±1.3%rdg.±7dgt. ^{*5}	
	AC+DC	RMS / PEAK		±1.3%rdg.±13dgt. ^{*2}	±2.0%rdg.±7dgt. ^{*3}	±1.3%rdg.±7dgt. ^{*5}	
Voltage (V)	DC	Average / PEAK	30.00 / 300.0 / 600 Resolution is decreased by 1 digit except in the 600 V range during PEAK	±1.0%rdg.±3dgt.	—	±1.0%rdg.±7dgt.	Max. allowable voltage 600Vrms cont. 1000V peak max.
	AC	RMS / PEAK		±1.0%rdg.±3dgt.	±1.5%rdg.±5dgt.	±1.0%rdg.±7dgt. ^{*6}	
	AC+DC	RMS / PEAK		±1.0%rdg.±7dgt. ^{*4}	±1.5%rdg.±7dgt. ^{*4}	±1.0%rdg.±7dgt. ^{*6}	
Frequency (Hz)	—	—	10.00 / 100.0 / 1000	±0.3%rdg.±1dgt.	±1.0%rdg.±1dgt. (at 1000Hz)	—	Effective in the V and A functions
Resistance(Ω)	—	—	1000 / 10.00k	±1.5%rdg.±5dgt.		—	Open terminal Voltage 3.1V
Continuity Check	—	—	1000	Threshold level 30Ω±5Ω or less		—	DC or less

*1. The peak hold function works automatically during PEAK measurement. *2. Add ±1.0% rdg. in the 1800 to 2000 A interval. *3. No assured accuracy in the 1800 to 2000 A interval. *4. Add 6 dgt. in the 30 V range. *5. Add ±4.7% rdg. in the 2300 to 2840 A interval. *6. Add ±1.0%rdg.±13dgt when measuring 700 V to 1000V.

Measurable conductor diameter : ϕ55 (2.17") mm max.
Max. usable circuit voltage : 600Vrms (insulated conductor)
Functions : recording (MAX. MIN. AVE) ,data hold, auto power-off, auto zero
Display update rate : digital indication FAST approx. 4 times/second, NORMAL approx. 2 times/second, SLOW 1 time/ 3 seconds; bar graph indication approx. 4 times/second
Display response time : 1 sec or less
Range switching : Auto/Manual (Except resistance.)
Frequency characteristic : 40 Hz to 1 kHz accuracy
Effect of conductor position : within ± 0.7 % in any direction from the center of sensor

Effect of external magnetic field : 400A/m corresponds to 2 A max.
Crest factor : 2.5 or less, 1.7 or less in the 600 V range
Safety standard : EN61010-1 CAT III 600V, EN61010-2-032, EN60529 IP40
EMC : EN61326, EN61000-3-2, EN61000-3-3
Ambient temperature of use : 0 to 40°C (32°F to 104°F), 80%rh or less (no condensation)
Storage temperature range : -10 to 50°C (14°F to 122°F) or less (no condensation)
Power supply : 6F22 manganese battery×1
(continuous operation : 20 hours)
Dimensions and mass : Approx. 62 W× 260 H×39 D mm, 540 g
(Approx 2.45" W× 10.3" H× 1.54" D, 19.1 oz.)

CLAMP ON AC/DC HiTESTER 3285-20

(All include TEST LEADS 9207-10, CARRYING CASE 9345, HAND STRAP)

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

HIOKI (Shanghai) Sales & Trading Co., Ltd. :
1608-1610 Shanghai Times Square Office, 93 Huai Hai Zhong Road, Shanghai, P.R.China POSTCODE: 200021
TEL +86-21-6391-0090/0092 FAX +86-21-6391-0360
E-mail: info-sh@hioki.com.cn

Beijing Office :
A-2602 Freetown, 58 Dong San Huan Nan Road Beijing, P.R.China POSTCODE: 100022
TEL +86-10-5867-4080/4081 FAX +86-10-5867-4090
E-mail: info-bj@hioki.com.cn

Guangzhou Office :
Room A-3206, Victory Plaza Services Center, No.103, Tiyuxi Road, Guangzhou, P.R.China POSTCODE: 510620
TEL +86-20-38392673/2676 FAX +86-20-38392679
E-mail: info-gz@hioki.com.cn

DISTRIBUTED BY