HIOKI

CLAMP ON **AC/DC** HITESTER

3284 [200A rms, Ø 33mm(1.30") max.]

3285/-20 [2000Arms, ø 55mm(2.17") max.]

Field measuring instruments



2000 A analysis

(3285 / 3285 - 20)



Analysis for DC to distorted Waves



CAT **III** 600 V

CE



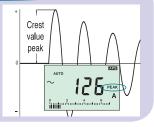


Analysis applications

Supporting a wealth of functions

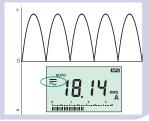
The peak hold function displays the crest value of the inrush current occurring when electrical equipment is started.





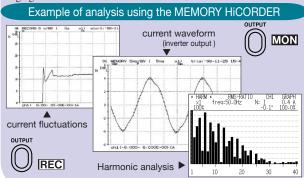
RMS value of

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





Using the external output functions of the 3284 or 3285 in combination with a HIOKI MEMORY HICORDER enables recording of current and frequency fluctuations and recording and harmonic analysis of instantaneous waveforms. The monitor output (MON) spans a wide frequency range from DC to 20 kHz (15 kHz in the case of 3285), which allows the units to be used for electric current analysis in various fields ranging from batteries to inverters.



3284 / 3285 Specifications [] in the Specification :3285,3285-20 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 2 [1] kHz	PEAK accuracy at DC or 45 to 66 Hz	Notes
Current (A)	DC	Average / PEAK	20.00 / 200.0	±1.3%rdg.±3dgt.	_	±1.3%rdg.±7dgt.*6	Max. allowable current
	AC	RMS / PEAK	[200.0 / 2000] Resolution is 0.1 [1] A during PEAK	±1.3%rdg.±3dgt.*2	±2.0%rdg.±5dgt.*3*4	±1.3%rdg.±7dgt.*6	200Arms cont. 300A peak max.
	AC+DC	RMS / PEAK		±1.3%rdg.±13dgt.*2	±2.0%rdg.±7dgt.*3*4	±1.3%rdg.±7dgt.*6	[2000Arms cont. 2840A peak max.]
Voltage (V)	DC	Average / PEAK	30.00 / 300.0 / 600	±1.0%rdg.±3dgt.	_	±1.0%rdg.±7dgt.	Max. allowable voltage
	AC	RMS / PEAK	Resolution is decreased by 1 digit except in the 600 V	±1.0%rdg.±3dgt.	±1.5%rdg.±5dgt.	±1.0%rdg.±7dgt.*7	600Vrms cont. 1000V peak max.
	AC+DC	RMS / PEAK	range during PEAK	±1.0%rdg.±7dgt.*5	±1.5%rdg.±7dgt.*5	±1.0%rdg.±7dgt.*7	
Frequency (Hz)	_	_	10.00 / 100.0/1000	$\pm 0.3\% rdg. \pm 1 dgt. \qquad \pm 1.0\% rdg. \pm 1 dgt. \ (at \ 1000 Hz)$		_	Effective in the V and A functions
$Resistance(\Omega)^{*8}$	_		1000/10.00k	±1.5%rdg.±5dgt.		_	Open terminal Voltage 3.1V DC or less
Continuity Check*8	_	_	1000	Threshold level $30\Omega \pm 5\Omega$ or less		_	Open criminal voltage 3.1 v De or less

*1 The peak hold function works automatically during PEAK measurement. *2 Add $\pm 1.0\%$ rdg. in the 1800 to 2000 A interval for the 3285. *3 Add $\pm 1.0\%$ rdg. in the 1k to 2kHz interval for the 3284. *4 No assured accuracy in the 1800 to 2000 A interval for the 3285. *5 Add 6 dgt. in the 30 V range. *6 Add $\pm 4.7\%$ rdg. in the 2300 to 2840 A interval for the 3285. *7 Add $\pm 1.0\%$ rdg. $\pm 1.0\%$ rdg. $\pm 1.0\%$ rdg. in the 2300 to 2840 A interval for the 3285. *7 Add $\pm 1.0\%$ rdg. $\pm 1.0\%$ r

Measurable conductor diameter: ø33 (1.30") mm, [ø55 (2.17") mm] max.

Max. usable circuit voltage: 600 Vrms (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 2 [1] kHz accuracy

External output: A/Hz only: recording output DC1V/fs. ±1.3% rdg.±10mV, Response: 250ms or less (at 0→90%)/ MON A only: Waveform output 1Vrms/f.s.±1.3% rdg.±5mV,

Frequency band: DC to 20 [15] kHz ±3dB

CLAMP ON AC/DC HITESTER 3284 CLAMP ON AC/DC HITESTER CLAMP ON AC/DC HITESTER

(All include TEST LEADS 9207-10, CARRYING CASE 9399(3284), CARRYING CASE 9345(3285/3285-20), HAND STRAP)

Effect of conductor position: within $\pm 0.5[0.7]$ % in any direction from the center of sensor

Effect of external magnetic field: 400 A/m corresponds to 0.5 [2] A max.

Crest factor: 25 or less, 1.7 or less in the 600 V range, 3284 is 1.5 or less in the 200A range [1.42 or less in the 2000A range

Safety standard: EN61010 CAT III 600V, 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: ACADAPTER 9445 (Except Model 3285-20.) or 6F22 manganese batteryx1

(continuous operation: Model 3284/3285-25 hours, Model 3285-20-20 hours)

Dimensions and mass : Approx. $62W \times 230[260]H \times 39D \text{ mm}$, 460[540]g (Approx 2.45" W× 9.06[10.3]" H× 1.54" D, 16.3[19.1] oz.)

Options

AC ADAPTER (UL) 9445-02 AC ADAPTER (EU) 9445-03

An AC Adapter can only be used with Models 3284 and 3285.

OUTPUT CORD(Jack to banana plug) 9094 *No CE marking

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