



3282 (1000A AC, Ø46mm max.) **3281** (600 A AC, Ø33mm max.)

DIGITAL CLAMP ON HITESTER Field measuring instruments Beats distorted Wavefo Current waveform of the inverter (primary side) True RMS function MEAN value method 3261 A0001 The MEAN value is RMS Non-fuse type! 40% lower than the true RMS True RMS method RANGE HOLD POWER 3281/3282 Peak Value HIOKI 3282 Peak value AUTO Crest factor DIGITAL CLAMP ON HITESTER \sim 600V -CAT IV 600V CAT IV $\tilde{\mathbf{v}}$ Ω Crest factor COM

HIOKI company overview, new products, environmental considerations and

3281

ISO 9001

ISO14001



Actual-size

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= Peak value/ RMS value

= 18.99 A/6.35 A = 2.99

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

Designed for ease of use on the site!

The HAND STRAP fits the device neatly to the hand



The HAND STRAP not only prevents the device from being dropped when working, but also effectively imparts strength when parting crowded wiring to clamp.

The photograph is 3281.

⚠ WARNING

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.

⚠ DANGER



- 1. 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.
- 2. In order to prevent short-circuits and injury when the clamp core tip is open, do not use bare conductors.

■ **Specifications** [] in the Specification :3281 23°C±5°C, 80% or less.

Function	Mode	Range	Accuracy	Maximum permissible input
AC current A	RMS Effective value	30.00	±1.0%rdg.±0.7%f.s. (40 to 1 kHz)	600A rms continuous 1700A max.
		300.0	±1.0%rdg.±5dgt.*1 (45 to 66 Hz)	
		1000	±1.0%rdg.±5dgt.*1(45 to 66 Hz)	1000A rms 5 minutes [600A rms continuous 1000A max.]
		[600]	$[\pm 1.0\% rdg. \pm 5 dgt. ^{^{*1}} (45 \text{ to } 66 \text{ Hz})]$	
	PEAK Peak value	30.0	±5.0%rdg.±5dgt.	600A rms continuous 1700A max.
		300	±3.0%rdg.±5dgt.	
		1000	±3.0%rdg.±5dgt.	1000A rms 5 minutes [600A rms continuous 1000A max.]
		[600]	[±3.0%rdg.±5dgt.]	
AC voltage	RMS	300.0/600	±1.0%rdg.±3dgt.*2(45 to 66 Hz)	600V rms continuous
	PEAK	300/600	±3.0%rdg.±5dgt.	1000V max.
Crest factor		1.00 to 5.00	±10.0%rdg.±5dgt.	700
Frequency Hz		100.0	±0.3% rdg.±1dgt. (30 to 99.9 Hz)	Effective in the voltage and current functions
		1000	$\pm 1.0\% rdg. \pm 1 dgt. $ (95 to 1000 Hz)	
Resistance Ω		1k/10.00k	±1.5%rdg.±5dgt.	Overload protection : 600V rms
Temperature probe sold separately	°C	-50 to 150°C	±2.0%rdg.±2dgt.	Open terminal voltage: 3.0V DC max.
	°F	-58 to 302°F	Add the accuracy of the 9462	(resistance,continuity functions)
continuity		1kΩ	Buzzer sounds at $30 \Omega \pm 5 \Omega$ or less	Tunctions)
Display		LCD, digital (3000 counts, 999 counts (peak)), bar graph (35 segments)		

^{*1. 40} to 45Hz, 66 to 1kHz ±1.5%rdg.±5dgt. *2. 40 to 45Hz, 66 to 1kHz ±1.5%rdg.±3dgt. Measurement accuracy applies to input of at least 10% of the current, voltage and resistance range.

3281 DIGITAL CLAMP ON HITESTER 3282 DIGITAL CLAMP ON HITESTER

(All include 9207-10 TEST LEAD, 9399 CARRYING CASE and HAND STRAP)

Option 9462 THERMISTER TEMPERATURE PROBE

Prevents careless mistakes

- •Auto-power off to conserve battery life
- ●Non-fuse type protects up to 600V AC



Even if voltage is mistakenly applied to the resistance range, the internal excessive voltage protection element (PTC thermister) protects the circuits for up to 600 V AC.

9462 THERMISTER TEMPERATURE PROBE (optional)

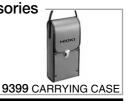


● Measuring range:-50 to 150°C/-58 to 302°F● Measuring accuracy: -50 to 50 °C±3°C/50 to 100°C±4°C/100 to 150°C±5°C Note: the temperature accuracy given above is only the accuracy for the temperature

probe. $\pm 2\%$ rdg. $\pm 2\%$ C(%F) is added for the actual accuracy of the 3281/3282 themselves.

● Measurable conductor diameter: 3282; ø46mm max. 3281 ; ø33mm max. •Operatable locations: up to 2000 m above sea level Operatable temperature and humidity range: 0°C to 40°C, 80%rh or lower ●Auxiliary functions: recording (for V, A, Hz measurements displays maximum value (MAX), minimum value (MIN), and average value (AVE)), data hold (holds display), auto power off (approx. 10 minutes, buzzer sounds just before power is turned off, can be extended or cancelled) Display refresh rate: digital display FAST; approx. 4 times/second, NORMAL; approx. 2 times/second, SLOW; 1 time/ 3 seconds, bar graph display approx. 4 times/second Frequency characteristic: 40Hz to 1kHz ● Effect of conductor **position:** At any position based on the center of the core 3281; within ±4.0%, 3282; within ±1.0% ●Effect of external magnetic field: In an external magnetic field of 400 A AC/m 3281; 1.5A max. 3282; 0.2A max. ● Circuit dynamic: when performing full-scale input to the range 2.5 or less (600 A [3282 is 1000 A], 600 V range is 1.7 or less) ● Maximum useable circuit voltage: 600 V rms (insulated conductor) Standards applying: Safety EN61010-1:2001 Pollution degree 2 over voltage category IV (predicted transitory excess voltage 8000 V), EN61010-2-031:2002, EN61010-2-032:1995 EMC EN61326:1997 +A1:1998+A2:2001 **Voltage resistance:** case-input terminal, between clamp cores 6.68 kV AC for 15 seconds • Power supply: Layered magnesium battery (6F22) X1, 45 hours or less (continuous use) ● Dimensions /mass: 3281; Approx 62WX218HX39Dmm,350g 3282; Approx. 62WX 230H X39Dmm, 400 g







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