

HIOKI

New

**& Improved
CAT IV 600V**

3282 (1000A AC, ø46mm max.)

3281 (600 A AC, ø33mm max.)

DIGITAL CLAMP ON HITESTER

Field measuring instruments



Beats distorted waveform

Easy to clamp!

Multi function!

Non-fuse type!



Current waveform of the inverter (primary side)

True RMS

NORMAL 3.76 A

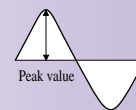
MEAN value method 3261

The MEAN value is 40% lower than the true RMS

AUTO 6.35 RMS A

True RMS method 3281/3282

Peak Value



Peak value

AUTO 18.9 PEAK A

Peak value

Crest factor

AUTO 2.99 C.F.

Crest factor

= Peak value/ RMS value
= 18.99 A/6.35 A
= 2.99



3281

CAT IV 600V



ISO 9001
JMI-0216



ISO14001
JQA-E-90091



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

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

Actual-size

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



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

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. ±2%rdg.±2°C(°F) is added for the actual accuracy of the 3281/3282 themselves.

■ 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 [600]	±1.0%rdg.±5dgt.*1(45 to 66 Hz) [±1.0%rdg.±5dgt.*1(45 to 66 Hz)]	1000A rms 5 minutes [600A rms continuous 1000A max.]
	PEAK Peak value	30.0	±5.0%rdg.±5dgt.	600A rms continuous 1700A max.
		300	±3.0%rdg.±5dgt.	
		1000 [600]	±3.0%rdg.±5dgt. [±3.0%rdg.±5dgt.]	1000A rms 5 minutes [600A rms continuous 1000A max.]
AC voltage V	RMS	300.0/600	±1.0%rdg.±3dgt.*2(45 to 66 Hz)	600V rms continuous 1000V max.
	PEAK	300/600	±3.0%rdg.±5dgt.	
Crest factor		1.00 to 5.00	±10.0%rdg.±5dgt.	Effective in the voltage and current functions
Frequency Hz		100.0	±0.3%rdg.±1dgt. (30 to 99.9 Hz)	
		1000	±1.0%rdg.±1dgt. (95 to 1000 Hz)	
Resistance Ω		1k/10.00k	±1.5%rdg.±5dgt.	Overload protection : 600V rms Open terminal voltage: 3.0V DC max. (resistance, continuity functions)
Temperature probe sold separately	°C	-50 to 150°C	±2.0%rdg.±2dgt.	
	°F	-58 to 302°F	Add the accuracy of the 9462	
continuity		1kΩ	Buzzer sounds at 30 Ω ± 5 Ω or less	
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 HI TESTER 3282 DIGITAL CLAMP ON HI TESTER

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

Option 9462 THERMISTER TEMPERATURE PROBE

HIOKI

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● Measurable conductor diameter: 3282 ; ø46mm max. 3281 ; ø33mm max. ● Operable locations: up to 2000 m above sea level ● Operable 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

Accessories



9207-10 TEST LEAD



9399 CARRYING CASE

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