

HIOKI



CLAMP ON HiTESTER 3291 CLAMP ON LEAK HiTESTER 3293

Field Measuring Instruments



The World's First Flip Clamp!

Measure Leak to Load with One Single Unit

True RMS

Super-thin jaw for even the narrowest spaces

FLIP CLAMP

Hold Maximum Value

10uA Resolution

Power ON simply by opening the jaw



3293: Leak to Load
(0.06mA to 1000A)

Display Flips!

3291: Wide Current Range
(0.06A to 1000A)



ISO 9001
JMI-0216



ISO 14001
JQA-E-90091



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

Specifications

- **Double-lever jaw** mechanism gets into even the **narrowest** spaces
- **Advanced sensor** makes it safe enough to clamp on **bare conductors**
- Simply **open** jaws to turn the **power on**
- **Flip** the cover to rotate the display and **view** measurements from any **angle**



- **Super bright backlight**
- **Advanced filter cuts off noise components** from harmonic and other sources
- Measure for **maximum value** simultaneously and hold max. value on **bar graph**

	3291 <i>Load</i>	3293 <i>Leak to Load</i>
Measurable conductor size	ø30mm max	ø24mm max
Rectification	True RMS	
Maximum rated voltage to earth	AC600Vrms	AC300Vrms
Measurement Range •Auto Range switching •Zero-suppress at 5 counts		30.00mA
		300.0mA
		6.000A
	60.00A	60.00A
	600.0A	600.0A
Accuracy	1000A	1000A
	±1.5%rdg. ±5dgt. (50Hz, 60Hz, fc=180) Filter OFF: ±2.0%rdg. ±5dgt. (45 to 66Hz) ±3.0%rdg. ±5dgt. (40 to 45Hz, 66 to 600Hz) (Add±1%rdg. for readings of 0.270 to 0.540A on the 3293)	
Accuracy Guaranteed Measurements	Minimum 5.40A	Minimum 1.00mA
Crest Factor	2.0 max (1.5 max when current exceeds 600A)	
Response Time	Max. 1.5s (Refers to time required to achieve 90% of accuracy specifications)	
Display Refresh Rate	Approx. 2 times/second (Bar graph: Approx. 4 times/second)	
Temperature Coefficient	Add (0.05 x accuracy specifications)/°C (at 0°C to 40°C)	
Effect of Conductor Position	within ±5.0%	within ±0.1% (at or below 6A range) within ±5.0% (at or below 60A range)
Effect of External Magnetic Field	<i>not defined</i>	Max 7.5mA (within a 400A/m magnetic field, at or below 6A range)
Other Functions	Display hold, maximum value hold (hold bar graph position), reversible LCD display, backlight, auto power off, auto power on when jaws are open, battery level indication	
Usage Environment	0°C to 40°C/32°F to 104°F, 80%rh max. (no condensation)	
Storage Environment	-10°C to 50°C/14°F to 122°F, 80%rh max. (no condensation)	
Standards	EN61010-2-032 Type A current sensor CATIII 600V, CATIV 300V, EN61326	EN61010-2-032 Type A current sensor, CATIII 300V, EN61326
Rated Voltage and maximum rated power	3V DC, 20mVA	
Power Supply and max. continuous use	Button type lithium battery (CR2032) x 1, Approx. 10 hours (continuous, no load)	
Dimensions and mass	50W x 136H x 26D mm, 90g 2" x 5" x 1", 3.2 oz	50W x 130H x 26D mm, 120g 2" x 5" x 1", 4.2 oz

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