

Camille Bauer Metrawatt AG

HIOKI 3283 -20 CLAMP ON LEAK HiTESTER

Features

- Wide bandwidth, 5 Hz to 15 kHz (Waveform output)
- High-sensitivity with a full scale of 10 mA (resolution: 10 μ A)
- High-accuracy at ± 1 %
- True RMS measurement



Product Outline

The 3283-20 CLAMP ON LEAK HiTESTER is designed for wide-range measurement on live circuits, from very small leak currents up to load currents of 200 amperes. The clamp part is made of material with high magnetic permeability, to minimize adverse effects caused by external magnetic fields, and to reduce tolerances due to the position of the measured conductor.

High-sensitivity range with 10-mA full-scale point:
Allows accurate measurement even of minute leak currents (resolution 10 μ A).

Wide measurement range:
Five range settings from 10 mA to 200 A make the 3283-20 suitable for many applications.

Microprocessor-controlled functions:
In spite of the compact dimensions of the unit, versatile functions such as SLOW and MAX/MIN are made possible by the built-in microprocessor.

True rms indication:
The true rms conversion circuit delivers accurate results not affected by leak current distortion.

Measurement Specifications

Function	Range	Accuracy
AC A	10.00 mA	$\pm 1\% \pm 5$ Digit (45...66 Hz)
	100.0 mA	
	1.000 A	$\pm 2\% \pm 5$ Digit (40...45 Hz / 66...2000 Hz)
	10.00 A	
	200.0 A	
Hz	100.0 Hz	$\pm 2\% \pm 5$ Digit (40...45 Hz / 66...2000 Hz)
	1000 Hz	$\pm 0.3\% \pm 1$ Digit (30.0...99.9 Hz)

Maximum permitted current	Range: 10 A Range: 200 A	20 A AC rms, continuous 200 A AC rms, continuous
Maximum conductor diameter for measurement		40 mm
Max. circuit voltage:		300 V AC rms (insulated wire)
Recording:		Maximum(MAX), minimum(MIN), average(AVE) value display selectable for AC current and frequency measurement
Sampling rate		2 or 4 times/sec (Slow: 1 time/3 sec)
Filter function:		Cutoff frequency 180 Hz - 30 Hz (-3 dB)
Effect of conductor position:		$\leq 0.1\%$
Effect of external magnetic fields:		AC 400 A/m corresponds to 5 mA, max. 7.5 mA
Crest factor (RMS):		2.5 (1.5 at 200 A range)
Overvoltage Category:		CAT III / 300 V - IP 40
Power supply		6F22(006P) $\times 1$ or AC adapter Continuous use 50 hours
Dimensions/mass		62W \times 225H \times 39D mm
Mass:		400g

Supplied accessories

- 3283 CLAMP ON LEAK HiTESTER
- Carrying Case
- Hand Strap
- Instruction manual
- Battery