



GCP-005

FEATURES

- Bandwidth : 40Hz ~ 1kHz
- Maximum Continuous Input Range : 5A
- Maximum Peak Current Value : 50A
- Accuracy : $\pm 0.5\%rdg \pm 0.1mV(50/60Hz)$
 $\pm 1\%rdg \pm 0.2mV(40\sim 1KHz)$

5Ampere Clamp Sensor Model GCP-005

High Efficiency on the Test Terminal in Power Distribution Facilities

40Hz~1KHz Current Measurement

For easily observing current waveforms under a low bandwidth and with high sensitivity, the GCP-005 only to be connected to the BNC input of a data logger or oscilloscope and clamped onto a conductor to start measurement.

Multiple Application for AC and DC Measurement

Using the combination of a Hall-effect sensor and an AC current transformer, GCP-005 provide accurate measurement of 40Hz to 1kHz and continue current up to 5A and peak current up to 50A. The split core construction allows the probe to easily clip on to a conductor without breaking the DUT.

APPLICATIONS

- Power Supply Design
- Power Device Evaluation
- Power Converter Design

SPECIFICATIONS

GCP-005	
Rated Voltage	AC 5A
Output Voltage	10mV/A (AC 50mV/AC 5A) (AC 500mV/AC 50A)
Measuring Range	AC 0 ~ 50Arms (70.7 Apeak)
Accuracy (Input : Sine Wave)	± 0.5%rdg ± 0.1mV (50/60Hz) ± 1.0%rdg ± 0.2mV (40 ~ 1kHz)
Phase Characteristics	± 2deg within (at 0.5 ~ 50A/45 ~ 65Hz)
Temperature & Humidity Range (Guaranteed Accuracy)	23±5 °C, relative humidity : 85% or Less (no condensation)
Operating Temperature Range	0 ~ 50 °C, relative humidity : 85% or Less (no condensation)
Storage Temperature Range	-20 ~ 60 °C, relative humidity : 85% or Less (no condensation)
Maximum Permissible Input	AC 50Arms continuous (50/60Hz)
Output Impedance	Approx. 19Ω
Location for Use	Altitude up to 2000m, Indoors
Applicable Standards	IEC 61010-1, IEC 61010-2-032 Measurement CAT. III (300Vrms) pollution degree 2, IEC 61326
Withstand Voltage	AC 3540Vrms (50/60Hz) for 5 sec, between Jaw and enclosure between enclosure and output terminal, between Jaw and output terminal
Insulation Resistance	50MΩ or greater at 1000V, between Jaw and enclosure between enclosure and output terminal, between Jaw and output terminal
Conductor Size	Approx. 24mm in diameter (max.)
Dimension	100(W) x 60(H) x 26(D) mm
Cable Length	Approx. 1.2m
Output Terminal	BNC
Weight	Approx. 160g
Accessories	Cable marker, Instruction manual

ORDERING INFORMATION

GCP-005 1kHz/50Arms A.C. Current Probe

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