



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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