



The GCP-020 is a clamp-type probe for measuring AC current waveforms. Ranging from 100mA to 240A, the GCP-020 is designed to perform high current measurement in a compact package.

Clamp to Measure : Safe and Easy

To perform current waveform measurement, just clamp the jaw around the conductor-under-test and connect its lead to the BNC input of an oscilloscope. Breaking the circuit and connecting an ammeter in series is no longer necessary.

Current Measurement from 40Hz to 40kHz for Various Instruments

Using the combination of a Hall-effect sensor and an AC current transformer, the GCP-020 provides accurate measurement from 40Hz to 40kHz. The dual measurement range spans 100mA ~ 24A(60A peak) and 500mA ~ 240A(600A peak). In addition to oscilloscopes, the GCP-020 can also be connected to multimeters and data loggers.

GCP-020

FEATURES

- Bandwidth : 40Hz ~ 40kHz
- Measurement Range :
100mA ~ 24A(60A peak) and
500mA ~ 240A(600A peak)
- Accuracy : $\leq 2\%$ (1A/100mV)
 $\leq 1.5\%$ (1A/10mV)
- Jaw Opening : 21mm Diameter

APPLICATIONS

- Harmonic Current Measurement
- Inrush Current Measurement
- Current Ripple and Noise Measurement
- Power Quality Analysis

SPECIFICATIONS

GCP-020																		
Bandwidth	40Hz ~ 40kHz																	
Ratio	100mA ~ 24A (60A peak) 500mA ~ 240A (600A peak)																	
Accuracy	Range																	
	<table border="1"> <thead> <tr> <th></th> <th>20A</th> <th colspan="4">200A</th> </tr> </thead> <tbody> <tr> <td>Primary Current</td> <td>0.1~20A</td> <td>0.5~10A</td> <td>10~40A</td> <td>40~100A</td> <td>100~240A</td> </tr> <tr> <td>% Accuracy of Output Signal</td> <td>≤2%+50mV</td> <td>≤3.5%+5mV</td> <td>≤3%+5mV</td> <td>≤2.5%+5mV</td> <td>≤1.5%+5mV</td> </tr> </tbody> </table>		20A	200A				Primary Current	0.1~20A	0.5~10A	10~40A	40~100A	100~240A	% Accuracy of Output Signal	≤2%+50mV	≤3.5%+5mV	≤3%+5mV	≤2.5%+5mV
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% Accuracy of Output Signal	≤2%+50mV	≤3.5%+5mV	≤3%+5mV	≤2.5%+5mV	≤1.5%+5mV													
Nominal Measuring Scope	500mA ~ 600A and 100mA ~ 60A																	
Ratio Input/Output	1A / 10mV and 1A / 100mV																	
Sinusoidal Current	48 ~ 65Hz																	
Connection	BNC																	
Direct Current	No																	
Temperature & Humidity Range (Guaranteed Accuracy)	20 ~ 26°C, relative humidity ; 20 ~ 75% (no condensation)																	
Continuous Magnetic Field	Earth Field (< 40A / m)																	
Proximity of External Conductors	No current																	
Measuring Device Impedance	> 1 MW and < 100pF																	
Max. Clamping Capacity	∅20mm cable or 20 x 5mm bar																	
Location for Use	Altitude up to 2000m, Indoors																	
Dimension	135(W) x 50(H) x 30(D) mm																	
Open Jaw Height	69mm																	
Weight	Approx. 180g																	
Jaw Opening	21mm																	

ORDERING INFORMATION

GCP-020 40kHz/200A A.C. Current Probe

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