



### 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



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.

#### APPLICATIONS

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

## GCP-020

**GW INSTEK**  
Simply Reliable

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

ORDERING INFORMATION	
<b>GCP-020</b>	40kHz/200A A.C. Current Probe