

High Frequency AC / DC Current Probe

CP Series



CP3005 / CP3008 / CP1510



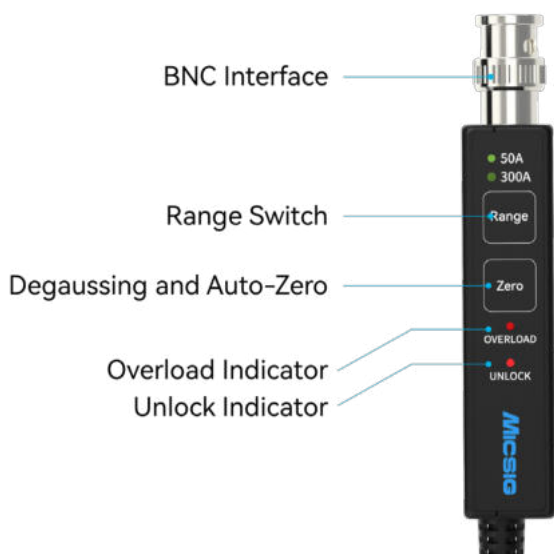
CP503B / CP1003B



Product Overview

With up to 100 MHz bandwidth and 300 Arms continuous current, the Micsig CP Series features 1% accuracy and 1 mA resolution for precise waveform capture and reliable measurements. A dual-range design covers both small-signal detection and high-current transient analysis, helping engineers optimize their designs. Featuring 5 mm and 20 mm jaw options, one-button degauss/auto-zero, and a built-in overcurrent alarm, the CP Series ensures easy operation and safety. The standard BNC interface is compatible with most oscilloscope brands, making it ideal for new energy and industrial electronics testing.

Product Features



Dual Range Selection

Dual range design, both small and large current testing.

Standard BNC Interface

BNC interface design, applicable to most of oscilloscopes.

Overload Indicator

The overload indicator will flash when the current is overloaded.

Jaw Status Indicator

Flashes when the clamp is not fully closed.

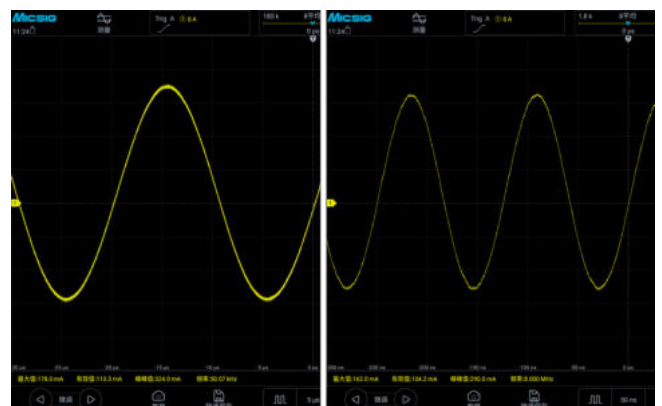
*Only CP3008, CP3005, and CP1510 models are equipped with OVERLOAD and UNLOCK indicators.

Wide Range and High Precision

From milliamps to 300 A rms, the CP Series delivers true-to-form signal reproduction with outstanding transient response — capturing every spike and waveform detail with precision.

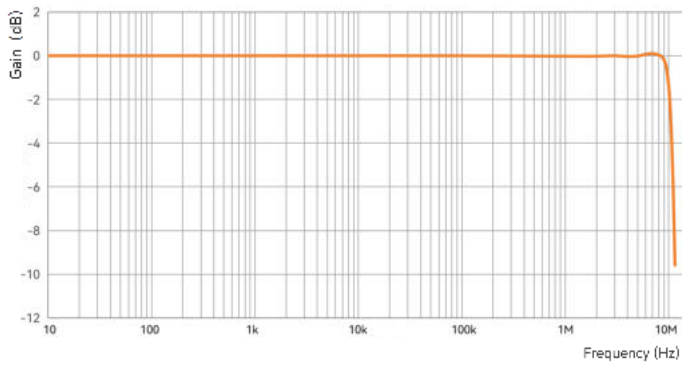


CP3008: Accurate transient capture for 400 A high-current signals.



CP3008: Maintains 92% of the original current value when adjusting a 113 mV signal from 50 kHz to 8 MHz, ensuring accuracy in high-frequency measurements.

Amplitude-frequency characteristic curve - CP1510



Excellent Frequency Characteristics

CP Series features exceptional bandwidth flatness with wide frequency response, preserving pulse current with no attenuation in low frequencies and smooth transition at high-frequency cutoffs.

Product Specifications

Model	CP3008	CP3005	CP1510	CP503B	CP1003B
Bandwidth	8MHz	5MHz	10MHz	50MHz	100MHz
Rise time	≤ 53ns	≤ 70ns	≤ 46ns	≤ 7ns	≤ 3.5ns
Max. Current Input	300Arms, 500Apk	300Arms, 500Apk	150Arms, 300Apk	30Arms, 50Apk	30Arms, 50Apk
Range	50Arms (50A) 300Arms (300A)	50Arms (50A) 300Arms (300A)	30Arms (30A) 150Arms (150A)	5Arms (5A) 30Arms (30A)	5Arms (5A) 30Arms (30A)
Accuracy (Max continuous current @ DC and 45-66Hz)	±1% ±10mA (50A) ±1% ±100mA (300A)	±1% ±10mA (50A) ±1% ±100mA (300A)	±1% ±10mA (30A) ±1% ±100mA (150A)	±1% ±1mA (5A) ±1% ±10mA (30A)	±1% ±1mA (5A) ±1% ±10mA (30A)
Lowest measurable current	10mA (50A) 100mA (300A)	10mA (50A) 100mA (300A)	10mA (30A) 100mA (150A)	1mA (5A) 10mA (30A)	1mA (5A) 10mA (30A)
Noise (20 MHz limitation)	<1.5mArms (50A) <12mArms (300A)	<1.5mArms (50A) <12mArms (300A)	<1.5mArms (30A) <10mArms (150A)	<4mApp (5A) <30mApp (30A)	<4mApp (5A) <30mApp (30A)
Output Sensitivity	1V / 10A (50A, 10X) 1V / 100A (300A, 100X)	1V / 10A (50A, 10X) 1V / 100A (300A, 100X)	1V / 10A (30A, 10X) 1V / 100A (150A, 100X)	1V / 1A (5A, 1X) 1V / 10A (30A, 10X)	1V / 1A (5A, 1X) 1V / 10A (30A, 10X)
Power Supply	DC 12V			DC 12V	
Max. Conductor Diameter	20mm			5mm	
Cable length	2m			1m	
Interface	Standard BNC Interface				



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*The final interpretation of this content is vested in Shenzhen Micsig Technologies Co., Ltd. For any updates to relevant information, please follow the official Micsig website (www.micsig.com).