

# High Frequency AC / DC Current Probe

## CP Series



CP3005 / CP3008 / CP1510



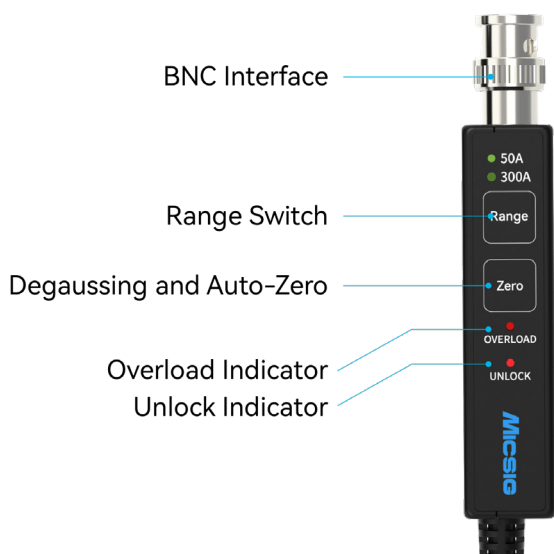
CP503B / CP1003B



## 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.

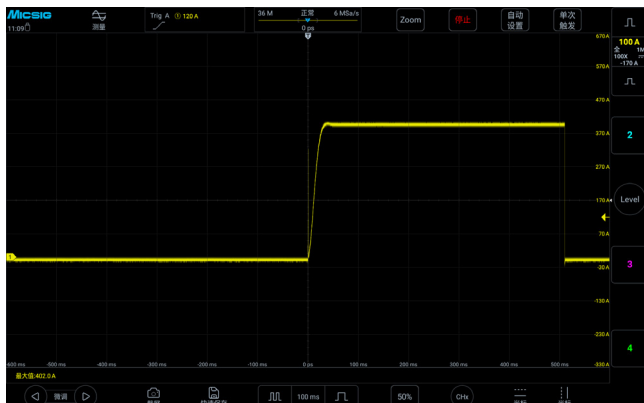
### Jaw Status Indicator

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.

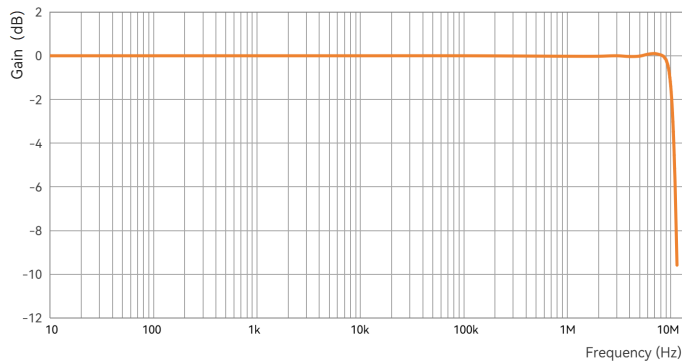


CP3008: Accurate transient capture for 400 A high-current signals.



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)<br>300Arms (300A)                | 50Arms (50A)<br>300Arms (300A)                | 30Arms (30A)<br>150Arms (150A)                 | 5Arms (5A)<br>30Arms (30A)              | 5Arms (5A)<br>30Arms (30A)              |
| Accuracy<br>(Max continuous<br>current @ DC and<br>45–66Hz) | ±1% ±10mA (50A)<br>±1% ±100mA (300A)          | ±1% ±10mA (50A)<br>±1% ±100mA (300A)          | ±1% ±10mA (30A)<br>±1% ±100mA (150A)           | ±1% ±1mA (5A)<br>±1% ±10mA (30A)        | ±1% ±1mA (5A)<br>±1% ±10mA (30A)        |
| Lowest<br>measurable<br>current                             | 10mA (50A)<br>100mA (300A)                    | 10mA (50A)<br>100mA (300A)                    | 10mA (30A)<br>100mA (150A)                     | 1mA (5A)<br>10mA (30A)                  | 1mA (5A)<br>10mA (30A)                  |
| Noise (20 MHz<br>limitation)                                | <1.5mArms (50A)<br><12mArms (300A)            | <1.5mArms (50A)<br><12mArms (300A)            | <1.5mArms (30A)<br><10mArms (150A)             | <4mApp (5A)<br><30mApp (30A)            | <4mApp (5A)<br><30mApp (30A)            |
| Output Sensitivity  | 1V / 10A (50A, 10X)<br>1V / 100A (300A, 100X) | 1V / 10A (50A, 10X)<br>1V / 100A (300A, 100X) | 1V / 10A (30A, 10X )<br>1V / 100A (150A, 100X) | 1V / 1A (5A, 1X)<br>1V / 10A (30A, 10X) | 1V / 1A (5A, 1X)<br>1V / 10A (30A, 10X) |
| Power Supply  | DC 12V  |   |  | DC 12V                                  |   |
| Max. Conductor<br>Diameter                                  | 20mm  |   |  | 5mm                                     |   |
| Cable length  | 2m  |   |  | 1m                                      |   |
| Interface   | Standard BNC Interface                        |   |  |   |   |



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