

Low Frequency AC/DC Current Probe

CP2100 series

- ▶ Bandwidth: DC~2.5MHz
- ▶ Maximum measurable current: 100Apk(70.7Arms)
- ▶ Max. conductor diameter: 13mm
- ▶ Auto & Manual "Zero" function
- ▶ Directly powered by USB port
- ▶ Standard BNC interface, compatible with any oscilloscope

Bandwidth
DC ~ 2.5MHz

Max. measurable current
Up to 100Apk

Double range
10A / 100A

Power supply
USB DC 5V

Conductor diameter
13mm

Interface
BNC



Shenzhen Micsig Technology Co., Ltd.

www.micsig.com



Micsig Website

Product Overview

The CP2100 series is a current probe for DC and AC. It has a split design, a nice look, uses BNC, suits oscilloscopes and multimeters. The max current is 100Apk (70.7Arms), with 2 models: CP2100A (DC~800kHz), CP2100B (DC~2.5MHz) and 10A/100A ranges. It has auto and manual zero adjustment, is USB-powered, and is used in motor drives, power frequency, inverters, etc.

Characteristics

Model	CP2100A	CP2100B
Bandwidth	DC~800kHz	DC~2.5MHz
Rise Time	≤ 437.5ns	≤ 140ns
Ranges	10A/100A	
Output sensitivity	0.1V/A (10A) ; 0.01V/A (100A)	
DC accuracy (typical)	3%±50mA (10A) ; 4%±50mA (100A, 500mA~40Apk) 15% (100A, 40Apk~100Apk)	
Signal delay	100ns	
Current measurement range	50mA~10Apk (10A) ; 1A~100Apk (100A)	
Max. measuring current	100Apk, 70.7Arms (DC+AC pk)	
Max. working voltage	CAT III 300V CAT II 600V	
Max. float voltage	CAT III 300V CAT II 600V	
Max. conductor diameter	13mm	
Overload alarm	Buzzer beeps Button flashes	
Power supply	DC 5V	
Net weight	290g	
Package weight	1000g	
Operating temperature	0~50° C	
Operating humidity	5%~95% (0~40°C , No condensation) 5%~65% (40°C ~50°C , No condensation)	
CE Standard	EN 61010-2-032	
EMC Standard	EN 61326-1:2013, EN 61326-2-1:2013	

Application

- * Measurement and fault analysis of power circuits
- * Measurement of motor drives such as frequency converters
- * Measurement of power electronic devices
- * Power frequency applications and measurements
- * Avionics applications

Micsig Shenzhen Micsig Technology Co., Ltd.

Tel: +86-(0)755-88600880 Email: sales@micsig.com Website: www.micsig.com

Add: 6F, Jinhuan Building, No. 56, Tiezai Rd, Bao'an District, Shenzhen, Guangdong, China.

*Micsig reserves all the rights of interpretation at any time, it is subject to update without prior notice.

Version: 241206