

Current Probe

Parameter	Model	CP4020	CP4050	CP4070	CP4070A
					
Bandwidth		DC-100 kHz	DC-1 MHz	DC-150 kHz	DC-300 kHz
Rise time		≤3.5 μS	≤0.35 μS	≤2.3 μS	≤1.2 μS
Max.effective value of AC		20 Arms	50 Arms	70 Arms	70 Arms
Peak-Peak Value		60 A	140 A	200 A	200 A
Range Switch		50 mV/A; 5 mV/A	500 mV/A; 50 mV/A	50 mV/A; 5 mV/A	100 mV/A; 10 mV/A
DC Accuracy		±2% (0.4 A-10 ApK) at 50 mV/A ±2% (1 A-60 ApK) at 5 mV/A	±3%±20 mA (20 mA-14 ApK) at 500 mV/A; ±4%±200 mA (200 mA-100 ApK) at 50 mV/A; ±15% max (100 A-140 ApK) at 50 mV/A	±2% (0.4 A-10 ApK) at 50 mV/A ±2% (1 A-200 ApK) at 5 mV/A	±3%±50 mA (50 mA-10 ApK) at 100 mV/A; ±4%±50 mA (500 mA-40 ApK) at 10 mV/A; ±15% max (40 A-200 ApK) at 10 mV/A
Power Supply		9 V battery			
Max. rated voltage to earth		300 V CAT III 600 V CAT II			
Conductor Size		10.3 mm	10.3 mm	10.3 mm	11 mm
Cable Length		200 cm	100 cm	100 cm	100 cm
Weight		310 g	310 g	310 g	260 g

Parameter	Model	CP5030	CP5030A	CP5150	CP5500
					
Bandwidth		DC-50 MHz	DC-100 MHz	DC-12 MHz	DC-5MHz
Rise time		≤7 ns	≤3.5 ns	≤29 ns	≤70ns
Max.effective value of AC		30 Arms	30 Arms	150 Arms	500 Arms
Peak-Peak Value		50 A	50 A	300 A	750 A
Range		5 A (1 X)/ 30 A (10 X)	5 A (1 X) / 30 A (10 X)	30 A (1X)/150 A(10 X)	75 A (1 X)/500 A(10 X)
Overload Value		5 A (≥5 A) 30 A (≥50 A)	5 A (≥5 A) 30 A (≥50 A)	30 A(≥30 A) 150 A (≥300 A)	75 A (≥50 A) 500 A (≥500 A)
Current Transfer Ratio		5 A (1 V/A) 30 A (0.1 V/A)	5 A (1 V/A) 30 A (0.1 V/A)	30 A (0.1 V/A) 150 A (0.01 V/A)	75 A (0.1 V/A) 500 A (0.01 V/A)
Measurement Resolution		5 A (1 mA) 30 A (10 mA)	5 A (1 mA) 30 A (10 mA)	30 A (5 mA) 150 A (50 mA)	75 A (5 mA) 500 A (50 mA)
DC Accuracy		5 A (±1%±1 mA) 30 A (±1%±10 mA)	5 A (±1%±1 mA) 30 A (±1%±10 mA)	30 A (±1%±10 mA) 150 A (±1%±100 mA)	75 A (±1%±10 mA) 500 A (±1%±100 mA)
Power Supply		DC 12 V/1.2 A			
Max. rated voltage to earth		300 V CAT III			300 V CAT III 600 V CAT II
Conductor Diameter Max.		5 mm			20 mm
Cable Length		1 m			1.5 m
BNC Length		100 cm			
Weight		240 g			500 g 510 g

Parameter	CPL5100	
		
Range level	23°C , 60%RH, cable under test get through the test center, load resistance 1MΩ	
Current range	L	H
Attenuation accuracy	50 mA~10 A Peak	1 A~100 A Peak
Typical DC precision	0.1 V/A	0.01 V/A
Band Width (-3dB)	DC-600 kHz	
DC Accuracy	3%±50 mA	1500 mA~40 A Peak: 4%±50 mA; 40 A~100 A Peak: ±15% Maximum
Phase shift	DC~65 Hz: <1.5°	DC~65 Hz: <1°
Typical DC linearity	The typical DC linearity at H level (0.01 V/A), Figure 4	
Rise time	≤583 ns	
Max operation current	10 A	100 A
Max operation voltage	600 V	
Max floating voltage	600 V	
Operating voltage RMS	CATI 600 V CATII 600 V CATIII 300 V	
Common mode voltage RMS	CATI 600 V CATII 600 V CATIII 300 V	
Typical battery type and life	9 V alkaline layer-built battery/ 15 H	
Low power indication	When battery voltage is lower than 6.5 V, battery indicator will turned red and alert	
Overload indication	When the current under test surpasses the range, the buzzer will buzz	
Length of the cable connecting current clamp and output box	1 m	
Length of double terminal BNC cable	1 m	
Weight	About 223 g (without battery)	