

D20

200A AC/DC CURRENT SENSOR

The Model D20 AC/DC current sensor is a portable 100A/200Arms current clamp with insulated BNC output cable that can accurately measure AC or DC current waveforms. The unit has proportional mV output for direct readings on oscilloscopes from DC to 1MHz at -3dB. The D20 is power by a rechargeable multimeter battery or from a 9 V power signal cable. It is the perfect tool for most of the oscilloscopes.

The D20 current sensor is a general purpose 200A AC/DC current probe designed for use with DMMs, oscilloscopes, power loggers, multimeters and energy meter calibration instruments that have a current input. It has a 1000:1 ratio and output of 10mV per amp measured in the jaw. The D20 AC/DC current sensor has an integral 2.5m lead terminated. The rounded jaw design on this current clamp makes it well-suited for power applications where high linearity 0.1% and low phase shift and wide frequency response up to 200kHz are important.

Features

- 1. UL, CE, CNAS mark;
- 2. 10mV/A output signal;
- 3. Frequency 1MHz Bandwidth;
- 4. With harmonic measurement;
- 5. Holding wire diameter: φ20mm;
- 6. Conforms to EN 61010, 600V CAT III;
- 7. Frequency response from DC to 200 KHz;
- 8. Low phase shift for power measurement;
- 9. High content nickel metal permalloy core;
- 10. Measurement range 0-100A/0-200 AC/DC;
- 11. Improved ergonomic design & easy operation;
- 12. High precision 0.1% for DC current measurement;
- 13. Automatic compensation for earth's magnetic influence;
- 14. Designed for DMMs, oscilloscopes, recorders, loggers, harmonic meters;



1. Multimeter: 5. Battery load analysis;

6. Power load monitoring;

3. Oscilloscopes; 7. Data logging/recording;

12. Waveform analysis(oscilloscopes meter);

2. Power meter;

8. Energy meter calibrator;

9. Power quality analyzer(PQA);

10. Power and harmonic meters;

11. Measuring around cable bundles;







Parameters

Electrical parameters			
Ratio	1000: 1 or 2000:1 (customized)		
Accuracy class	0.2%, 0.5%, 1%, 2%		
Primary current	0 - 100A or 0-200A AC/DC		
Signal output	10mV/A or 1mV/A		
Secondary voltage	0 - 1V or 0 - 2V AC/DC		
Max. Cont. Input current	200A AC/DC		
Load capacity	\leq 20 Ω , Standard 4 Ω		
Over voltage category	CAT III 600V		
Linearity	0.1%		
Frequency range	10Hz-1MHz		
Frequency response time	≤10us		
Phase Shift at 50/60Hz	±0.1°		
Dielectric strength	3KV 50Hz/60Hz at 1minute		
Temperature range	-40°C to +55°C		
Output	2.5 meter cable with D01 or BNC connector, 4mm banana		
Max. voltage not insulated conductors	720 V		
Power supply	5V or 9V DC		
Standard	EN 61010-1, EN 61010-2-032, EN 61010-2-031		
	IEC60044-1, & IEC61869-2, 600V CAT III		
Installation	clamp type		
Output mode	lead output(2.5m)		
Pollution Degree	2		
Protection	IP40		
Connector	BNC, 4mm banana, signal cable(4 cores), customized		
Mechanical parameters			
Dimensions (L x W x H) (mm)	53 x 138 x 28		
Weight (g)	420		
Holding wire diameter (mm)	ф20		
Max. jaw opening (mm)	20		
Jaw color	Red, black		
Material	PC+ABS, UL94 V0		



Selection Guide

Model	Rate Current	Max Current	Secondary Current	Coil Ratio	Burden Resistance	Accuracy
D20V1-100	100A	120A	1V	1000:1	customized	0.2%
D20V1-200	200A	240A	1V	1000:1	customized	0.2%
D20V2-100	100A	120A	2V	2000:1	customized	0.2%
D20V2-200	200A	240A	2V	2000:1	customized	0.2%
D20V15-100	100A	120A	1V	1000:1	customized	0.5%
D20V15-200	200A	240A	1V	1000:1	customized	0.5%
D20V25-100	100A	120A	2V	2000:1	customized	0.5%
D20V25-200	200A	240A	2V	2000:1	customized	0.5%
D20V11-100	100A	120A	1V	1000:1	customized	1%
D20V11-200	200A	240A	1V	1000:1	customized	1%
D20V21-100	100A	120A	2V	2000:1	customized	1%
D20V21-200	200A	240A	2V	2000:1	customized	1%

Notes: Can be customized current probe according to user requirements!