

## P18

### EUROPE STANDARD 200KHZ 10A/100A DOUBLE RANGE SPLIT CORE CLAMP ON CT

The round jaw design on the P18 Series double range clamp on ct along with the high content permalloy core makes them well suited for power quality applications where high accuracy and low phase shift along with wide frequency ~200kHz are important. Measurement range is 1mA to 200A. for example 10A/100A, 20A/200A range.

The P18 clamp on ct is a general purpose 200A AC current clamp probe designed for use with DMMs, power loggers and energy meter calibration instruments that have a current input. It has a 1000:1 or 2000:1 ratio and output of 1mA per amp or 1mV per amp measured in the jaw. The P18 clamp ct has an integral 2.5m lead terminated. The rounded jaw design on this current clamp makes it well-suited for power applications where high accuracy 0.1% and low phase shift and wide frequency response are important. It can as one high precision clamp on current transformer for metering device.

All of our clamp on cts are strictly comply IEC60044-1, IEC 61869-2, ANSI/IEEE C57.13, GB1208-2006, GB/T 20840.1-2010, GB/T 20840.2-2014, GB/T 22071.1-2018, IEC/EN61010-2-032, IEC/EN 61010-2-031.

## Features

1. UL, CE mark;
2. High content permalloy core;
3. Holding wire diameter:  $\phi 18\text{mm}$ ;
4. Frequency 10Hz-2MHz Bandwidth;
5. 128 times harmonic measurement;
6. Conforms to EN 61010, 600V CAT III;
7. Measurement range of 1mA to 240A AC;
8. Low phase shift for power measurement;
9. Double range 10A/100A or 20A/200A design;
10. Improved ergonomic design & easy operation;
11. As a high accuracy clamp current transformer;
12. High precision 0.1% for current measurement;
13. Large jaw opening accommodates conductors up to two 500kcoil;
14. IEC/EN61010-2-032, IEC/EN 61010-2-031, IEC 61869-2 etc standard;
15. Designed for DMMs, recorders, loggers, oscilloscopes, power and harmonic meters;



## Applications

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|-------------------------------------|----------------------------------|-------------------------------------|
| 1. Multimeter;                      | 2. Power meter;                  | 3. Oscilloscopes;                   |
| 4. Phase angle meter;               | 5. Waveform analysis;            | 6. Energy sub-meters;               |
| 7. Large industrial loads;          | 8. Earth resistance meter;       | 9. Power load monitoring;           |
| 10. Data logging/recording;         | 11. Power quality monitoring;    | 12. Electricity meter calibrator;   |
| 13. Power and harmonic meters;      | 14. Power quality analyzer(PQA); | 15. CT secondary current detection; |
| 16. Measuring around cable bundles; |                                  |                                     |

## Parameters

Technical parameters	
Ratio	1000: 1 , 2000:1, 2500:1, 4000:1 (customized)
Accuracy Class	0.1%, 0.2%
Primary current	0-100A AC, 0-200A AC
Signal output	1mA/A, 1mV/A, 10mV/A, 100mV/A
Secondary voltage	0 - 100mV AC, 0 - 1V AC, 0 - 5V AC;
Secondary current	0-40mA, 0-100mA or 0-200mA AC
Max. Cont. Input current	120A or 240A
Load capacity	≤20Ω, standard 4Ω
Over voltage category	CAT III 600V
Frequency range	10Hz-2MHz
Dielectric strength	3KV 50Hz/60Hz at 1minute
Temperature range	-40°C to +55°C
Output	2.5 meter cable with D01 or BNC connector
Max. voltage not insulated conductors	720 V
Standard	EN 61010-1, EN 61010-2-032, EN 61010-2-031 IEC60044-1, & IEC61869-2, 600V CAT III
Ratio type	single winding, or double winding
Installation	clamp type
Range	10A, 20A, 100A, 200A optional
Output mode	lead output(2.5m)
Output signal	333mV, 500mV, 1V, 2V, 5V AC at nominal input current
Connector	BNC, 4mm banana, signal cable(2 cores),customized

Accuracy (100A/200A Range)	
0-1A	≤0.5%
1-10A	≤0.2%
10-200A	≤0.1%
Phase Shift(100A/200A Range)	
0-1A	≤0.5°
1-10A	≤0.2°
10-200A	≤0.1°
Mechanical parameters	
Dimensions (L x W x H) (mm)	52.5 x 137 x 28
Weight (g)	400
Holding wire diameter (mm)	φ18
Max. jaw opening (mm)	18
Jaw color	Red, yellow, blue, green, black
Material	PC+ABS, UL94 V0

## Selection Guide

Model	Rate Current	Max Current	Secondary Current	Coil Ratio	Burden Resistance	Accuracy
P18-5	5A	6A	5mA	1000:1	customized	0.1%
P18-10	10A	12A	10mA	1000:1	customized	0.1%
P18-20	20A	24A	20mA	1000:1	customized	0.1%
P18-100	100A	120A	100mA	1000:1	customized	0.1%
P18-200	200A	240A	200mA	1000:1	customized	0.1%
P18-10-2	10A	12A	10mA	1000:1	customized	0.2%
P18-20-2	20A	24A	20mA	1000:1	customized	0.2%
P18-100-2	100A	120A	100mA	1000:1	customized	0.2%
P18-200-2	200A	240A	200mA	1000:1	customized	0.2%
P18-5	5A	6A	2.5mA	2000:1	customized	0.1%
P18-10	10A	12A	5mA	2000:1	customized	0.1%
P18-20	20A	24A	10mA	2000:1	customized	0.1%
P18-100	100A	120A	50mA	2000:1	customized	0.1%
P18-200	200A	240A	100mA	2000:1	customized	0.1%

Model	Rate Current	Max Current	Secondary Current	Coil Ratio	Burden Resistance	Accuracy
P18-10-2	5A	6A	2.5mA	2000:1	customized	0.2%
P18-10-2	10A	12A	5mA	2000:1	customized	0.2%
P18-20-2	20A	24A	10mA	2000:1	customized	0.2%
P18-100-2	100A	120A	50mA	2000:1	customized	0.2%
P18-200-2	200A	240A	100mA	2000:1	customized	0.2%
P18-10	10A	12A	2.5mA	4000:1	customized	0.1%
P18-20	20A	24A	5mA	4000:1	customized	0.1%
P18-100	100A	120A	25mA	4000:1	customized	0.1%
P18-200	200A	240A	50mA	4000:1	customized	0.1%
P18-10-2	10A	12A	2.5mA	4000:1	customized	0.2%
P18-20-2	20A	24A	5mA	4000:1	customized	0.2%
P18-100-2	100A	120A	25mA	4000:1	customized	0.2%
P18-200-2	200A	240A	50mA	4000:1	customized	0.2%
Model	Rate Current	Max Current	Secondary Voltage	Coil Ratio	Burden Resistance	Accuracy
P18V1-100	100A	120A	1V	1000:1	customized	0.1%
P18V2-100	100A	120A	2V	1000:1	customized	0.1%
P18V5-100	100A	120A	5V	1000:1	customized	0.1%
P18V10-100	100A	120A	10V	1000:1	customized	0.1%
P18V1-200	200A	240A	1V	1000:1	customized	0.1%
P18V2-200	200A	240A	2V	1000:1	customized	0.1%
P18V5-200	200A	240A	5V	1000:1	customized	0.1%
P18V1-100-2	100A	120A	1V	1000:1	customized	0.2%
P18V2-100-2	100A	120A	2V	1000:1	customized	0.2%
P18V5-100-2	100A	120A	5V	1000:1	customized	0.2%
P18V10-100-2	100A	120A	10V	1000:1	customized	0.2%
P18V1-200-2	200A	240A	1V	1000:1	customized	0.2%
P18V2-200-2	200A	240A	2V	1000:1	customized	0.2%
P18V5-200-2	200A	240A	5V	1000:1	customized	0.2%
P18V1-100-D	10A/100A	12A/120A	1V	1000:1	customized	0.1%
P18V2-200-D	20A/200A	24A/240A	2V	1000:1	customized	0.1%

Notes: Can be customized clamp on current transformers according to user requirements!