

## P8S

### HIGH QUALITY EUROPE STANDARD 5A 10A 20A CLAMP ON CT

The model P8S current probe is a permalloy core ac clamp on ct with high accuracy up to 0.1% has been designed for use with on-site energy meter calibrator, multimeters, recorders, power quality analyzers, safety testers etc. It has low phase shift for power measurement, greatly suitable for harmonic measurement and oscilloscope measuring current wave. This P8S clamp on ct can convert 0 - 20A AC current to 0 - 20mA AC current with real shape, max 50A measurement, but with high time harmonic measurement function. It is suitable for leakage current measurement in the field.

### Features

1. UL, CE CNAS mark;
2. Small, compact size;
3. High times harmonic measurement;
4. 10Hz to 2MHz bandwidth response;
5. Low phase shift for power measurement;
6. High content nickel metal permalloy core;
7. Min 1mA for leakage current measurement;
8. Measurement current range of 1mA to 30A AC;
9. Improved high quality design and easy operation;
10. Ratio 1000:1 2000:1 or 2500:1, high precision 0.1%;
11. Designed to EN 61010, 600V CAT III safety standard;
12. 1mA/A, 0.5mA/A, 10mV/A, 100mV/A AC output signals;
13. Jaw opening accommodates conductors up to 8mm diameter;
14. Designed for DMMs, loggers, power analyzer, recorders and oscilloscopes;



### Application

1. Multimeter;
2. Power meter;
3. Oscilloscopes;
4. Energy sub-meters;
5. Digital multi-meter;
6. Phase angle meter;
7. Power quality analyzer;
8. Leakage current meter;
9. Data logging/recording;
10. Power quality monitoring;
11. Power and harmonic meters;
12. Multi-function energy meter;
13. CT secondary current detection;
14. Electricity meter calibrator (on site);

## Connector Optional

Signal Wire (two core)	4mm Banana	BNC	Audio	Customized
				

## Parameters

Electrical parameters	
Ratio	1000: 1, 2000:1 or 2500:1 (customized)
Accuracy class	0.1 %,0.2%
Phase shift	<10'
Primary current	0 - 5A AC, 0 - 10A AC, 0 - 20A, 0-30A AC
Secondary current	0 - 5mA AC, 0 - 10mA AC, 0 - 20mA AC (customized)
Secondary voltage	0-0.1V AC, 0-0.5V AC, 0-1V AC, 0-5V AC
Max. Cont. Input current	50A
Load capacity	≤20Ω, Standard 4Ω
Over voltage category	CAT III 600V
Output signal (AC current)	From 0 to 10mA AC at nominal input current
Output signal (AC voltage)	From 0 to 0.5V AC at nominal input current
Signal ratio	1mA/A, 1mV/A, 10mV/A, 100mV/A
Frequency range	10Hz-500KHz
Dielectric strength	3KV 50Hz/60Hz at 1minute
Temperature range	-20°C to +55°C
Output	2.5 meter cable with D01 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
Installation	clamp type
Output mode	lead output(2.5m)
Connector	Audio connector, BNC, 4mm banana, signal cable(2 cores)
Mechanical parameters	
Dimensions (L x W x H) (mm)	52.5x135.5x28
Weight (g)	300
Holding wire diameter (mm)	φ8
Max. jaw opening (mm)	8
Color	Black + red , Black + yello, Black + blue
Material	PC+ABS+Polycarbonate, UL94 V0

## Selection guide

Model	Rate Current	Max Current	Secondary	Coil Ratio	Burden Resistance	Accuracy
P8S-1-1	1A	1.2A	1mA	1000:1	customized	0.1%
P8S-1-2	1A	1.2A	0.5mA	2000:1	customized	0.1%
P8S-5-1	5A	6A	5mA	1000:1	customized	0.1%
P8S-5-2	5A	6A	2.5mA	2000:1	customized	0.1%
P8S-5-3	5A	6A	2mA	2500:1	customized	0.1%
P8S-10-1	10A	12A	10mA	1000:1	customized	0.1%
P8S-10-2	10A	12A	5mA	2000:1	customized	0.1%
P8S-10-3	10A	12A	4mA	2500:1	customized	0.1%
P8S-20-1	20A	24A	20mA	1000:1	customized	0.1%
P8S-20-2	20A	24A	10mA	2000:1	customized	0.1%
P8S-30-1	30A	36A	30mA	1000:1	customized	0.1%
P8S-30-2	30A	36A	15mA	2000:1	customized	0.1%
P8S-30-3	30A	36A	12mA	2500:1	customized	0.1%
P8S-30-3	30A	36A	10mA	3000:1	customized	0.1%
P8S-V5-1	5A	6A	50mV	1000:1	customized	0.1%
P8S-V5-2	5A	6A	500mV	1000:1	customized	0.1%
P8S-V5-3	5A	6A	1V	1000:1	customized	0.1%
P8S-V10-1	10A	12A	100mV	1000:1	customized	0.1%
P8S-V10-2	10A	12A	1V	1000:1	customized	0.1%
P8S-V10-3	10A	12A	5V	1000:1	customized	0.1%
P8S-V20-1	20A	24A	200mV	1000:1	customized	0.1%
P8S-V20-2	20A	24A	1V	1000:1	customized	0.1%
P8S-V20-3	20A	24A	5V	1000:1	customized	0.1%
P8S-V20-4	20A	24A	10V	1000:1	customized	0.1%
P8S-1-12	1A	1.2A	1mA	1000:1	customized	0.2%
P8S-1-22	1A	1.2A	0.5mA	2000:1	customized	0.2%
P8S-5-12	5A	6A	5mA	1000:1	customized	0.2%
P8S-5-22	5A	6A	2.5mA	2000:1	customized	0.2%
P8S-10-12	10A	12A	10mA	1000:1	customized	0.2%
P8S-10-22	10A	12A	5mA	2000:1	customized	0.2%
P8S-10-32	10A	12A	4mA	2500:1	customized	0.2%
P8S-20-12	20A	24A	20mA	1000:1	customized	0.2%
P8S-20-22	20A	24A	10mA	2000:1	customized	0.2%
P8S-V5-12	5A	6A	50mV	1000:1	customized	0.2%
P8S-V5-22	5A	6A	500mV	1000:1	customized	0.2%
P8S-V5-32	5A	6A	1V	1000:1	customized	0.2%
P8S-V10-12	10A	12A	100mV	1000:1	customized	0.2%
P8S-V10-22	10A	12A	1V	1000:1	customized	0.2%
P8S-V10-32	10A	12A	5V	1000:1	customized	0.2%

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