

Q13

10A HIGH SENSITIVITY 0.1% PERMALLOY CORE CT AC CURRENT CLAMP

The Q13 split core current probe is a high accuracy mini probe for measurements to 120A AC. This current clamp probe uses a special magnetic core to provide higher accuracy 0.1% and lower phase shift, the frequency range is 10Hz to 200kHz, ratio 1000:1, 2000:1 or 2500:1 etc. It can output 1mA/A, 1mV/A or 10mV/A etc. The Q13 Series clamp current probe is an excellent probe to be used in power and low level current measurement applications. This model Q13 current probe clamp has been used for power analyzer, energy meter calibrator, Oscilloscopes etc high precision instruments.

Features

1. UL, CE, CNAS mark;
2. Small, compact size;
3. 1mA/A AC output signals;
4. 10Hz to 200kHz response;
5. High content nickel metal core;
6. Harmonics measurement function;
7. Measurement range of 1mA to 120A AC;
8. Low phase shift for power measurement;
9. Improved ergonomic design and easy operation;
10. Designed to EN 61010, 600V CAT III safety standard;
11. Designed for DMMs, loggers, recorders and oscilloscopes;
12. Jaw opening accommodates conductors up to 13mm diameter;



Application

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

Parameter

Electrical parameters	
Ratio	1000: 1, 2000:1 or 2500:1 (customized)
Accuracy class	0.1%, 0.2%
Primary current	0 - 5A AC, 0 - 10A AC, 0 - 100A AC
Secondary current	0 - 5mA AC , 0 - 10mA AC , 0 - 100mA AC (customized)
Max. Cont. Input current	120A
Load capacity	≤20Ω, Standard 4Ω
Over voltage category	CAT III 600V
Output signal (AC current)	100mA AC at nominal input current
Output signal (AC voltage)	100mV,1V AC at nominal input current
Signal ratio	1mA/A, 1mV/A, 10mV/A, 100mV/A
Frequency range	40Hz-200KHz
Dielectric strength	3KV 50Hz/60Hz at 1 minute
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	BNC, 4mm banana, Audio plug,customized
Mechanical parameters	
Dimensions (L x W x H) (mm)	45 x 160 x 25
Weight (g)	300
Holding wire diameter (mm)	φ13
Max. jaw opening (mm)	13
Color	Black
Material	PC+ABS+Polycarbonate, UL94 V0

Selection Guide

Model	Rate Current	Max Current	Secondary	Coil Ratio	Burden Resistance	Accuracy
Q13-5-1	5A	6A	5mA	1000:1	customized	0.1%
Q13-5-2	5A	6A	2.5mA	2000:1	customized	0.1%
Q13-5-3	5A	6A	2mA	2500:1	customized	0.1%
Q13-10-1	10A	12A	10mA	1000:1	customized	0.1%
Q13-10-2	10A	12A	5mA	2000:1	customized	0.1%
Q13-10-3	10A	12A	4mA	2500:1	customized	0.1%
Q13-20-1	20A	24A	20mA	1000:1	customized	0.1%
Q13-20-2	20A	24A	10mA	2000:1	customized	0.1%
Q13-100-1	100A	120A	100mA	1000:1	customized	0.1%
Q13-100-2	100A	120A	50mA	2000:1	customized	0.1%
Q13-100-3	100A	120A	40mA	2500:1	customized	0.1%
Q13-V5-1	5A	50A	50mV	1000:1	customized	0.1%
Q13-V5-2	5A	6A	500mV	1000:1	customized	0.1%
Q13-V5-3	5A	6A	1V	1000:1	customized	0.1%
Q13-V10-1	10A	50A	100mV	1000:1	customized	0.1%
Q13-V10-2	10A	12A	1V	1000:1	customized	0.1%
Q13-V10-3	10A	12A	5V	1000:1	customized	0.1%
Q13-V100-1	100A	120A	100mV	1000:1	customized	0.1%
Q13-V100-2	100A	120A	1V	1000:1	customized	0.1%
Q13-V100-3	100A	120A	5V	1000:1	customized	0.1%
Q13-5-12	5A	6A	5mA	1000:1	customized	0.2%
Q13-5-22	5A	6A	2.5mA	2000:1	customized	0.2%
Q13-5-32	5A	6A	2mA	2500:1	customized	0.2%
Q13-10-12	10A	12A	10mA	1000:1	customized	0.2%
Q13-10-22	10A	12A	5mA	2000:1	customized	0.2%
Q13-10-32	10A	12A	4mA	2500:1	customized	0.2%
Q13-20-12	20A	24A	20mA	1000:1	customized	0.2%
Q13-20-22	20A	24A	10mA	2000:1	customized	0.2%
Q13-100-12	100A	120A	100mA	1000:1	customized	0.2%
Q13-100-22	100A	120A	50mA	2000:1	customized	0.2%
Q13-100-32	100A	120A	40mA	2500:1	customized	0.2%
Q13-V5-12	5A	50A	50mV	1000:1	customized	0.2%
Q13-V5-22	5A	6A	500mV	1000:1	customized	0.2%
Q13-V5-32	5A	6A	1V	1000:1	customized	0.2%
Q13-V10-12	10A	50A	100mV	1000:1	customized	0.2%
Q13-V10-22	10A	12A	1V	1000:1	customized	0.2%
Q13-V10-32	10A	12A	5V	1000:1	customized	0.2%
Q13-V100-12	100A	120A	100mV	1000:1	customized	0.2%
Q13-V100-22	100A	120A	1V	1000:1	customized	0.2%
Q13-V100-32	100A	120A	5V	1000:1	customized	0.2%