

Q8

5A HIGH PERFORMANCE PERMALLOY CLAMP ON AC CURRENT SENSOR

The model Q8 copper wire clamp-on ac current sensor is suitable for 5A, 10A cable online measurement, the user friendly shape make It easily clamp onto cables. This Q8 is one high quality core current clamp, ratio 1000:1 or 2000:1, frequency from 40Hz to 2kHz, small jaw 8mm, compact design, according to EN 61010-2-032, 600V CAT III, IEC61869, IEC60044-1 standard strictly. The clamp type current sensor is also called current clamp, current probe or current transformer clamp, widely used in power instrument measurement, recorder & energy meter tester etc.

Features

1. UL, CE, CNAS mark;
2. Installation: clamp type design;
3. Holding wire diameter: $\phi 8\text{mm}$;
4. Leakage current measurement;
5. 2-63th harmonic measurement;
6. Frequency 40Hz-2KHz Bandwidth;
7. Measurement range of 1mA to 12A AC;
8. High content nickel metal permalloy core;
9. Conforms to EN 61010-2-032, 600V CAT III;
10. High precision 0.2% for current measurement;
11. Improved ergonomic design & easy operation;
12. Can be customized 4mm banana/BNC connector;
13. Low phase shift less than 15' for power measurement;
14. Designed for DMMs, oscilloscopes, recorders, harmonic meters etc.;



Application

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

Parameter

Electrical parameters	
Ratio	2000:1 or 1000:1 (customized)
Accuracy class	0.2%, 0.5%
Phase shift	<15'
Primary current	0 - 5A, 0 - 10A AC
Secondary current	0 - 5mA, 0 - 10mA AC (customized)
Secondary voltage	0-0.1V AC, 0-0.5V AC, 0-1V AC, 0-5V AC
Max. Cont. Input current	20A
Load capacity	≤10Ω, 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
Frequency range	40Hz-2KHz
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)	42.6×122.5×23
Weight (g)	225
Holding wire diameter (mm)	φ8
Max. jaw opening (mm)	8
Color	Grey
Material	PC+ABS+Polycarbonate, UL94 V0

Selection Guide

Model	Rate Current	Max Current	Secondary Current	Coil Ratio	Burden Resistance	Accuracy
Q8-5	5A	6A	2mA	2500:1	customized	0.2%
Q8-10	10A	12A	4mA	2500:1	customized	0.2%
Q8-20	20A	24A	8mA	2500:1	customized	0.2%
Q8-5-1	5A	6A	5mA	1000:1	customized	0.2%
Q8-10-1	10A	12A	10mA	1000:1	customized	0.2%
Q8-20-1	20A	24A	20mA	1000:1	customized	0.2%
Q8-5-2	5A	6A	2.5mA	2000:1	customized	0.2%
Q8-10-2	10A	12A	5mA	2000:1	customized	0.2%
Q8-20-2	20A	24A	10mA	2000:1	customized	0.2%
Q8V1-5	5A	6A	50mV	2000:1	customized	0.2%
Q8V2-10	10A	12A	100mV	2000:1	customized	0.2%
Q8V3-20	20A	24A	200mV	2000:1	customized	0.2%
Q8V1-5-1	5A	6A	0.5V	2000:1	customized	0.2%
Q8V2-10-1	10A	12A	1V	2000:1	customized	0.2%
Q8V3-20-1	20A	24A	2V	2000:1	customized	0.2%