

Q8A2

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

The model Q8A2 permalloy core ac current clamp ct with high accuracy up to 0.1% has been designed for use with energy meter tester, multimeters, recorders, power analyzers, safety testers etc. It has low phase shift for power measurement, greatly suitable for electric energy meter calibrator and oscilloscope. This Q8A2 clamp ct can convert 0 - 10A AC current to 0 - 10mA AC current with real shape, max 20A measurement, but with harmonic measurement function. It is suitable for leakage current measurement in the field.

Application

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



Features

1. UL, CE, CNAS mark;
2. Holding wire diameter: $\phi 8\text{mm}$;
3. Frequency 10Hz-2MHz Bandwidth;
4. Conforms to EN 61010, 600V CAT III;
5. High times harmonic measurement;
6. Measurement range of 1mA to 20A AC;
7. High content nickel metal permalloy core;
8. Low phase shift for power measurement;
9. Min 1mA for leakage current measurement;
10. High precision 0.1% for current measurement;
11. Improved ergonomic design & easy operation;
12. Designed for DMMs, recorders, oscilloscopes, power meters etc.;

Parameters

Electrical parameters	
Ratio	1000: 1, 2000:1 or 2500:1 (customized)
Accuracy	0.1 %,0.2%
Primary current	0 - 5A AC, 0 - 10A AC, 0 - 20A AC
Secondary current	0 - 10mA AC or 0 - 100mV AC (customized)
Max. Cont. Input current	6A, 12A, 24A
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 100mV AC at nominal input current
Signal ratio	1mA/A, 1mV/A, 10mV/A, 100mV/A
Frequency range	10Hz-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)	45x158x25
Weight (g)	250
Holding wire diameter (mm)	φ8
Max. jaw opening (mm)	8
Color	Black
Material	PC+ABS+Polycarbonate, UL94 V0

Selection guide

Model	Rate Current	Max Current	Secondary	Coil Ratio	Burden Resistance	Accuracy
Q8A2-1-1	1A	1.2A	1mA	1000:1	customized	0.1%
Q8A2-1-2	1A	1.2A	0.5mA	2000:1	customized	0.1%

Model	Rate Current	Max Current	Secondary	Coil Ratio	Burden Resistance	Accuracy
Q8A2-5-1	5A	6A	5mA	1000:1	customized	0.1%
Q8A2-5-2	5A	6A	2.5mA	2000:1	customized	0.1%
Q8A2-5-3	5A	6A	2mA	2500:1	customized	0.1%
Q8A2-10-1	10A	12A	10mA	1000:1	customized	0.1%
Q8A2-10-2	10A	12A	5mA	2000:1	customized	0.1%
Q8A2-10-3	10A	12A	4mA	2500:1	customized	0.1%
Q8A2-20-1	20A	24A	20mA	1000:1	customized	0.1%
Q8A2-20-2	20A	24A	10mA	2000:1	customized	0.1%
Q8A2-V5-1	5A	6A	50mV	1000:1	customized	0.1%
Q8A2-V5-2	5A	6A	500mV	1000:1	customized	0.1%
Q8A2-V5-3	5A	6A	1V	1000:1	customized	0.1%
Q8A2-V10-1	10A	12A	100mV	1000:1	customized	0.1%
Q8A2-V10-2	10A	12A	1V	1000:1	customized	0.1%
Q8A2-V10-3	10A	12A	5V	1000:1	customized	0.1%
Q8A2-1-12	1A	1.2A	1mA	1000:1	customized	0.2%
Q8A2-1-22	1A	1.2A	0.5mA	2000:1	customized	0.2%
Q8A2-5-12	5A	6A	5mA	1000:1	customized	0.2%
Q8A2-5-22	5A	6A	2.5mA	2000:1	customized	0.2%
Q8A2-10-12	10A	12A	10mA	1000:1	customized	0.2%
Q8A2-10-22	10A	12A	5mA	2000:1	customized	0.2%
Q8A2-10-32	10A	12A	4mA	2500:1	customized	0.2%
Q8A2-20-12	20A	24A	20mA	1000:1	customized	0.2%
Q8A2-20-22	20A	24A	10mA	2000:1	customized	0.2%
Q8A2-V5-12	5A	6A	50mV	1000:1	customized	0.2%
Q8A2-V5-22	5A	6A	500mV	1000:1	customized	0.2%
Q8A2-V5-32	5A	6A	1V	1000:1	customized	0.2%
Q8A2-V10-12	10A	12A	100mV	1000:1	customized	0.2%
Q8A2-V10-22	10A	12A	1V	1000:1	customized	0.2%
Q8A2-V10-32	10A	12A	5V	1000:1	customized	0.2%

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