

XQ20

HIGH PRECISION 200A AC MINI SPLIT CORE CLAMP ON CURRENT SENSOR

The model XQ20 clamp on current sensor is suitable for 200A cable online measurement, the user friendly shape make it easily clamp onto cables or bus bars, no need to interrupt the power supply and disconnect the circuit in testing, easy to carry and especially suitable for on-site online testing. It output 0-200mA or 0-100mA AC signal for measuring and analyzing system. This XQ20 current sensor can customized two stall 10A/100A or 20A/200A, 1V or 2V output. It have been used many in power quality analyzer manufacturers, high reliability and accuracy 0.1%.

Features

1. UL, CE, CNAS mark;
2. Small, compact size;
3. 10Hz to 200kHz response;
4. Installation: clamp type design;
5. Holding wire diameter: $\phi 20\text{mm}$;
6. Measurement range of 1mA to 240A AC;
7. Low phase shift for power measurement;
8. High content nickel metal permalloy core;
9. Improved ergonomic design and easy operation;
10. 1mV/A AC, 10mV/A AC or 1mA/A AC output signals;
11. Designed to EN 61010, 600V CAT III safety standard;
12. Designed for DMMs, PQA, recorders and oscilloscopes;
13. Suitable for 10A, 20A, 100A, 200A cable online measurement;



Application

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

Parameters

Electrical parameters	
Ratio	1000: 1, 2000:1 or 2500:1 (customized)
Accuracy class	0.1%, 0.2%
Primary current	0 - 100A AC, 0 - 200A AC
Secondary current	0 - 100mA AC, 0 - 200mA AC (customized)
Max. Cont. Input current	120A, 240A
Load capacity	≤20Ω, Standard 4Ω
Over voltage category	CAT III 600V
Output signal (AC current)	From 0 to 200mA AC at nominal input current
Output signal (AC voltage)	From 0 to 5V 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 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	BNC, 4mm banana, Audio plug, customized
Mechanical parameters	
Dimensions (L x W x H) (mm)	52.5 x 137.5 x 28
Weight (g)	400
Holding wire diameter (mm)	φ20
Max. jaw opening (mm)	20
Jaw color	Red, yellow, blue, green, black
Material	PC+ABS+Polycarbonate, UL94 V0

Selection guide

Model	Rate Current	Max Current	Secondary	Coil Ratio	Burden Resistance	Accuracy
XQ20-10-1	10A	12A	10mA	1000:1	customized	0.1%
XQ20-10-2	10A	12A	5mA	2000:1	customized	0.1%
XQ20-10-3	10A	12A	4mA	2500:1	customized	0.1%
XQ20-20-1	20A	24A	20mA	1000:1	customized	0.1%
XQ20-20-2	20A	24A	10mA	2000:1	customized	0.1%
XQ20-20-3	20A	24A	8mA	2500:1	customized	0.1%

Model	Rate Current	Max Current	Secondary	Coil Ratio	Burden Resistance	Accuracy
XQ20-100-1	100A	120A	100mA	1000:1	customized	0.1%
XQ20-100-2	100A	120A	50mA	2000:1	customized	0.1%
XQ20-100-3	100A	120A	40mA	2500:1	customized	0.1%
XQ20-200-1	200A	240A	200mA	1000:1	customized	0.1%
XQ20-200-2	200A	240A	100mA	2000:1	customized	0.1%
XQ20-200-3	200A	240A	80mA	2500:1	customized	0.1%
XQ20-V10-1	10A	50A	100mV	1000:1	customized	0.1%
XQ20-V10-2	10A	12A	1V	1000:1	customized	0.1%
XQ20-V10-3	10A	12A	5V	1000:1	customized	0.1%
XQ20-V20-1	20A	50A	200mV	1000:1	customized	0.1%
XQ20-V20-2	20A	24A	2V	1000:1	customized	0.1%
XQ20-V20-3	20A	24A	5V	1000:1	customized	0.1%
XQ20-V100-1	100A	120A	100mV	1000:1	customized	0.1%
XQ20-V100-2	100A	120A	1V	1000:1	customized	0.1%
XQ20-V100-3	100A	120A	5V	1000:1	customized	0.1%
XQ20-V200-1	200A	240A	200mV	1000:1	customized	0.1%
XQ20-V200-2	200A	240A	2V	1000:1	customized	0.1%
XQ20-V200-3	200A	240A	5V	1000:1	customized	0.1%
XQ20-5-12	5A	6A	5mA	1000:1	customized	0.2%
XQ20-5-22	5A	6A	2.5mA	2000:1	customized	0.2%
XQ20-5-32	5A	6A	2mA	2500:1	customized	0.2%
XQ20-10-12	10A	12A	10mA	1000:1	customized	0.2%
XQ20-10-22	10A	12A	5mA	2000:1	customized	0.2%
XQ20-10-32	10A	12A	4mA	2500:1	customized	0.2%
XQ20-20-12	20A	24A	20mA	1000:1	customized	0.2%
XQ20-20-22	20A	24A	10mA	2000:1	customized	0.2%
XQ20-20-23	20A	24A	8mA	2500:1	customized	0.2%
XQ20-100-12	100A	120A	100mA	1000:1	customized	0.2%
XQ20-100-22	100A	120A	50mA	2000:1	customized	0.2%
XQ20-100-32	100A	120A	40mA	2500:1	customized	0.2%
XQ20-V5-12	5A	50A	50mV	1000:1	customized	0.2%
XQ20-V5-22	5A	6A	500mV	1000:1	customized	0.2%
XQ20-V5-32	5A	6A	1V	1000:1	customized	0.2%
XQ20-V10-12	10A	50A	100mV	1000:1	customized	0.2%
XQ20-V10-22	10A	12A	1V	1000:1	customized	0.2%
XQ20-V10-32	10A	12A	5V	1000:1	customized	0.2%
XQ20-V20-12	20A	50A	200mV	1000:1	customized	0.2%
XQ20-V20-22	20A	24A	2V	1000:1	customized	0.2%
XQ20-V20-32	20A	24A	5V	1000:1	customized	0.2%
XQ20-V100-12	100A	120A	100mV	1000:1	customized	0.2%

Model	Rate Current	Max Current	Secondary	Coil Ratio	Burden Resistance	Accuracy
XQ20-V100-22	100A	120A	1V	1000:1	customized	0.2%
XQ20-V100-32	100A	120A	5V	1000:1	customized	0.2%
XQ20-V200-12	200A	240A	200mV	1000:1	customized	0.2%
XQ20-V200-22	200A	240A	2V	1000:1	customized	0.2%
XQ20-V200-32	200A	240A	5V	1000:1	customized	0.2%
XQ20-V100-10	10/100A	12/120A	1V	1000:1	customized	0.1%
XQ20-V200-20	20/200A	24/240A	2V	1000:1	customized	0.1%

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