

XQ13

100a High Performance Ac Micro Amp Clamp On Current Probe

The model XQ13 100A clamp current probe is suitable for 0A-120A cable online measurement, it belongs to high performance transducer field. Up to 0.1% accuracy class, this current probe clamp is suitable for most oscilloscopes and multimeters. Current signal can be measured directly. Suitable for accurate measurement of AC current using the permalloy core material. Frequency range 10Hz-2MHz, with standard 2.5 meter cable with D01 connector, 4mm banana or BNC connector. According to EN 61010-1, EN 61010-2-032, IEC60044-1 Standard.

Features

1. UL, CE, CNAS mark;
2. Small, compact size;
3. 10Hz to 2MHz response;
4. High content nickel metal core;
5. Installation: clamp type design;
6. Holding wire diameter: $\phi 13\text{mm}$;
7. 1mA/A or 1mV/A AC output signals;
8. Measurement range of 1mA to 120A AC;
9. Low phase shift for power measurement;
10. Improved ergonomic design and easy operation;
11. Designed to EN 61010, 600V CAT III safety standard;
12. Designed for DMMs, loggers, recorders and oscilloscopes;
13. Suitable for 5A, 10A, 20A, 50A, 100A cable online measurement;



Application

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

Parameters

Electrical parameters	
Ratio	1000: 1, 2000:1 or 2500:1 (customized)
Accuracy class	0.1%, 0.2%
Primary current	0 - 100A AC
Secondary current	0 - 100mA AC (customized)
Max. Cont. Input current	120A
Load capacity	≤20Ω , Standard 4Ω
Over voltage category	CAT III 600V
Output signal (AC current)	From 0 to 100mA 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-2MHz
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)	48 x 179 x 27
Weight (g)	325
Holding wire diameter (mm)	φ13
Max. jaw opening (mm)	13
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
XQ13-5-1	5A	6A	5mA	1000:1	customized	0.1%
XQ13-5-2	5A	6A	2.5mA	2000:1	customized	0.1%
XQ13-5-3	5A	6A	2mA	2500:1	customized	0.1%

Model	Rate Current	Max Current	Secondary	Coil Ratio	Burden Resistance	Accuracy
XQ13-10-1	10A	12A	10mA	1000:1	customized	0.1%
XQ13-10-2	10A	12A	5mA	2000:1	customized	0.1%
XQ13-10-3	10A	12A	4mA	2500:1	customized	0.1%
XQ13-20-1	20A	24A	20mA	1000:1	customized	0.1%
XQ13-20-2	20A	24A	10mA	2000:1	customized	0.1%
XQ13-100-1	100A	120A	100mA	1000:1	customized	0.1%
XQ13-100-2	100A	120A	50mA	2000:1	customized	0.1%
XQ13-100-3	100A	120A	40mA	2500:1	customized	0.1%
XQ13-V5-1	5A	50A	50mV	1000:1	customized	0.1%
XQ13-V5-2	5A	6A	500mV	1000:1	customized	0.1%
XQ13-V5-3	5A	6A	1V	1000:1	customized	0.1%
XQ13-V10-1	10A	50A	100mV	1000:1	customized	0.1%
XQ13-V10-2	10A	12A	1V	1000:1	customized	0.1%
XQ13-V10-3	10A	12A	5V	1000:1	customized	0.1%
XQ13-V100-1	100A	120A	100mV	1000:1	customized	0.1%
XQ13-V100-2	100A	120A	1V	1000:1	customized	0.1%
XQ13-V100-3	100A	120A	5V	1000:1	customized	0.1%
XQ13-5-12	5A	6A	5mA	1000:1	customized	0.2%
XQ13-5-22	5A	6A	2.5mA	2000:1	customized	0.2%
XQ13-5-32	5A	6A	2mA	2500:1	customized	0.2%
XQ13-10-12	10A	12A	10mA	1000:1	customized	0.2%
XQ13-10-22	10A	12A	5mA	2000:1	customized	0.2%
XQ13-10-32	10A	12A	4mA	2500:1	customized	0.2%
XQ13-20-12	20A	24A	20mA	1000:1	customized	0.2%
XQ13-20-22	20A	24A	10mA	2000:1	customized	0.2%
XQ13-100-12	100A	120A	100mA	1000:1	customized	0.2%
XQ13-100-22	100A	120A	50mA	2000:1	customized	0.2%
XQ13-100-32	100A	120A	40mA	2500:1	customized	0.2%
XQ13-V5-12	5A	50A	50mV	1000:1	customized	0.2%
XQ13-V5-22	5A	6A	500mV	1000:1	customized	0.2%
XQ13-V5-32	5A	6A	1V	1000:1	customized	0.2%
XQ13-V10-12	10A	50A	100mV	1000:1	customized	0.2%
XQ13-V10-22	10A	12A	1V	1000:1	customized	0.2%
XQ13-V10-32	10A	12A	5V	1000:1	customized	0.2%
XQ13-V100-12	100A	120A	100mV	1000:1	customized	0.2%
XQ13-V100-22	100A	120A	1V	1000:1	customized	0.2%
XQ13-V100-32	100A	120A	5V	1000:1	customized	0.2%
Notes: Can be customized current probe according to user requirements!						