

Q150

150mm Bus Bar And Cable Ac Split Core Ct Current Probe Clamp

The model Q150 current probe clamp can be used in large current situation and cooperate to cable fault analysis and cable identification device, used for cable test work. It can even measure up to 3000A AC large current and output 0-5A AC current for other measuring or analyzing system. It can provide 0.5% accuracy class result, ratio 1000/5A, 2000/5A or 3000/5A. Suitable for power plants, factoris and mines to measure power load. The Q150 split core current clamp have large jaw opening designed, high-accuracy, high-sensitivity, versatility, and low phase shift. It is an excellent choice for use in a wide range of power measurement applications including load surveys and demand metering.

Features

1. UL, CE CNAS mark;
2. Large jaw opening designed;
3. Holding wire diameter: $\phi 150\text{mm}$;
4. Frequency 40Hz-2KHz Bandwidth;
5. Conforms to EN 61010, 600V CAT III;
6. Measurement range of 1A to 3600A AC;
7. Precision 0.5% for current measurement;
8. Low phase shift for power measurement;
9. Industrial design & beautiful appearance;
10. Transformation ratio: 1000:5, 2000:5, 3000:5
11. Improved ergonomic design & easy operation;
12. Output: 5mA AC/A AC, 2.5mA AC/A AC, 1.666mA AC/A AC
13. Nominal range: 1 to 1000AAC, 1 to 2000AAC, 1 to 3000AAC
14. When less than 1A output, load capacity $\leq 20\Omega$; When 5A output, load 2.5VA;
15. Designed for cable fault analysis, recorders, loggers, power and harmonic meters;



Application

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|------------------------|-----------------------------|---|
| 1. HVAC; | 7. Cable fault analysis; | 13. Industrial maintenance; |
| 2. Power meter; | 8. Electrical Laboratory; | 14. Power quality monitoring; |
| 3. Energy meter; | 9. Large industrial loads; | 15. Power and harmonic meters; |
| 4. Oscilloscopes; | 10. Power quality analyzer; | 16. Measuring around cable bundles; |
| 5. Electrical utility; | 11. Data logging/recording; | 17. Clamp type ground resistance tester; |
| 6. Plant maintenance; | 12. Power load monitoring; | 18. Electric energy meter calibrator on site; |

Parameter

Electrical parameters	
Ratio	600:1, 1000:1, 2000:1, 3000:1 (customized)
Accuracy class	0.2%, 0.5%, 1%
Primary current	0 - 1000A, 0 - 2000A, 0 - 3000A AC
Secondary current	0 - 1A, 0 - 5A AC (customized)
Max. Cont. Input current	3600A
Load capacity	≤2.5VA or 20Ω
Over voltage category	CAT III 600 V
Output signal (AC current)	500mA, 1A, 5A AC at nominal input current
Output signal (AC voltage)	333mV, 500mV, 1V, 5V AC at nominal input current
Frequency range	40Hz-2KHz
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), 5m, customized
Connector	BNC, 4mm banana, signal cable(2 cores), customized
Mechanical parameters	
Dimensions (L x W x H) (mm)	229x364x 44
Weight (g)	1700
Holding wire diameter (mm)	φ150
Max. jaw opening (mm)	150
Jaw color	White
Material	PC+ABS, UL94 V0

Selection Guide

Model	Rate Current	Max Current	Secondary Current	Coil Ratio	Burden Resistance	Accuracy
Q150A5-1000	1000A	1200A	5A	200:1	2.5VA	0.5%
Q150A5-2000	2000A	2400A	5A	400:1	2.5VA	0.5%
Q150A5-3000	3000A	3600A	5A	600:1	2.5VA	0.5%
Q150A1-1000	1000A	1200A	1A	1000:1	2.5VA	0.5%
Q150A1-2000	2000A	2400A	1A	2000:1	2.5VA	0.5%
Q150A1-3000	3000A	3600A	1A	3000:1	2.5VA	0.5%
Q150A2-500	500A	600A	250mA	2000:1	customized	0.5%
Q150A2-1000	1000A	1200A	500mA	2000:1	customized	0.5%
Q150A3-500	500A	600A	200mA	2500:1	customized	0.5%
Q150A3-1000	1000A	1200A	400mA	2500:1	customized	0.5%
Q150A3-2000	2000A	2400A	800mA	2500:1	customized	0.5%
Q150A4-250	250A	300A	250mA	1000:1	customized	0.5%
Q150A4-500	500A	600A	500mA	1000:1	customized	0.5%
Q150A4-1000	1000A	1200A	250mA	4000:1	customized	0.5%
Q150A4-2000	2000A	2400A	500mA	4000:1	customized	0.5%
Q150V1-1000	1000A	1200A	1V	2000:1	customized	0.5%
Q150V1-2000	2000A	2400A	2V	2000:1	customized	0.5%
Q150V1-3000	3000A	3600A	3V	2000:1	customized	0.5%

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