

Q70

HIGH ACCURACY OSCILLOSCOPE MEASURING CLAMP ON CURRENT PROBE

The model Q70 oscilloscope current probe, it is suitable for 0-1000A current measurement, both cable and copper bus bar online measurement. Its core is made by Permalloy, the influence of external magnetic field is very small, which ensures the high accuracy, high stability and high reliability of uninterrupted measurement long time. The Q70 oscilloscope current clamp could output current and voltage signal, the range, transformation ratio can be customized, with BNC connector. Conforms to EN 61010-1, EN 61010-2-032, IEC61869-2 & IEC60044-1 Standard.

Features

1. UL, CE CNAS mark;
2. High content permalloy core;
3. Copper bus bar measurement;
4. Frequency 10Hz-2MHz Bandwidth;
5. Conforms to EN 61010, 600V CAT III;
6. Holding wire diameter: $\phi 60\text{mm} \times 70\text{mm}$;
7. Measurement range of 1mA to 1000A AC;
8. Low phase shift for power measurement;
9. Industrial design & beautiful appearance;
10. High precision 0.1% for current measurement;
11. Improved ergonomic design & easy operation;
12. Designed for recorders, loggers, oscilloscopes, power and harmonic meters;



Application

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|----------------------------|-------------------------------|---|
| 1. Power meter; | 7. Earth resistance meter; | 13. Power and harmonic meters; |
| 2. Energy sub-meters; | 8. Data logging/recording; | 14. CT primary current detection; |
| 3. Digital multi-meter; | 9. Power quality analyzer; | 15. Multi-function energy meter; |
| 4. Cable fault analysis; | 10. Power load monitoring; | 16. Measuring around cable bundles; |
| 5. Oscilloscopes meter; | 11. Phase volt-ampere meter; | 17. Electric energy meter tester (on site); |
| 6. Large industrial loads; | 12. Power quality monitoring; | |

Parameters

Electrical parameters	
Ratio	200:1, 1000: 1 or 2000:1 (customized)
Accuracy class	0.2%, 0.5%, 1%
Primary current	0 - 1000A AC
Secondary current	0 - 1A AC , 0 - 5A AC (customized)
Max. Cont. Input current	1200A
Load capacity	≤2.5VA or 4Ω
Over voltage category	CAT III 600V
Output signal (AC current)	500mA,1A,5A AC at nominal input current
Output signal (AC voltage)	500mV,1V,5V AC at nominal input current
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), 5m or customized
Connector	BNC, 4mm banana, signal cable(2 cores),customized
Mechanical parameters	
Dimensions (L x W x H) (mm)	122 x 275 x 35.5
Weight (g)	720
Holding wire diameter (mm)	φ60 x 70
Max. jaw opening (mm)	60
Jaw color	White
Material	PC+ABS, UL94 V0

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

Selection guide

Model	Rate Current	Max Current	Secondary Current	Coil Ratio	Burden Resistance	Accuracy
Q70A5-200	200A	240A	5A	40:1	2.5VA	0.5%
Q70A5-300	300A	360A	5A	60:1	2.5VA	0.5%
Q70A5-400	400A	480A	5A	80:1	2.5VA	0.5%
Q70A5-500	500A	600A	5A	100:1	2.5VA	0.5%
Q70A5-600	600A	720A	5A	120:1	2.5VA	0.5%
Q70A5-800	800A	960A	5A	160:1	2.5VA	0.5%
Q70A5-1000	1000A	1200A	5A	200:1	2.5VA	0.5%
Q70A1-100	100A	120A	1A	100:1	customized	0.2%
Q70A1-200	200A	240A	1A	200:1	customized	0.2%
Q70A1-300	300A	360A	1A	300:1	customized	0.2%
Q70A1-400	400A	480A	1A	400:1	customized	0.2%
Q70A1-500	500A	600A	1A	500:1	customized	0.2%
Q70A1-600	600A	720A	1A	600:1	customized	0.2%
Q70A1-800	800A	960A	1A	800:1	customized	0.2%
Q70A1-1000	1000A	1200A	1A	1000:1	customized	0.2%
Q70A2-1000	1000A	1200A	500mA	2000:1	customized	0.2%
Q70A3-1000	1000A	1200A	400mA	2500:1	customized	0.2%
Q70A4-1000	1000A	1200A	250mA	4000:1	customized	0.2%
Q70V1-1000	1000A	1200A	1V	1000:1	customized	0.2%
Q70V2-1000	1000A	1200A	5V	1000:1	customized	0.2%
Q70V3-1000	1000A	1200A	10V	1000:1	customized	0.2%