

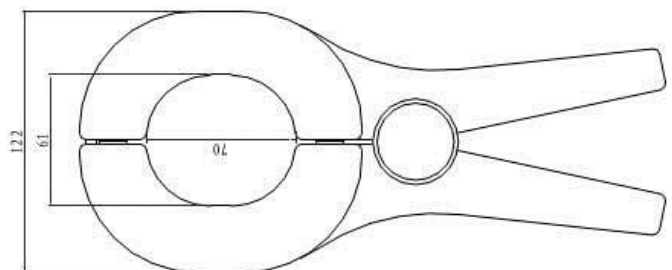
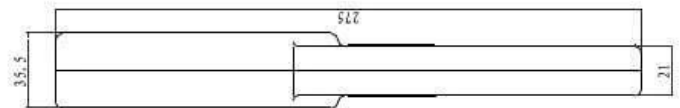
## Q70

### HIGH PRECISION 1000A CLAMP ON OSCILLOSCOPE 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 sensor could output current and voltage signal, the range, transformation ratio can be customized.

### Application

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



### Features

- |   |   |
|---|---|
| <ol style="list-style-type: none"> <li>1. UL, CE CNAS mark;</li> <li>3. Copper bus bar measurement ;</li> <li>5. Conforms to EN 61010, 600V CAT III;</li> <li>7. Industrial design &amp; beautiful appearance;</li> </ol> | <ol style="list-style-type: none"> <li>2. High content permalloy core;</li> <li>4. Frequency 40Hz-20kHz Bandwidth;</li> <li>6. Holding wire diameter: <math>\phi 60\text{mm} \times 70\text{mm}</math>;</li> <li>8. Low phase shift for power measurement;</li> </ol> |
|---|---|

9. Measurement range of 1mA to 1000A AC;
10. High precision 0.1% for current measurement;
11. Improved ergonomic design & easy operation;
12. Designed for recorders, loggers, oscilloscopes, power and harmonic meters;

## Parameters

Electrical parameters	
Ratio	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	40Hz-2000Hz
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, 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

## 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%