

P110

1000A Cable fault Analysis Clamp Current Transformer

The P110 is a high performance AC Clamp current probe with excellent transformation and low phase shift. The high quality magnetic permalloy core and uniform windings provide for accurate measurements up to 1000AAC/250AAC/600AAC. The "ring type" jaw permits good magnetic conduction and cable positionings. Provide excellent RMS capabilities and reliable signal reproduction.

It is well suited for power quality applications where high accuracy and low phase shift along with wide frequency from 40Hz to 2kHz are important. Measurement range is 1mA to 1200A.

The P110 is a general purpose 1000A AC current probe designed for use with DMMs, cable fault analysis and loggers instruments that have a current input. It has a 1000:1 ratio and output of 1mA per amp or 1mV per amp measured in the jaw. The P110 has an integral 2.5m or 5m lead terminated. The rounded jaw design on this probe makes it well-suited for cable fault analysis applications where high accuracy and low phase shift and wide frequency.

Applications

1. Cable Fault Analysis
2. Power quality analyzer(PQA)
3. power and harmonic meters
4. Measuring around cable bundles
5. Power load monitoring
6. Earth resistance meter
7. Large industrial loads



Features

1. Measurement range of 1mA to 1200A AC
2. Improved ergonomic design & easy operation
3. High content nickel metal permalloy core
4. Frequency 40-2kHz
5. Holding wire diameter: $\phi 110\text{mm}$
6. Conforms to EN 61010, 600V CAT III
7. Transformation ratio: 1000:1, 1000:5
8. Low phase shift for power measurement
9. Designed for DMMs, recorders, loggers, oscilloscopes, power and harmonic meters
10. UL, CE mark

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Parameters

Electrical parameters	
Ratio	1000: 1 or 2000:1 (customized)
Accuracy class	0.1%, 0.2%, 0.5%, 1%
Primary current	0 - 1000A AC
Secondary current	0 - 5A AC (customized)
Secondary voltage	0-10V AC (customized)
Max. Cont. Input current	1200A
Over voltage category	CAT III 600V
Output signal (AC current)	250mA, 500mA, 1A, 5A AC at nominal input current
Output signal (AC voltage)	1V, 5V, 10V AC at nominal input current
Frequency range	40Hz-2000Hz
Dielectric strength	3KV 50Hz/60Hz at 1 minute
Temperature range	-40°C to +55°C
Output	2.5 meter cable with D01 connector
Max. voltage not insulated conductors	600 V
Standard	EN 61010-1, EN 61010-2-032, IEC60044-1, IEC61869-2
Installation	clamp type
Output mode	lead output(2.5m, 5m or 10m)
Mechanical parameters	
Dimensions (L x W x H) (mm)	163 x 310 x 34
Weight (g)	900
Holding wire diameter (mm)	φ110
Max. jaw opening (mm)	110
Jaw color	Black
Material	PC+ABS, UL94 V0

Selection guide

Model	Rate Current	Max Current	Secondary Current	Coil Ratio	Burden Resistance	Accuracy
Q110-500	500A	600A	5A	100:1	2.5VA	0.50%
Q110-600	600A	720A	5A	120:1	2.5VA	0.50%
Q110-800	800A	960A	5A	160:1	2.5VA	0.50%
Q110-1000	1000A	1200A	5A	200:1	2.5VA	0.50%
Q1101-200	200A	240A	1A	200:1	customized	0.20%
Q1101-300	300A	360A	1A	300:1	customized	0.20%
Q1101-400	400A	480A	1A	400:1	customized	0.20%
Q1101-500	500A	600A	1A	500:1	customized	0.20%

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Q1101-600	600A	720A	1A	600:1	customized	0.20%
Q1101-800	800A	960A	1A	800:1	customized	0.20%
Q1101-1000	1000A	1200A	1A	1000:1	customized	0.10%
Q1102-500	500A	600A	500mA	1000:1	customized	0.10%
Q1102-600	600A	720A	500mA	1200:1	customized	0.10%
Q1102-800	800A	960A	500mA	1500:1	customized	0.10%
Q1102-1000	1000A	1200A	500mA	2000:1	customized	0.10%
Q1103-800	800A	960A	400mA	2000:1	customized	0.10%
Q1103-1000	1000A	1200A	400mA	2500:1	customized	0.10%
Q1104-250	250A	300A	250mA	1000:1	customized	0.10%
Q1104-500	500A	600A	250mA	2000:1	customized	0.10%
Q1104-1000	1000A	1200A	250mA	4000:1	customized	0.10%
Q1105-200	200A	240A	1V	1000:1	customized	0.10%
Q1105-300	300A	360A	1V	1000:1	customized	0.10%
Q1105-400	400A	480A	1V	1000:1	customized	0.10%
Q1105-500	500A	600A	1V	1000:1	customized	0.10%
Q1105-600	600A	720A	1V	1000:1	customized	0.10%
Q1105-800	800A	960A	1V	1000:1	customized	0.10%
Q1105-1000	1000A	1200A	1V	1000:1	customized	0.10%
Q1106-200	200A	240A	5V	1000:1	customized	0.10%
Q1106-300	300A	360A	5V	1000:1	customized	0.10%
Q1106-400	400A	480A	5V	1000:1	customized	0.10%
Q1106-500	500A	600A	5V	1000:1	customized	0.10%
Q1106-600	600A	720A	5V	1000:1	customized	0.10%
Q1106-800	800A	960A	5V	1000:1	customized	0.10%
Q1106-1000	1000A	1200A	5V	1000:1	customized	0.10%
Q1108-200	200A	240A	10V	1000:1	customized	0.10%
Q1108-300	300A	360A	10V	1000:1	customized	0.10%
Q1108-400	400A	480A	10V	1000:1	customized	0.10%
Q1108-500	500A	600A	10V	1000:1	customized	0.10%
Q1108-600	600A	720A	10V	1000:1	customized	0.10%
Q1108-800	800A	960A	10V	1000:1	customized	0.10%
Q1108-1000	1000A	1200A	10V	1000:1	customized	0.10%

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