

FR050HV High Voltage Clamp Current Sensor



I . Characteristic

FR050HV high voltage clamp current sensor is a portable clamp design using the latest CT technology. It is specially designed for online measurement of current, leakage current, high harmonic current, phase, electric energy, power, power factor, etc. of high and low voltage lines. No need to disconnect the line under test, safe, fast, high-precision, high-stability and uninterrupted detection. The sensor adopts an automatic opening and closing structure, and the jaws are pushed forward to open and clamp the conductor under test, and the jaws are pulled back to open and leave the conductor under test, and are used in conjunction with the insulating rod. For high-voltage line testing of 60kV and below.

FR050HV can be used with a variety of measuring instruments for measurement, and can also be connected to phase detection analyzers, industrial control devices, data recorders, oscilloscopes, harmonic analyzers, power quality analyzers, and high-precision digital multimeters. It is easy to use and easy to carry. Widely used in substations, power plants, industrial and mining enterprises, testing stations, electrical maintenance departments for current testing and field electrical work. The insulating rod has the characteristics of moisture resistance, high temperature resistance, impact resistance, bending resistance, high insulation, etc.

II . Technical Specification

Features	CT clamp structure
Features	Detection of current, leakage current, transformation ratio, higher harmonic current, phase, electrical energy, power, power factor, etc. of high and low voltage lines
Output method	Current sense output
Jaw size	Φ50mm
Secondary development	46*30mm

Display window	
Range	AC 0.0mA~1200A
Resolution	AC 0.1mA
Accuracy	±1.0%FS (50Hz/60Hz; 23℃±2℃) The wire is in the center of the jaw
Phase error	≤3°(50Hz/60Hz; 23℃±2℃)
Turns ratio	4000:1
Reference load	RL: 0~10A≤50Ω; 0~100A≤5Ω; 0~1200A≤0.5Ω
Quality	300g
Dimensions	Width, thickness and height 87*37*262mm
Output Interface	10cm long, open the upper and lower covers to connect
Electric field disturbance	When the external electric field 100A is close to 30mm, it is about 10mA
Wire position	The lead under test is in the center of the jaws
Current frequency	45Hz~65Hz (current frequency to be measured)
Line voltage	AC 60kV and below line test (the telescopic insulating rod should be fully opened)
Operating temperature	-25° C to +55° C
Medium strength	AC3700V/rms (between core and shell)
Current frequency	45Hz~65Hz (current frequency to be measured)

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