ES050HV High Voltage Clamp Current Sensor

Ⅰ. Product Introduction

FR050HV high voltage clamp current sensor is a portable clamp design using the latest CT technology. It is designed to measure the current, leakage current, high harmonic current, phase, electric energy, power, power factor of high and low voltage lines, etc. It is not necessary to disconnect the circuit under test. It is safe, fast, high-precision, and highly stable without interruption. The sensor adopts an automatic opening and closing structure. The front pushing jaw opens and clamps the measured wire, and the back pulling jaw opens to leave the measured wire, used with the insulating rod and for high voltage line test of 60KV and below.

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

II. Technical Specification

Features	CT clamp structure
Function	current, leakage current, transformation ratio, higher harmonic current, phase, electric power, power, power factor of the High and low voltage lines
output Method	Current sensing output
Jaw Size	Φ50mm
Secondary Development Display Window	46*30mm
Range	AC 0.0mA~1200A
Resolution	AC 0.1mA
Accuracy	±1.0%FS(50Hz/60Hz; 23 °C±2 °C) The wire is in the center of the jaw
Phase Error	≤3° (50Hz/60Hz;23 °C±2°C)
Turn Ratio	4000：1 (can be customized)
Reference Load	RL: 0~10A≤50Ω; 0~100A≤5Ω; 0~1200A≤0.5Ω
Weight	300g
Dimensions	L/T/H 87mmX 37mmx 262mm
Output Interface	10cm long, can be connected by opening the upper and lower covers
Electric field Interference	about 10mA when the external electric field 100A approaches 30mm

Wire position	The tested wire is at the center of the jaw
Current Frequency	45Hz~65Hz (measured current frequency)
Line Voltage	AC60kV and below, circuit test telescopic insulation poles should be fully opened
Working Temperature	-25°C~55 °C
Medium Strength	AC3700V/rms (between iron core and shell)

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