## FR050 Large Diameter Clamp Current Sensor





## **I. Product Introduction**

FR050 large diameter clamp current sensor is a high-precision AC current convertor. It adopts the latest CT technology and is designed with a large-diameter circular structure. It can be used for quick and easy free access. The compact size is easier to carry and use. Applicable to AC current, high harmonic current, phase, electric energy, power, power factor and other tests.

FR050 can be used with a variety of measuring instruments, such as: Field calibrator for watt-hour meter, harmonic analyzer, recorder, multi-function energy meter, oscilloscope, digital multimeter, cable identification, cable fault detector, double clamp grounding resistance Testers, double-clamp phase volt-ampere meters, etc., can measure and compare various electrical parameters under constant power. Widely used in substations, power plants, industrial and mining enterprises and testing stations, electrical maintenance departments for current detection and field electrical work.

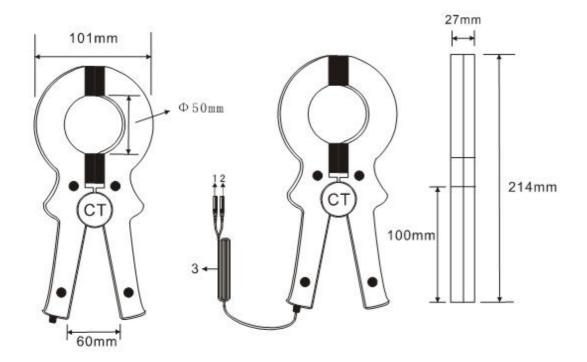
## II. Technical Specification

Features	Portable CT clamp structure, safe and convenient to use			
Jaw Size	Ф50mm			
Range	AC 0.0mA~1000A		Resolution: AC 0.1mA	Accuracy: ±
	0.2%FS(50Hz/60Hz; 23 °C±2 °C)			
Range	AC 0.0mA~1000A	Resolution: AC 0.1mA	Accuracy: $\pm 0.2\%$ FS(50Hz/60Hz; 23 °C $\pm 2$ °C)	Largest output current 1A
			Accuracy: $\pm 0.5\%$ FS(50Hz/60Hz; 23 °C $\pm 2$ °C)	Largest output current 5A
Phase Error	≤3° (50Hz/60Hz;23 °C±2°C)			
Turn Ratio	1000: 1 (can be customized)			
Reference Load	RL: 0~100mA≤300 \( \Omega \); 0~10A≤30 \( \Omega \); 0~1000A≤0.3 \( \Omega \)			
Weight	470g			
Dimensions	L/T/H 101mmX 27mmx 214mm			
Output Connector	3.5mm banana plug(Can be customized audio plug or BNC plug)			
Output Line Length	2m			
Output Method	Current sensing output			
External Material	ABS resin, flame retardant rating 94V0			
Line Voltage	600V AC (insulated wire) 30Vac (bare wire) test			
Working Temperature	-25°C~55 °C			
Insulation Resistance	100 M Ω @ 500Vdc			

Medium strength	AC3700V/rms (between iron core and shell)	
Frequency Characteristics	10Hz~100kHz	

## III. Installation Dimensions

- 1. Coil tap output
- 2. Coil tap output
- 3. sensor output leads (2m)





GuangZhou ZhengNeng Electronics Technology Co.

Address: 2F, No.15 Baoshu Road, Taihe, Baiyun District, Guangzhou, Guangdong, China

Toll-free call: 4000-1515-38

Tel: 86-20-36544172 Fax: 86-20-37319075

Post: 510540

WebSite: <a href="www.znele.com">www.znele.com</a>