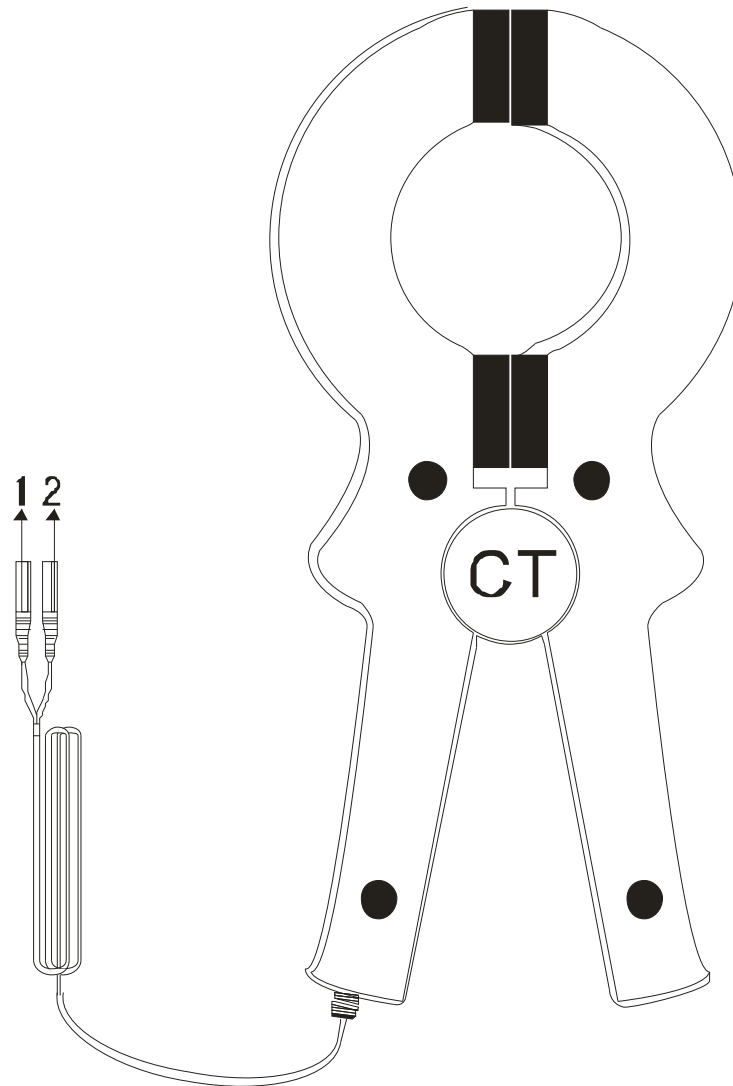


FR050 Clamp current sensor



I、 Introduction

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. It 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.

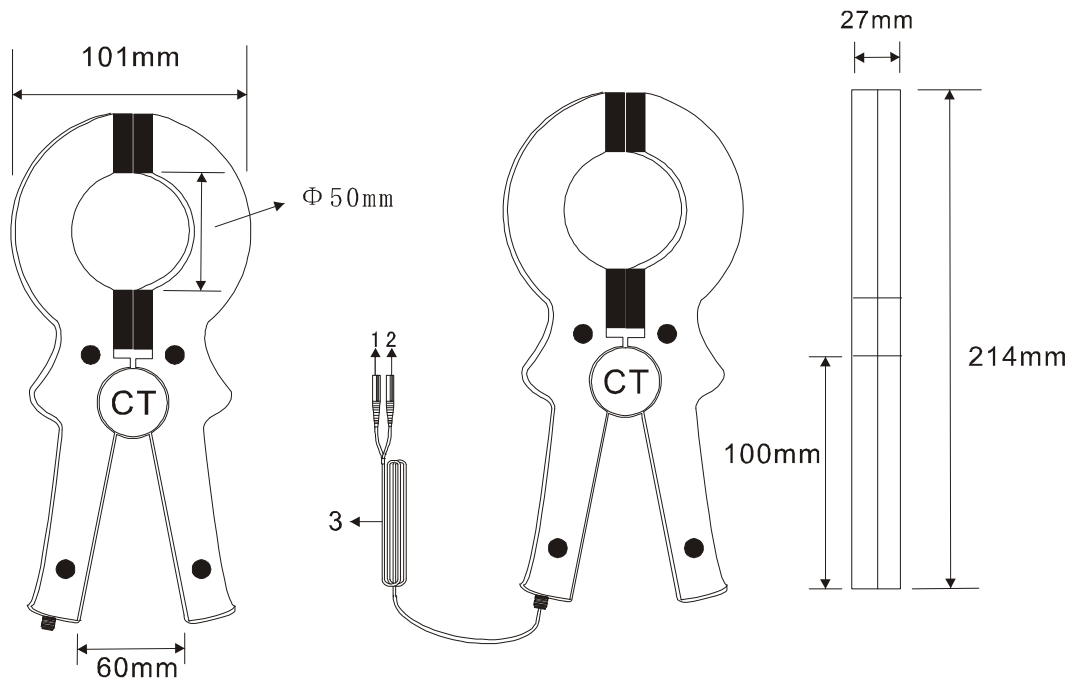
II、 Precautions

1. Before use, you must check whether the appearance is deformed, otherwise it will affect the test accuracy;
2. Before use, you must check whether the end face of the iron core is clean and can be wiped with a dry silk cloth (no alcohol or water).
3. It's forbidden to use whe the sensor is broken or disconnected.
4. The use of environmental requirements away from strong magnetic field, so as not to affect the test accuracy, the use of ambient temperature $-30^{\circ}\text{C} \sim +40^{\circ}\text{C}$, relative humidity should be less than 80%, is strictly prohibited in the wet and corrosive gas environment.
5. It is prohibited to disassemble and repair the sensor.

6. The core end must be kept clean and closed during use.
7. "⚠" safety sign, indicating that the input voltage or current should not exceed the marked value, this is to protect the internal circuit from damage.
8. Handle gently during use to prevent heavy objects from colliding to avoid affecting accuracy.
9. After use, it must be stored in a clean environment.

III、Specification Size

1. Dimensions



1. Coil Tap Output
2. Coil Tap Output
3. Sensor Output Lead (2m)

2. Specification Parameter

Features	Portable CT clamp structure, safe and convenient to use
Jaw Size	Φ50mm
Range	AC 0.0mA~1000A
Resolution	AC 0.1mA
Accuracy	±2.0%FS (50Hz/60Hz; 23°C ± 2°C)
Phase Error	≤3° (50Hz/60Hz; 23°C ± 2°C)
Turn Ratio	1000:1(can be customized)
Reference Load	RL: 0~100mA≤3kΩ; 0~10A≤30Ω; 0~1000A≤0.3Ω
Weight	471.1g
Dimensions	L/T/H 101mmX 27mmx 214mm
Output Connector	4mm Banana plug or Audio 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)
Current Frequency	45Hz~60Hz(measured current frequency)
Frequency Characteristics	10Hz~100kHz



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: www.znel.e.com