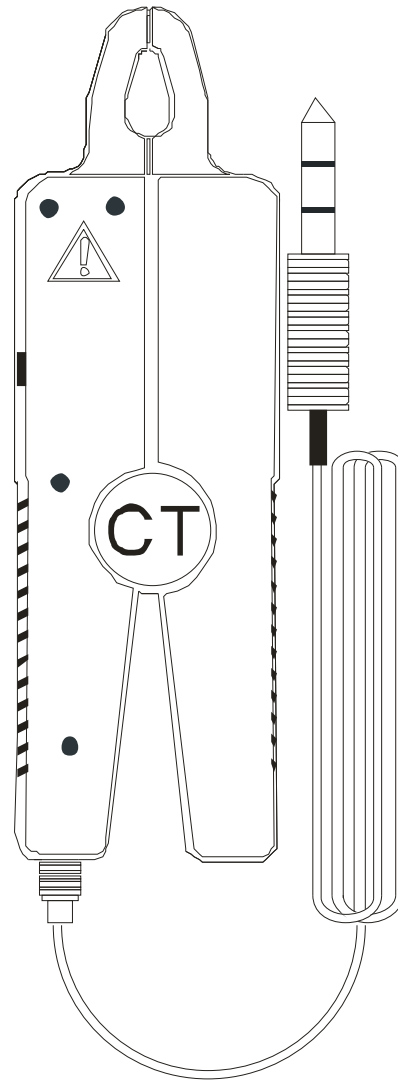


## FR008 High Precision Clamp Current Sensor



### I、 Brief Introduction

The clamp-type current sensor is a high-precision AC current transformer, adopt the clamp-shaped structure design. It can be quickly and easily accessed and used . The compact size is more portable and easier to use. Suitable for detection of AC current, leakage current, higher harmonic current, phase, electrical energy, power, power factor and other tests. It can be used with a variety of measuring instruments, such as: Watt-hour meter field calibrator, multi-function energy meter, oscilloscope, digital multimeter, cable identification, cable fault detector, double clamp grounding resistance tester, dual-clamp phase volt-ampere Tables, etc., can measure and compare various electrical parameters under the state of being uninterrupted. Widely used in substations, power plants, industrial and mining enterprises and testing stations, electrical maintenance departments for current detection and field electrical work.

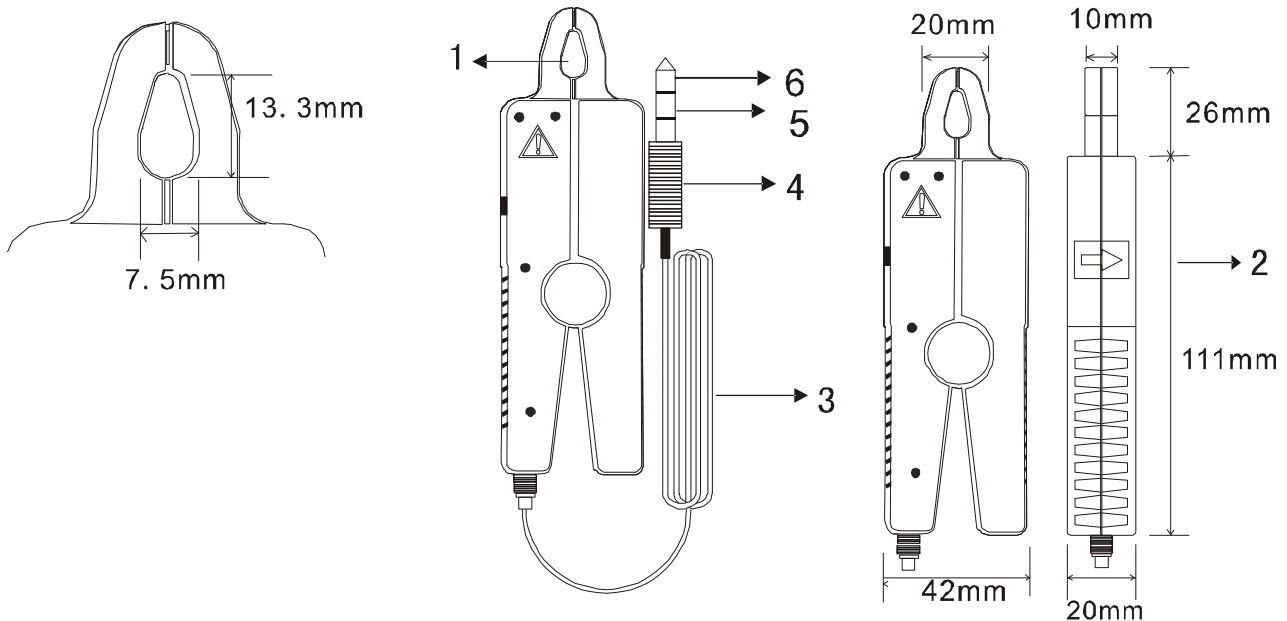
### II、 Precautions

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. External Dimensions



1. Clamp head
2. Direction mark identification (identify the same name when detecting phase)
3. Output leads
4. Sensor output plug (  $\phi$  3.5mm audio plug)
5. Coil tap
6. Coil tap

#### 2. Specification Parameter

<b>Features</b>	Portable CT clamp structure, safe and convenient to use
<b>Jaw Size</b>	$\Phi$ 7.5mm
<b>Range</b>	AC 0~30A
<b>Resolution</b>	AC 0.01mA
<b>Accuracy</b>	0.5%FS(50Hz/60Hz; 23°C $\pm$ 2°C)
<b>Phase Error</b>	$\leq$ 2° (50Hz/60Hz;23 °C $\pm$ 2°C)
<b>Turn Ratio</b>	2500: 1 (optional 2000:1; 1000:1)
<b>Reference Load</b>	RL: 0~300mA $\leq$ 50 $\Omega$ ; 0~3A $\leq$ 50 $\Omega$ ; 0~30A $\leq$ 5 $\Omega$
<b>Dimensions</b>	L/T/H 42mmX 20mmx 137mm
<b>Output Interface</b>	3.5mm audio plug
<b>Output Line</b>	2m

<b>Length</b>	
<b>Weight</b>	180g
<b>Output Method</b>	Current sensing output
<b>External Material</b>	ABS resin, flame retardant rating 94V0
<b>Line Voltage</b>	600V AC (insulated wire) 30Vac (bare wire) test
<b>Working Temperature</b>	-25°C~55 °C
<b>Insulation Resistance</b>	100 M $\Omega$ @ 500Vdc
<b>Medium Strength</b>	AC3700V/rms (between iron core and shell)
<b>Current Frequency</b>	45Hz~65Hz(measured current frequency)
<b>Frequency Characteristics</b>	10Hz~100kHz



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