

FU-CT-O

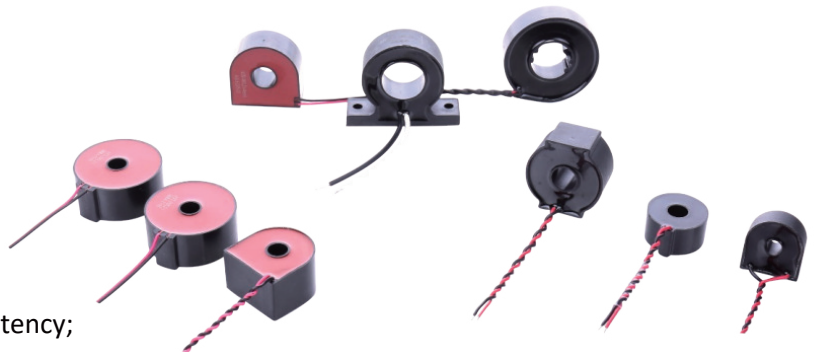
HIGH ACCURACY 0.1% 20Ω 100A MINIATURE CURRENT TRANSFORMER FOR ENERGY METER

This specification suitable for 50/60Hz multifunctional electronic electric energy meter, anti-stealing electric meter, digital meter, also be used for transducer electric variables, remote control data acquisition system, relay protection, digital device and meters.

All of our miniature current transformers are strictly comply IEC60044-1, IEC 61869-2, ANSI/IEEE C57.13, GB1208-2006, GB/T 20840.1-2010, GB/T 20840.2-2014, GB/T 22071.1-2018, IEC/EN61010-2-032, IEC/EN 61010-2-031.

Features

1. Harmonic measurement;
2. High content permalloy core;
3. Working Frequency: 50Hz~400Hz;
4. Operating Temperature: -40℃~95℃;
5. Multiple appearances can be choosed;
6. Measurement range of 1mA to 120A AC;
7. Low phase shift for power measurement;
8. High precision 0.1% for current measurement;
9. Improved ergonomic design & easy operation;
10. High accuracy, wide linear range, good consistency;
11. Holding wire diameter: $\phi 5\text{mm}$, 8mm, 13mm, 20mm;
12. IEC/EN61010-2-032, IEC 60044-1, IEC 61869-2 etc standard;
13. Wide linear output current, high precision and good consistency;
14. Comply to IEC 60044-1 0.05 class, Class 0.1, Class 0.2 standard requirements;
15. DC and even harmonics: 100A/V2, 1inductive, error should be less than $\pm 3\%$ @PF=1.0;
16. Suitable for three-phase electric energy meters with high precision and small phase displacement;
17. Encapsulated with epoxy resin, Power-frequency Withstand Voltages: 4000V 50Hz/1min, Insulation Resistance: $\geq 1000\text{M}\Omega/500\text{Vdc}$;



Applications

- | | | |
|--|--|-----------------------------------|
| 1. Relay protection; | 2. Digital meter; | 3. Metering device. |
| 4. Digital devices and meters; | 5. Anti-stealing electric meter; | 6. Transducer electric variables; |
| 7. Three-phase electric energy meters; | 8. Remote control data acquisition system; | |

Parameters

Current error (ratio)±%				Phase error (angle)±'			
Rated current percent value				Rated current percent value			
5%	20%	100%	I _{max}	5%	20%	100%	I _{max}
-0.1~+0.1	-0.1~+0.1	-0.1~+0.1	-0.1~+0.1	-15~+15	-13~+13	-10~+10	-8~+8

Note: All the above data need to be measured after demagnetization

Selection Guide

Model	Rated Primary Current	Current Ratio	Rated Burden	Accuracy Class
FU-CT-O001	5A-320A	3000 : 1	10Ω 20Ω	0.1
FU-CT-O002	5A-100A	2500 : 1	10Ω 20Ω	0.1
FU-CT-O003	5A-120A	2500 : 1	10Ω 20Ω	0.2
FU-CT-O004	5A-60A	2500 : 1	10Ω 20Ω	0.1
FU-CT-O005	1A-90A	3100 : 1	10Ω 20Ω	0.1
FU-CT-O006	5A-100A	4000 : 1	10Ω 20Ω	0.1
FU-CT-O007	5A-100A	2000 : 1	10Ω 20Ω	0.1
FU-CT-O008	5A-100A	1000 : 1	10Ω 20Ω	0.1
FU-CT-O009	5A-80A	2500 : 1	10Ω 20Ω	0.1
FU-CT-O010	5A-60A	2000 : 1	10Ω 20Ω	0.1
FU-CT-O011	5A-100A	2000 : 1	10Ω 20Ω	0.1
FU-CT-O012	5A-60A	1000 : 1	10Ω 20Ω	0.2
FU-CT-O013	5A-200A	4000 : 1	10Ω 20Ω	0.1
FU-CT-O014	5A-100A	2500 : 1	10Ω 20Ω	0.1
FU-CT-O015	5A-60A	2500 : 1	10Ω 20Ω	0.1
FU-CT-O016	5A-100A	2500 : 1	10Ω 20Ω	0.1
FU-CT-O017	5A-60A	2500 : 1	10Ω 20Ω	0.1
FU-CT-O018	5A-400A	4000 : 1	10Ω 20Ω	0.1
FU-CT-O019	5A-100A	2500 : 1	10Ω 20Ω	0.1
FU-CT-O020	5A-100A	2500 : 1	10Ω 20Ω	0.1

Notes: Only few typical products of this series are shown in the following page. GFUVE is capable of making other customized design and manufacturing per user request.