FU-PT

ENERGY METER PCB MOUNTED MINIATURE VOLTAGE TRANSFORMER

The GFUVE FU-PT series of miniature voltage transformers are designed for applications where AC voltage signals must be transformed accurately into a lower AC voltage signal appropriate for micro-processor based circuits.

The toroidal core, PCB voltage transformers are designed specifically for integration into products which require exceptionally accurate primary signal transformation while exposed to harsh environmental operating conditions.

A TV model can be designed and manufactured to meet the specific design challenges of the client's specific application.The following models are only a small sampling of the many different products which have been and are currently being manufactured.

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 voltage transformers are strictly comply IEC60044-2, IEC 61869-1,3, ANSI/IEEE C57.13, GB1208-2006, GB/T 20840.1,3, JB/T10667, GB/T 22071.1-2018, IEC/EN61010-2-032, IEC/EN 61010-2-031.

Features

1. RoHS compliant ;
2. Harmonic measurement;
3. High precision 0.1% for voltage signal;
4. Multiple appearances can be choosed;
5. Low phase shift for power measurement;
6. Dielectric Resistance: 1000M Ohms @500 Vdc;
7. Improved ergonomic design & easy operation;
8. Exterior Material:PBT Resin UL flame retardant rating 94-V0;
9. IEC/EN61010-2-032, IEC 60044-2, IEC 61869-1,3 etc standard;
10. Wide linear output current, high precision and good consistency;
11. Suitable for three-phase electric energy meters with high precision and small phase displacement;
12. Frequency: 40 to 400 Hz;
13. Rated Load Resistance:100K Ohms;
14. Operating Temperature: -40 to +95º C;
15. Interior Insulation: Epoxy Encapsulated;
16. Isolation Voltage: 2500 Vrms for 1 minute;
17. High accuracy, wide linear range, good consistency;
18. Surge Withstand: 5000V（1.2/50μs standard shock wave）optional;
19. Accuracy Class: as defined in IEC 60044-2 Part 2 Voltage Transformers Class 0.1;

Appliations

1. Digital meter;
2. Relay protection;
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;

Selection Guide

Model	Rated Primary Current	Secondary Current	Current Ratio	Rated Burden	Accuracy Class
FU-PT-001	2mA	2mA	1 : 1	≤50Ω	0.1, 0.2
FU-PT-002	2mA	2mA	1 : 1	≤50Ω	0.1, 0.2

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.