

FU-80

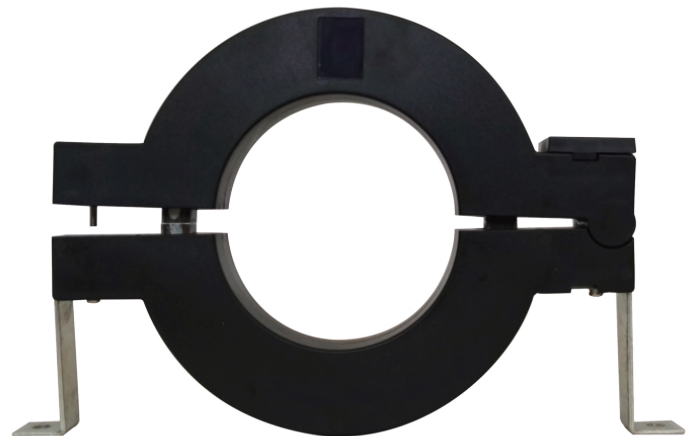
Low Cost Indoor Single Phase Split Core Current Transformer

The model FU-80 is a split-core current transformer offers 333mV, 100mV-2V and 10mA-500mA ,1A or 5A at secondary from sensed primary current (0-1200A). This model has three diameter version (30mm,55mm and 80mm), suite for all kinds of customers application.

This model FU-80 ct is a economic split core current transformer, using ABS and Anti-fire cover, it is very easy for installation.It has Low phase shift for power measurement.length of the output lead can be customized. This current transformer is compact and low cost current transformer with high accuracy. The CTs are ideal for quick and easy installation without disconnecting cables during installation. Multiple installation mechanisms provide stable and durable current measurement.

Features

1. Low cost deign;
2. Faster installation;
3. Most cost-effective;
4. Safe and easy installations;
5. CE, UL / EN 61010 - 1 certified;
6. High accuracy 0.2%, 0.5s, 0.5%;
7. Small-size, compact size, light-weight;
8. Low phase shift for power measurement;
9. Measurement range of 1mA to 1200A AC;
10. Over-Voltage protection circuit is installed;
11. Isolated plastic case recognized according to UL94-V0;
12. Holding wire diameter: ϕ 30mm or ϕ 55mm or ϕ 80mm;



Application

1. Load Center;
2. Digital Fault Recorders;
3. Three Phase Balance Control;
4. Power quality analyzer meter;
5. Smart Grid Application Features;
6. Various power monitoring systems;
7. In-Factory Display In-Home Display;
8. Energy meter current measurement;
9. Power Measurement Device For PLC;
10. Sub-Metering Accurate Measurement;
11. Inverters for Solar & Wind Turbine Systems;
12. HEMS (Home Energy Management System);
13. BEMS (Building Energy Management System);
14. Data Loggers to analyze Building & Machinery Performance;

Parameters

Technical parameters

Standards	IEC/EN60044-1 & IEC61010-1 & IEC61869-2&ANSI C57.13
Accuracy	0.2%, 0.5S, 0.5 %, 1%
Ratio	100: 1, 1000:5 or 1000:1 , customized
Nominal input current (Primary current)	100A/150A/200A/250A/300A/400A/500A/600A/750A/ 800A/1000A/1200A
Overload withstand	1.2 times rated current continuously
System Voltage	720V(0.72kV)
Output signal	50mA-500mA, 1A, 5A AC optional 333mV AC or 100mV-2V optional
Burden	2.5VA
Frequency range	40 Hz...500 Hz
Instrument security factor	FS5
Dielectric strength	2.5KV 50Hz/60Hz at 1 minute
Output	K1, K2 or S1, S2
Protection Level	3.0V0-P
Installation Category	CAT IV 600V AC IEC/EN 61010-1
Installation and fixation method	Screw fixing
Max. jaw opening	30 mm, 55mm, 80mm
Material	Silicon steel sheets+Enameled wire+ABS+ 94V-0
Color	Black

Mechanical parameters

Dimensions (W×D×H) (mm)	26 × 43 × 27;31 × 50 × 30; 43 × 73 × 39;60 × 89 × 43
Weight (g)	400, 550, 600

Operating conditions

Operating temperature	-25 to +55°C
Relative Humidity	0-85% non-condensing
Using Environment	Indoor
Altitude	<3000 meters
Condition	No existence of severely begrimed, erosive and radioactive gas in the air. Permission of long-term operation under rated current.

Technical Data

Purpose	Measuring current transformer		
	Ratio	Accuracy class	
I_1/I_2	0.2	0.5	1
5A/333mV	YES	YES	YES
10A/333mV	YES	YES	YES
20A/333mV	YES	YES	YES
50A/333mV	YES	YES	YES
60A/333mV	YES	YES	YES
100A/333mV	YES	YES	YES
150A/333mV	YES	YES	YES
200A/333mV	YES	YES	YES
300A/333mV	YES	YES	YES
400A/333mV	YES	YES	YES
500A/333mV	YES	YES	YES
600A/333mV	YES	YES	YES
5A/2.5mA	YES	YES	YES
10A/5mA	YES	YES	YES
20A/10mA	YES	YES	YES
50A/25mA	YES	YES	YES
60A/30mA	YES	YES	YES
100A/50mA	YES	YES	YES
150A/75mA	YES	YES	YES
200A/100mA	YES	YES	YES
50A/50mA	YES	YES	YES
60A/60mA	YES	YES	YES
100A/100mA	YES	YES	YES
150A/150mA	YES	YES	YES
200A/200mA	YES	YES	YES
100A/100mV	YES	YES	YES
100A/1V	YES	YES	YES
100A/2V	YES	YES	YES
100A/5V	YES	YES	YES
100A/10V	YES	YES	YES
200A/1V	YES	YES	YES
200A/2V	YES	YES	YES
200A/5V	YES	YES	YES
200A/10V	YES	YES	YES

Type - continued	FU-80- continued		
Purpose	Measuring current transformer		
Ratio	Accuracy class		
100A/1A	YES	YES	YES
200A/1A	YES	YES	YES
300A/1A	YES	YES	YES
400A/1A	YES	YES	YES
500A/1A	YES	YES	YES
600A/1A	YES	YES	YES
800A/1A	YES	YES	YES
1000A/1A	YES	YES	YES
200A/5A		YES	YES
300A/5A		YES	YES
400A/5A		YES	YES
500A/5A		YES	YES
600A/5A		YES	YES
800A/5A		YES	YES
1000A/5A		YES	YES

Selection Guide

Model	Primary rated current	Rated load	Secondary output	Aperture (mm)	Description (mm)	Weight (kg)
FU-16	5-200A	≤10 Ohm	333mV,1V, 5V,100mA	φ16	38 x 55 x 18	0.06
FU-32	100-600A	≤10VA	333mV,1V, 5V, 1A, 5A	φ32	110 x 130 x 41	0.7
FU-36	100-600A	≤2.5VA	333mV,1V, 5V, 1A, 5A	φ10, φ16, φ24, φ36	26 x 43 x 27 31 x 50 x 30 43 x 73 x 39 60 x 89 x 43	0.1, 0.12, 0.2, 0.35
FU-80	100-1200A	≤5VA	333mV,1V, 5V, 1A, 5A	φ30, φ55, φ80	88 x 129 x 28 108 x 155 x 28 138 x 193 x 28	0.4, 0.55, 0.6
FU-100	300-3000A	≤10VA	333mV,1V, 5V, 1A, 5A	φ100	170 x 184.5 x 41	1
FU120	200-4000A	≤10VA	333mV,1V, 5V, 1A, 5A	120 x 130, 120 x 30	166 x 110 x 49 166 x 208 x 49	1.2, 1.7
FU160	100-5000A	≤20VA	1A,5A	160 x 80	144 x 227 x 54	2.8