

## FU-32

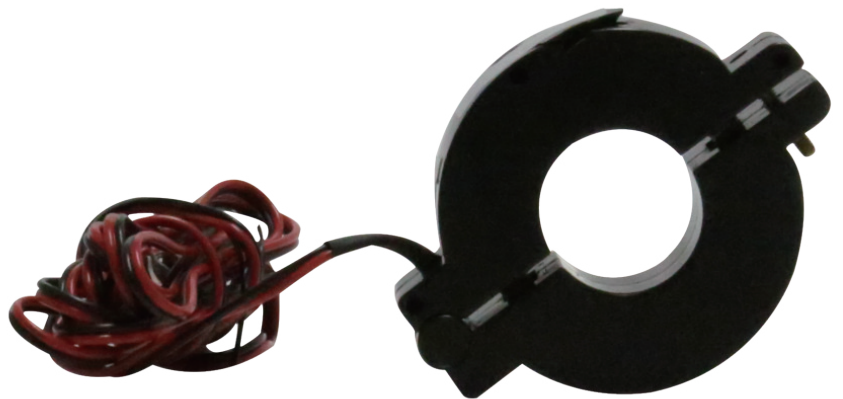
### 200/5A ECONOMIC INDOOR SPLIT CORE CLAMP-ON CURRENT TRANSFORMER

The model FU-32 Clamp-on ct is a 32mm diameter split-core current transformer offers 333mV, 100mV-2V and 10mA-200mA ,1A or 5A at secondary from sensed primary current (0-600A).

This is a economic clamp-on 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. All of our clamp-on current transformers are strictly comply IEC60044-1, IEC 61869-2, ANSI/IEEE C57.13, NTC 2205, GB1208-2006, GB/T 20840.1-2010, GB/T 20840.2-2014, GB/T 22071.1-2018.

### Features

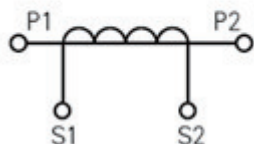
1. Faster installation;
2. Most cost-effective;
3. Safe and easy installations;
4. High accuracy 0.2%, 0.5%, 1%;
5. CE, UL / EN 61010 - 1 certified;
6. Holding wire diameter:  $\phi 32\text{mm}$ ;
7. Measurement range up to 600A AC;
8. Small-size, compact size, light-weight;
9. Ratio's ranging from 60/1A to 600/5A;
10. Low phase shift for power measurement;
11. Over-Voltage protection circuit is installed;
12. Output model: Lead output(2.5m)-can be customized;
13. Isolated plastic case recognized according to UL94-V0;



### Features

- |                        |                                        |                                               |
|------------------------|----------------------------------------|-----------------------------------------------|
| 1. Switchgears;        | 7. Power Quality meter;                | 12. Distributed measurement systems;          |
| 2. General Sets;       | 8. Power Quality Analyzer;             | 13. Various power monitoring systems;         |
| 3. Control panels;     | 9. Power quality monitoring;           | 14. Power meter and harmonic meters;          |
| 4. Distribution boxes  | 10. Energy meter(kWh meter);           | 15. HEMS (Home Energy Management System);     |
| 5. Energy sub – meter; | 11. Recorders, loggers, oscilloscopes; | 16. BEMS (Building Energy Management System); |
| 6. HVAC & Pumps, etc;  |                                        |                                               |

## Wiring Diagrams



### Single winding

P1, P2 is primary polarity terminal, S1, S2 is secondary polarity terminal.

P2, S2 is homonymous terminals (subtractive polarity).

## Parameters

| Technical parameters                                                     |                                                                                                                           |
|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Standards                                                                | IEC60044-1; IEC 61869-2; NTC 2205; ANSI/IEEE C57.13; GB1208-2006; GB/T 20840.1-2010, GB/T 20840.2-2014, GB/T 22071.1-2018 |
| Accuracy Class                                                           | 0.2 , 0.5, 1                                                                                                              |
| Range of primary rated current                                           | 60A/75A/80A/100A/150A/200A/250A/300A/400A/500A/600A                                                                       |
| Range of Rated Burden                                                    | 2.5VA-5VA                                                                                                                 |
| Rated frequency                                                          | 50/60Hz                                                                                                                   |
| Rated secondary output                                                   | 50mA-500mA, 1A, 5A AC optional<br>333mV AC or 100mV-2V optional                                                           |
| Frequency range                                                          | 40Hz-2KHz                                                                                                                 |
| System Voltage                                                           | 720V(0.72kV)                                                                                                              |
| Rated continuous thermal current                                         | 120%I <sub>n</sub> continuously                                                                                           |
| Secondary winding power frequency withstand voltage(Dielectric strength) | 3kV, 1min                                                                                                                 |
| Safety                                                                   | CAT IV 600V IEC/EN 61010-1                                                                                                |
| Output                                                                   | K1, K2 or S1, S2; Standard 2.5 meter cable                                                                                |
| Protection Level                                                         | 3.0V0-P                                                                                                                   |
| Internal structure                                                       | Clamp-on Design                                                                                                           |
| Material                                                                 | Silicon steel sheets+Enameled wire+ABS+ 94V-0                                                                             |
| Mechanical parameters                                                    |                                                                                                                           |
| Dimensions (W×D×H) (mm)                                                  | 110 x 130 x 41                                                                                                            |
| Jaw cable diameter(mm)                                                   | 32                                                                                                                        |
| Weight (g)                                                               | 700                                                                                                                       |
| Color                                                                    | grey                                                                                                                      |

| Working conditions    |                                                                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Operating temperature | -25°C to +55°C                                                                                                                       |
| Storage temperature   | -40°C to +70°C                                                                                                                       |
| Environment           | indoors                                                                                                                              |
| Altitude              | <3000 meters                                                                                                                         |
| Conditions            | No existence of severely begrimed, erosive and radioactive gas in the air.<br>Permission of long-term operation under rated current. |

## Specification

| Type       | FU-32                         |     |     |
|------------|-------------------------------|-----|-----|
| 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 |
| 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 |
| 100A/1V    | YES                           | YES | YES |
| 100A/2V    | YES                           | YES | YES |
| 100A/5V    | YES                           | YES | YES |
| 200A/1V    | YES                           | YES | YES |
| 200A/2V    | YES                           | YES | YES |
| 200A/5V    | YES                           | YES | YES |
| 300A/1V    | YES                           | YES | YES |
| 300A/2V    | YES                           | YES | YES |
| 300A/5V    | YES                           | YES | YES |
| 400A/1V    | YES                           | YES | YES |
| 400A/2V    | YES                           | YES | YES |
| 400A/5V    | YES                           | YES | YES |
| 500A/1V    | YES                           | YES | YES |
| 500A/2V    | YES                           | YES | YES |
| 500A/5V    | YES                           | YES | YES |
| 600A/1V    | YES                           | YES | YES |
| 600A/2V    | YES                           | YES | YES |
| 600A/5V    | YES                           | YES | YES |
| 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 |

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|-----------|-------------------------------|-----|-----|
| Purpose   | Measuring current transformer |     |     |
| Ratio     | Accuracy class                |     |     |
| $I_1/I_2$ | 0.2                           | 0.5 | 1   |
| 100A/5A   |                               |     | YES |
| 200A/5A   |                               | YES | YES |
| 300A/5A   |                               | YES | YES |
| 400A/5A   |                               | YES | YES |
| 500A/5A   |                               | YES | YES |
| 600A/5A   |                               | YES | YES |

## Selection Guide

| Model  | Primary rated current | Rated load            | Secondary output          | Aperture (mm)                                                    | Description (mm)                                             | Weight (kg)                   |
|--------|-----------------------|-----------------------|---------------------------|------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------|
| FU-16  | 5-200A                | $\leq 10 \text{ Ohm}$ | 333mV, 1V, 5V, 100mA      | $\varnothing 16$                                                 | 38 x 55 x 18                                                 | 0.06                          |
| FU-32  | 100-600A              | $\leq 10 \text{ VA}$  | 333mV, 1V, 5V, 1A, 5A     | $\varnothing 32$                                                 | 110 x 130 x 41                                               | 0.7                           |
| FU-36  | 100-600A              | $\leq 2.5 \text{ VA}$ | 333mV, 1V, 5V, 1A, 5A     | $\varnothing 10, \varnothing 16, \varnothing 24, \varnothing 36$ | 26 x 43 x 27<br>31 x 50 x 30<br>43 x 73 x 39<br>60 x 89 x 43 | 0.1,<br>0.12,<br>0.2,<br>0.35 |
| FU-80  | 100-1200A             | $\leq 5 \text{ VA}$   | 333mV, 1V, 5V, 1A, 5A     | $\varnothing 30, \varnothing 55, \varnothing 80$                 | 88 x 129 x 28<br>108 x 155 x 28<br>138 x 193 x 28            | 0.4, 0.55, 0.7                |
| FU-100 | 300-3000A             | $\leq 10 \text{ VA}$  | 333mV, 1V, 5V, 1A, 5A     | $\varnothing 100$                                                | 170 x 184.5 x 41                                             | 1                             |
| FU120  | 200-4000A             | $\leq 10 \text{ VA}$  | 333mV, 1V, 5V, 1A, 5A     | 120 x 130, 120 x 30                                              | 166 x 110 x 49<br>166 x 208 x 49                             | 1.2, 1.7                      |
| FU160  | 500-5000A             | $\leq 20 \text{ VA}$  | 333mV, 1V, 2V, 5V, 1A, 5A | 160 x 80, 120 x 80                                               | 144 x 227 x 54                                               | 2.8, 2.3                      |

## Ordering Information

Be sure to the type, current ratio, accuracy class, rated load and use of the products when you plan to make a order. Special specifications could be customized. All kinds of different specifications and parameters current transformers can be made according to your needs.