

WiFi Smart Meter Auto-Reclosing Protector



USER MANUAL

Overview

This all-in-one design smart IOT device applied to AC 230V/400V, 50/60Hz, rated current up to 63A/100A single or three phase circuits in resident, commercial and industrial buildings with 2.4G WiFi, to measure electricity consumption and offer prepayment as option; to remote control and set protections against over/under voltage, overcurrent, residual current(leakage), high temperature via mobile App anytime anywhere; and auto reclosing after protected conditions recovery to achieve non-attended management; programmable timing control to make your scheduled life efficiently and save electricity, and sharing device with your family or persons concerned in your team. It also supports local manual control without WiFi, and voice control through AI speaker, such as Amazon Alexa, Google Assistant, Yandex Alice, and etc.

Main specifications

Poles: single phase 2P, three phase 4P available;

Rated voltage: 2P AC230V, 4P AC3x230V/400V (over/under voltage protection adjustable);

Rated current: 1~63A/100A adjustable;

Frequency: 50/60Hz;

Capacity: resistive load $\leq 13\text{kW}$, inductive load $\leq 6\text{kW}$;

Self-consumption: $< 2\text{W}$;

Mounting: 35mm din-rail;

Functional features

01. Four options on control:

- Remote control anytime anywhere (mobile app, Tuya Smart, Smart Life)
- Voice control (AI speaker, Alexa, Google, Alice, ...)
- Timing control (programmable Schedule)
- Manual control (by keys and handle)

02. Monitor real-time electricity consumption and statistics on phone (A, V, mA, kW, kW/h, °C);

03. Prepaid metering mode available as option by switch;

04. Adjustable protections against over/under voltage, overcurrent, residual current(leakage), high temperature;

05. Overcurrent protection: 1~63A/100A adjustable, 63A as default;

06. Over voltage protection: 250~400V adjustable, 275V as default;

07. Under voltage protection: 150~190V adjustable, 170V as default;

08. Residual current(leakage) protection: 10~100mA adjustable, 50mA as default;

09. Alarm temperature protection: 50~90°C adjustable, 60°C as default;

10. Tripping temperature protection: 60~100°C adjustable, 70°C as default;

11. Recovery on-delay time: 5~90s adjustable, 30s as default (manual setting on device by keys, not in app);

12. 2P ground wiring for surge protection, 4P three phase four wire solve three phase unbalance;

13. Local manual setting on device (no need WiFi support);

14. Auto-reclosing after protected conditions recovery;

15. Timing schedule programmable on App;

16. Device sharing among family or your team;

Note: If the protector trips 3 times due to leakage, it will not auto-reclosing until the fault fixed by user to ensure safety!

2P



4P





How to add device in APP

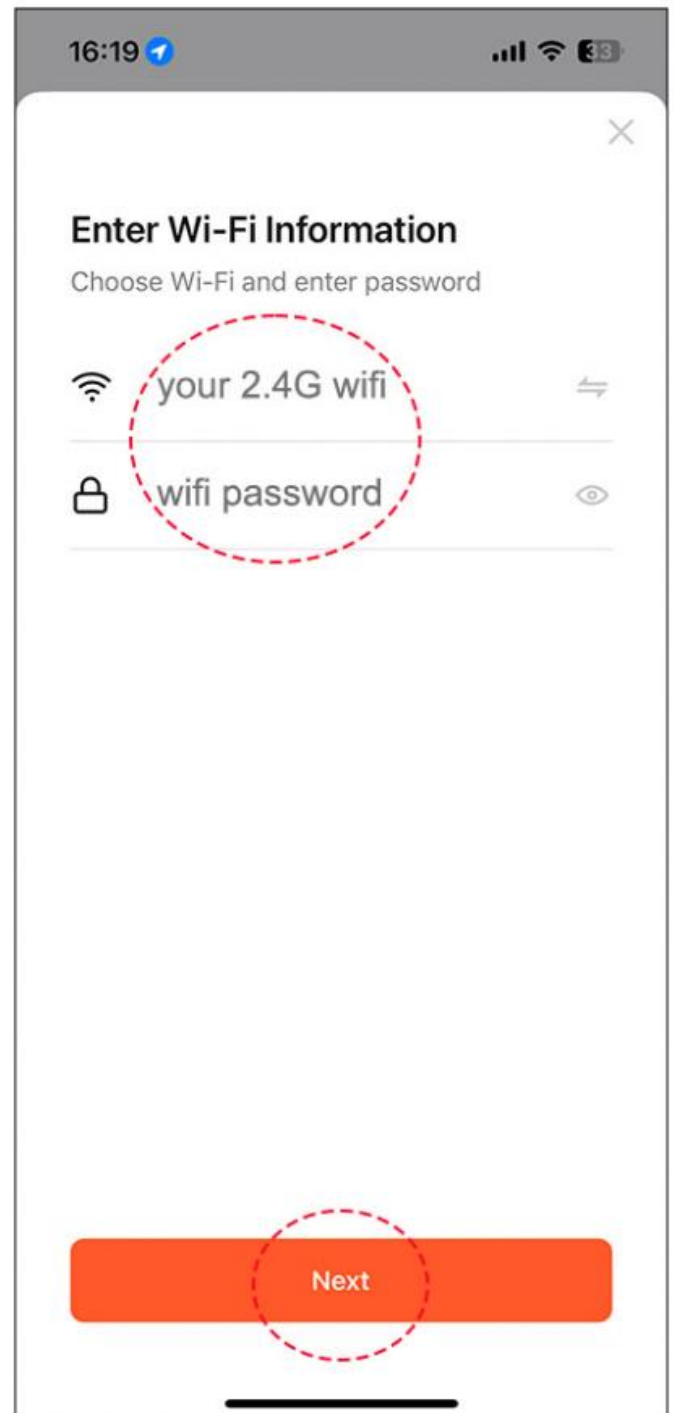
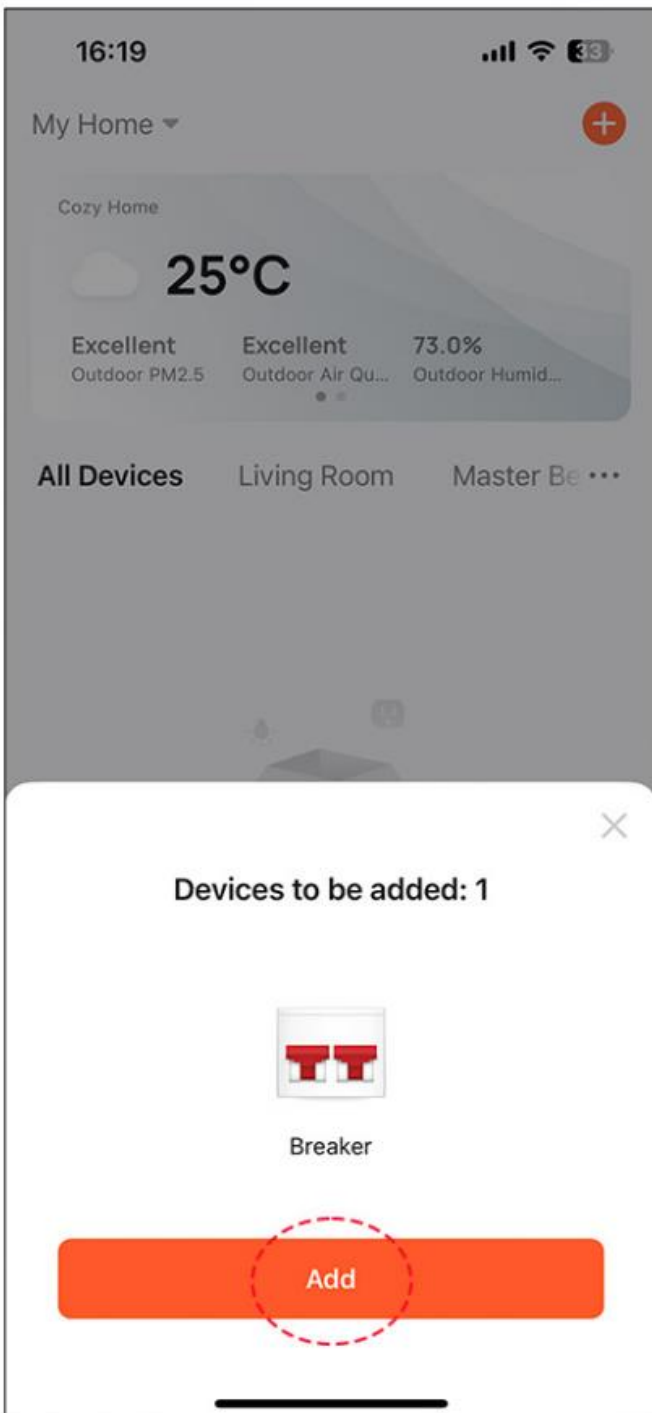
1). Download and install APP on mobile, and register with your phone number;

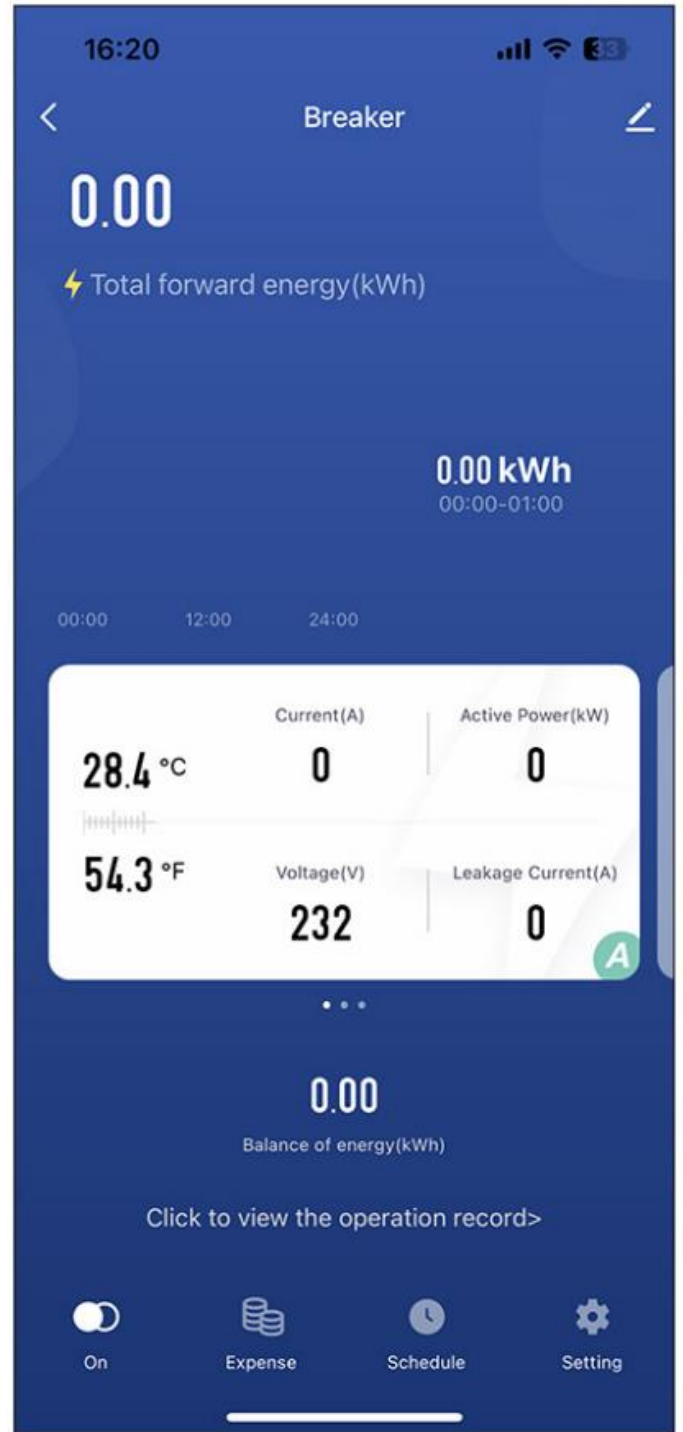
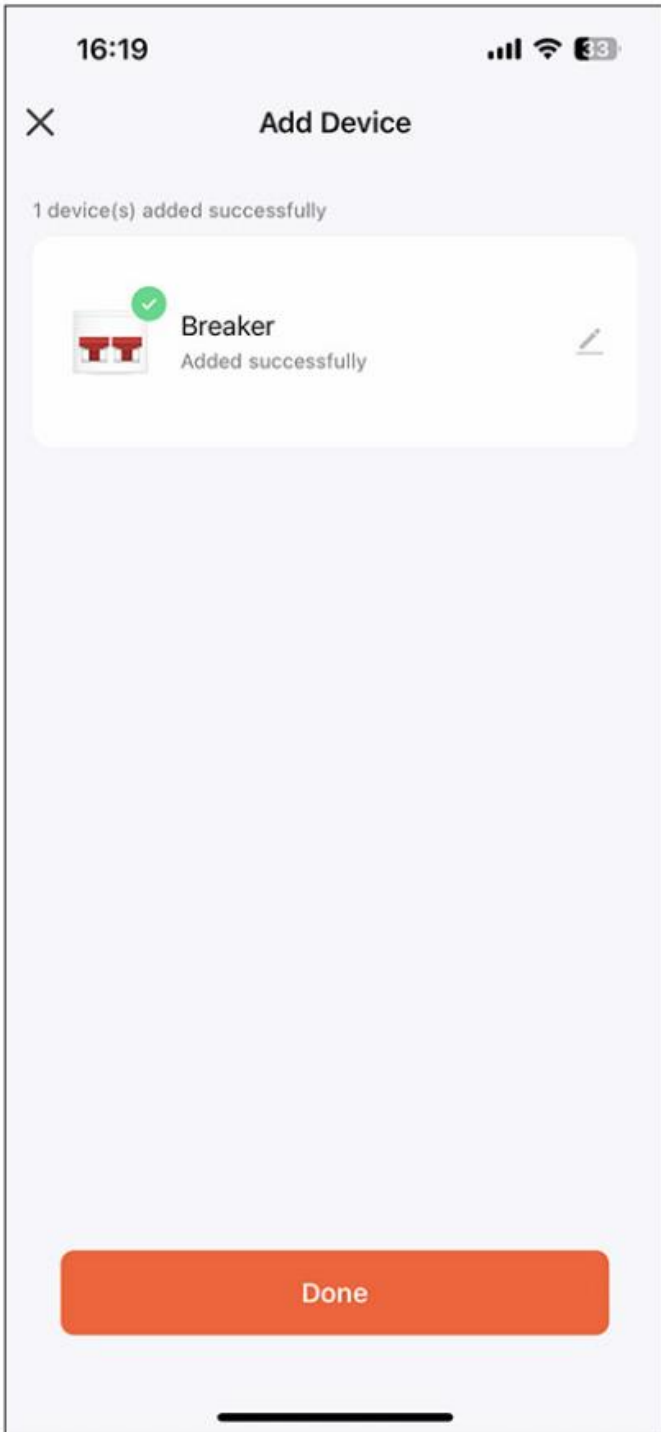


Tuya Smart

2). Power on the device, switch on , then long press  for seconds, the signal indicator flash fast to enter pairing mode;

3). Start Tuya Smart app on mobile, goes as following step by step;





On

Remote ON/OFF on mobile



Expense

Enter prepaid metering mode



Schedule

Timing schedule programmable here




Setting

Adjust protection parameters

Local manual operation and settings



1). Data view on device

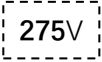



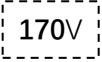



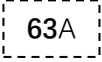



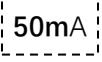



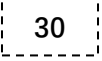



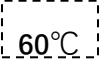







Click  to view data on the device, it will display following settings in turn in circle:

Over voltage (275V) -> Under voltage (170V) -> Overcurrent (63A) -> Leakage current (50mA)

-> Recovery on-delay time (30) -> Alarm temperature (60°C) -> Tripping temperature (70°C) ->

2). Manual setting on device

Long press  for seconds, the display value flash and indicator lights, to enter setup mode,

- 1  275V adjust the **over voltage** protection value by  and  then click  shift to the next item;
- 2  170V adjust the **under voltage** protection value by  and  then click  shift to the next item;
- 3  63A adjust the **overcurrent** protection value by  and  then click  shift to the next item;
- 4  50mA adjust the **leakage current** protection value by  and  then click  shift to the next item;
- 5  30 adjust the **recovery on-delay time** by  and  then click  shift to the next item;
- 6  60°C adjust the **alarm temperature** by  and  then click  shift to the next item;
- 7  70°C adjust the **tripping temperature** by  and  then click  shift to the next item;

Dimensions



Wiring diagram

