

YCPS3-100LW Smart Three Phase Energy Meter & Protector



General

The YCPS3-100LW is a smart three phase energy meter & protector, designed for comprehensive monitoring and protection of power systems. The device provides bidirectional energy monitoring and over/under voltage protection. It features over/under current protection, high temperature alarm and multiple imbalance protection functions. It can be controlled remotely through Tuya Smart and Smart Life, where the action threshold and the On/Off switch of each parameter can be adjusted, and the occurrence of faults such as over voltage, under voltage, overload, current loss, current leakage, voltage imbalance, current imbalance and phase sequence protection is recorded.

Type designation

Company Code	Smart Protector	Number of Phases	Max. Current	Function	Communication
YC	PS	3	- 100	L	W
Company Code				Current Leakage	WiFi

Operating Conditions

1. Working Temperature: -30°C~70°C
2. Working Humidity: ≤85%
3. Working Altitude: Not exceeding 2000m
4. Pollution Level: Level 3
5. Modular design appearance, DIN rail installation.
6. Wiring Capacity: Insulated copper wire of 35mm² and under.

Final Distribution

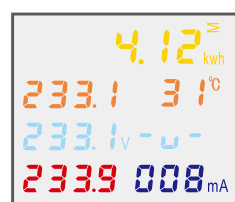
YCPS3-100LW Smart Three Phase Energy Meter & Protector

Operating condition

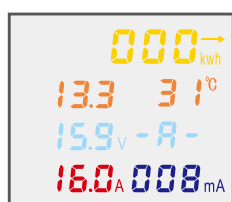
Function	Unit	Range	Default
Over Voltage Limit	V	120-300	275
Under Voltage Limit	V	80-210	175
Over & Under Voltage Protection Delay	S	1-9999	3
Over & Under Voltage Protection Recovery Time	S	1-9999	20
Over Current Limit	A	1-100	80
Over & Under Current Protection Delay	S	0-9999	5
Over & Under Current Protection Recovery Time	S	0-9999	20
Under Current Limit	A	1-100	10
Current Leakage Limit	mA	10-100	30
Energy Consumption Zero Clearing	OFF/On (TUYA control)		OFF
Factory Settings Reset	OFF/On (TUYA control)		OFF
Display Mode		1/2	1

Menu settings

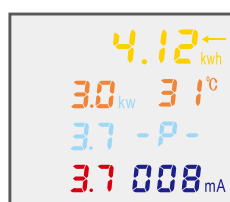
Mode 1



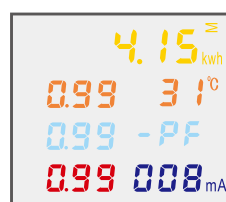
-U- Voltage, Total Electricity Consumption



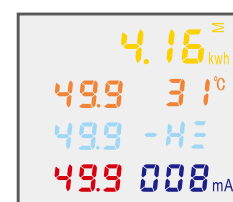
-A- Current, Forward Electricity Consumption



-P- Power, Reverse Electricity Consumption

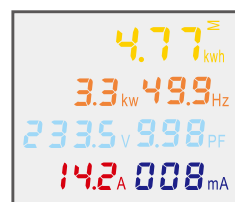


Power, Factor Total Electricity Consumption

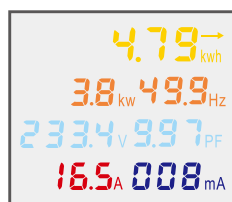


Frequency, Total Electricity Consumption

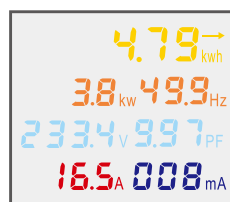
Mode 2



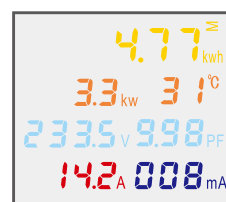
A-Phase Power Parameters



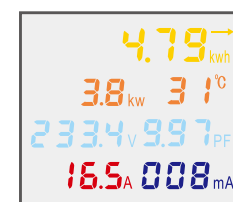
B-Phase Power Parameters



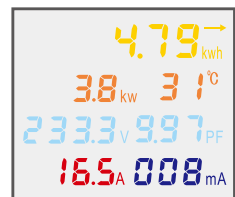
C-Phase Power Parameters



A-Phase Parameters & Temperature



B-Phase Parameters & Temperature



C-Phase Parameters & Temperature

WiFi Indicator Light Status

1. Fast flashing indicates searching for WiFi signal
2. Slow flashing indicates WiFi offline statu
3. Long light indicates that WiFi is connected

Final Distribution

YCPS3-100LW Smart Three Phase Energy Meter & Protector

Fault Settings

Long press  key to enter the settings states and show the settings



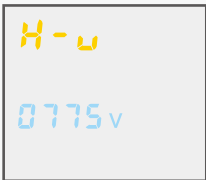
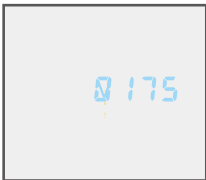
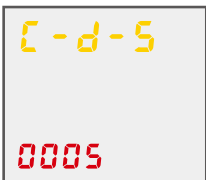
Change the settings by pressing   keys



Short press OK key to confirm the settings on this page and jump to the next settings page

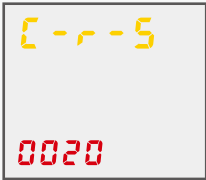


Long press SET key to exit the settings states and save the settings

Function	Function Description	
Over Voltage Limit		If the over voltage limit is set at 300V, when the voltage is over 300V, the device will automatically switch off.
Under Voltage Limit		If the under voltage limit is set at 80V, when the voltage is under 80V, the device will automatically switch off.
Under & Over Voltage Protection Delay		If the voltage is over or under the set value, the device will automatically switch off after the set delay time.
Over & Under Voltage Protection Recovery Time		If the voltage is over or under the set value, the device will automatically switch off and when the voltage returns to normal value it will recover after the set delay time.
Over Current Limit		If the over current limit is set at 80A, the device will automatically switch off when the current is over 80A.
Over & Under Current Protection Delay		If the current is over or under the set value, the device will automatically switch off after the set delay time.

Final Distribution

YCPS3-100LW Smart Three Phase Energy Meter & Protector

Function	Function Description	
Over & Under Current Protection Recovery Time		If the current is over or under the set value, the device will automatically switch off and when the current returns to normal value it will recover after the set delay time.
Under Current Limit		If the under current limit is set at 60A, the device will automatically switch off when the current is under 60A.
Current Leakage Limit		If the current leakage limit is set at 30mA, the device will automatically switch off when the current leakage is over 30mA.
Display Mode		Default Display Mode 1, refer to page 3 (Display Mode)
Energy Consumption Zero Clearing		OFF/ON
Factory Settings Reset		OFF/ON

Final Distribution

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Overall and mounting dimensions (mm)

