



RMDZW-3PN 100A WiFi Smart Three Phase Energy Meter&Protector User's Manual



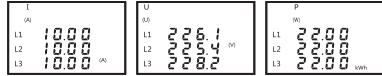
Main Functions:

- 1.Over Voltage Protection
 - 2.Under Voltage Protection
 - 3.Over Current Protection
 - 4.Under Current Protection
 - 5.Delay Protection
 - 6.Timer Switch
 - 7.Voltage Imbalance Protection
 - 8.Current Imbalance Protection
 - 9.Shortage Phase Protection
 - 10.Phase Sequence Protection
 - 11.Bidirectional Energy Monitor
- Each parameter can be set with action threshold and On/Off.

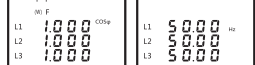
Backlight:

- 1.Light Up Time: The display will keep lighting up for 180 seconds without any actions.
- 2.Color: The backlight color is white during normal working, it will turns to be red when the relay disconnected.

Press the up and down buttons to switch and display the Voltage,Current, Power Consumption, Power Factor Frequency.



Real Time Current Real Time Voltage Real Time Power



Real Time Power Factor Real Time Frequency

Fault Record:

Record Overvoltage, Undervoltage, Overload, Low Currentprotection, Voltage Imbalance, Current Imbalance and Phase Sequence Protection.
Note:Tuya App Record

Wifi Indicator Status:

1. Flashing indicates searching for WiFi signal.
2. Slow flashing indicates WiFi is offline.
3. Long lights indicates WiFi is connected.

Function Settings :

Long press and hold the setting button to enter the setting status display setting page, flashing the set data bits



Set the content of this bit through the up and down buttons



Short press the setting key to switch the setting bit

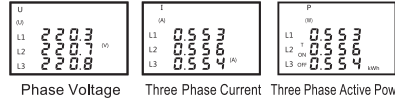


Short press OK to confirm the settings on this page and jump to the next settings page

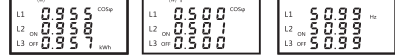


Long press OK to exit the setting state and save the settings

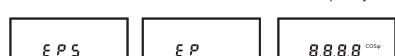
Display the "Voltage" interface: Long press and hold to configure WIFI, and switch the display to EPS (Combined active power), long press and hold to clear the power, and display the"Frequency Interface" Restore factory configuration.



Phase Voltage Three Phase Current Three Phase Active Power



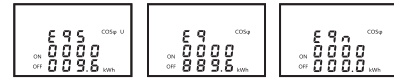
Thre Phase Reactive Power Three Phase Power Factor Three Phase Frequency



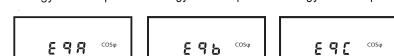
Active Combined Energy Consumption Active Foward Energy Consumption Active Reverse Energy Consumption



Active A-Phase Energy Consumption Active B-Phase Energy Consumption Active C-Phase Energy Consumption



Combined Reactive Energy Consumption Reactive Forward Energy Consumption Reactive Reverse Energy Consumption



Reactive Phase A Energy Consumption Reactive Phase B Energy Consumption Reactive Phase C Energy Consumption

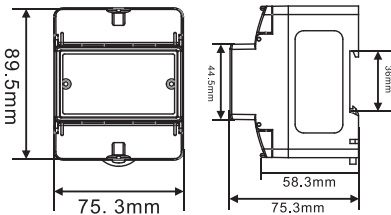
Installation and Usage Conditions:

- 1.Temperature:-20°C~60°C
- 2.Humidity:<85%
- 3.Altitude: not exceeding 2000m
- 4.Pollutionlevel: Level 3
- 5.Installation: 35MM Din Rail
- 6.Wiring Capacity: Insulated copper wire of 35 mm² or below.

Precautions:

- 1.This product has no isolation function. Please disconnect the front stage when repairing the circuit breaker switch.
- 2.The zero line (N line) of this product is directly connected without disconnection function.
- 3.The protector must be wired according to the markings and must be connected correctly.
- 4.Although this product has limited current protection function, it cannot replace circuit breakers,please install circuit breakers such as DZ47 or C65 at the front or the end of the line for short circuit protection.
- 5.Before use, please tighten the clamp screw to avoid product damaged caught by poor connection.

Installation Wiring and Dimensions:

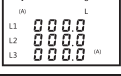


Guarantee:

Within 12 months from the date of production, if there are any product quality issues,our factory will provide free replacement.

Function	Set Parameter Range	Factory Default Settings	Function Description
Power Restoration Delay Protection	----(Hand Movement) 0000-9999Second(s)	5S	 This function is to protect the device being destroyed by instantaneous high voltage and surge during power restoration.
Over Voltage Limit	60-300V	275V	 If the over voltage limit is set at 300V, when the voltage is over 300V, the device will automatically switch off. (Every phase can be set separately)
Under Voltage Limit	60-300V	175V	 If the under voltage limit is set at 60V, when the voltage is under 60V, the device will automatically switch off. (Every phase can be set separately)
Under Voltage and Over Voltage Protection Delay	----(Hand Movement) 0000-9999Second(S)	20S	 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 revoer after the set delay time.
Under Current Limit	0.0-60A	0.0A	 If the under current limit is set at 60A, the device will automatically switch off when the current is under 60A after the set delay time. (Every phase can be set separately)

---- Stands for : Manual Recovery
0000 Stands for: Immediate Recovery

Function	Set Parameter Range	Factory Default Settings	Function Description
Under Current Limit Delay Protection	0000-9999Second(S)	5S	 When the current is under the setting value, the device will automatically switch off after the delay time.
Under Current Limit Protection Delay	0000-9999Second(S)	20S	 When the current recovers to be over the setting value, the device will automatically switch on after the delay time.
Over Current Limit	1.0-100.0A	100A	 If the over current limit is set at 80A, the device will automatically switch off when the current is over 80A after the set delay time. (Every phase can be set separately)
Over Current Limit Delay Protection	0000-9999Second(S)	5S	 When the current is over the setting value, the device will automatically switch off after the delay time.
Over Current Limit Protection Delay	0000-9999Second(S)	60S	 When the current recover to be under the setting value, the device will automatically switch on after the delay time.

Function	Set Parameter Range	Factory Default Settings	Function Description
Uneven Voltage Balance Protection%	On/off 0000-9999% On		 The device will switch off if the highest or lowest voltage of ABC Phase exceed the set value.
Current Unevenness Balance Protection%	On/off 0000-9999% On		 The device will switch off if the highest or lowest current of ABC Phase exceed the set value.
Phase -Sequence Protection	On/off On		 The device will switch off if there is any Phase error in the ABC phase sequence.

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