

VoltEdge

Three-phase multifunction energy meter

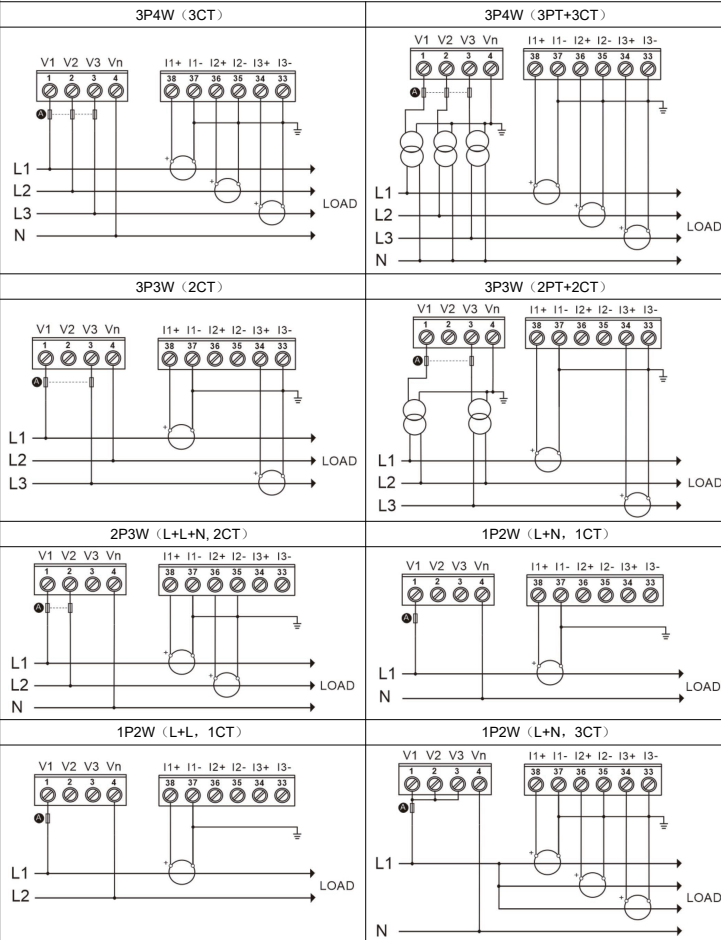
VE-EM43 Series

User Guide V1.0

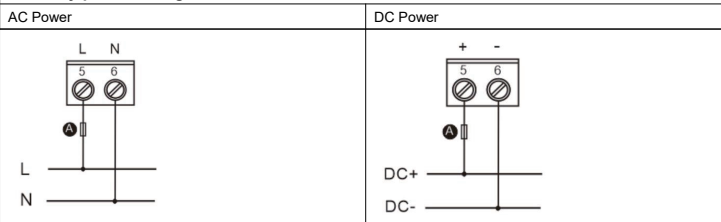


2.3. Wiring Diagrams

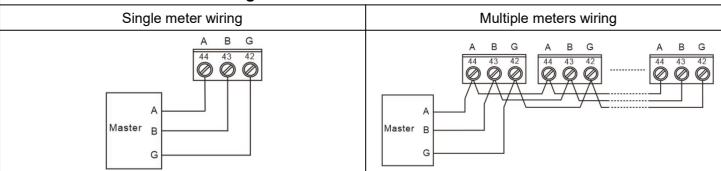
Measurement input wiring



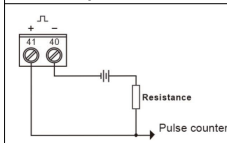
Auxiliary power wiring



Communication terminal wiring



Pulse output terminal wiring



A : 500 mA fast fuse.

Terminal specification parameters

Voltage measurement input terminal	Wire size: 0.82 ~ 3.31 mm ² (18 ~ 12 AWG) Torque: 0.5 ~ 0.6 N.m
Current measurement input terminal	Wire size: 1.318 ~ 3.31 mm ² (16 ~ 12 AWG) Torque: 0.5 ~ 0.6 N.m
Auxiliary power terminal	Wire size: 0.82 ~ 3.31 mm ² (18 ~ 12 AWG) Torque: 0.5 ~ 0.6 N.m
Communication terminal	Wire size: 0.82 ~ 3.31 mm ² (18 ~ 12 AWG) Torque: 0.5 ~ 0.6 N.m
Pulse output terminal	Wire size: 0.82 ~ 3.31 mm ² (18 ~ 12 AWG) Torque: 0.5 ~ 0.6 N.m
Digital inout and out terminal	Wire size: 0.82 ~ 3.31 mm ² (18 ~ 12 AWG) Torque: 0.5 ~ 0.6 N.m

4.3. Network config operation

Step 1: After completing the wiring according to the wiring diagram of the meter, then power on the meter.

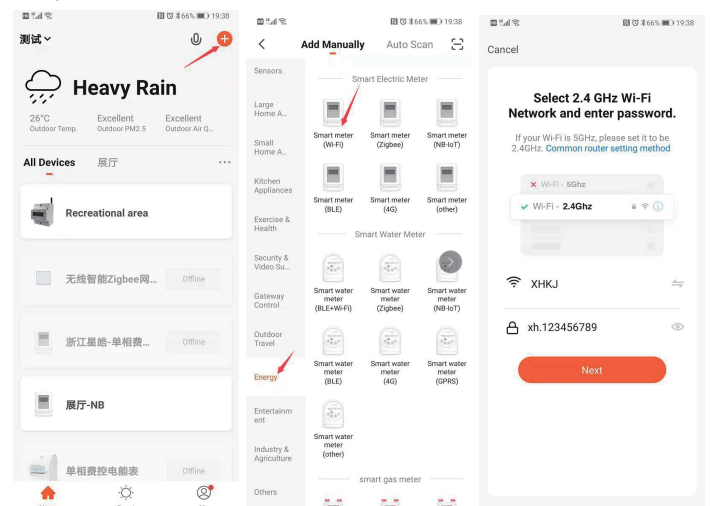
Step 2: Connect the phone's WIFI to the router that the meter needs to connect (make sure 2.4G WIFI, will otherwise cause subsequent config network failure).

Step 3: Open the Tuya smart APP, and click the Add Device button to select "Smart Meter (WIFI)" in the "Energy" category.

Step 4: Verify whether the name and password of the WIFI hotspot prompted on the mobile phone interface belong to the target router needing to be connected. After confirming the information, click the "Next" button to operate according to the prompts to complete the operation of the distribution network.

Note: During network config, you are advised to enable bluetooth for your mobile phone to improve the smooth network config.

Example:

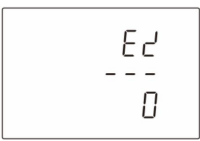
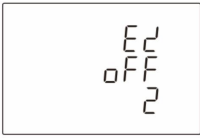
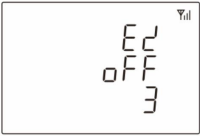


4.4. Button definition description

Button	Definition	Click	Press 3 second
	Button 1: Escape key (Esc)	1. In the setting screen or auxiliary screen: exit or return to the previous screen. 2. In the main display screen: page scroll for parameters such as voltage and current.	Under the main display screen: enter the auxiliary display screen.
	Button 2: Up key (Up)	1. In the main display screen: view the power factor, maximum demand. 2. In the setting screen or auxiliary screen: scroll up to display the page or the increasing number.	Null
	Button 3: Down key (Dn)	1. In the main display screen: veiw the power information. 2. In the setting screen or auxiliary screen: scroll down to display the page or the decreasing number.	Null
	Button 4: Enter key (Et)	1. In the main display screen: veiw energy data and system time. 2. In the setting screen: right move the setting cursor.	1. In the main display screen: enter the setting mode. 2. In the setting screen: enter the setting state or carry out confirmation operation.

How to enter the " Indicates the networkconfiguration status " screen:

Under the main display screen, press button 1 for 3 second to enter the screen of auxiliary display. At this point, click button 2 or button 3 can be scroll the page needs to be viewed. Under the screen of auxiliary display, can click button 1 to return to the main display screen. If there is no button operation in more than 1 minute under the screen of auxiliary display, the meter will automatically return to the main display screen.

LCD display	Description
	Indicates that the current WIFI is in Smartconfig state.
	Indicates that the current WIFI is configured but not connected to the route.
	Indicates that the current WIFI is configured and connected to the router, but not connected to the cloud.
	WIFI connects to a router and connects to the cloud.
Note: On this screen, press button 4 for 3 seconds, WIFI will be reset, and the meter will enter the network configuration mode.	