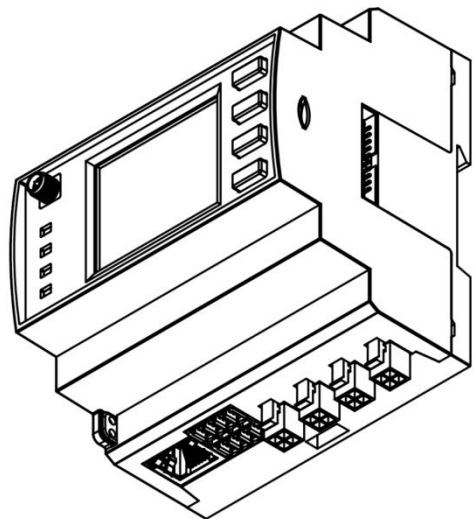


ME430

Three phase multi function intelligent electricity meter

V0.2.260831



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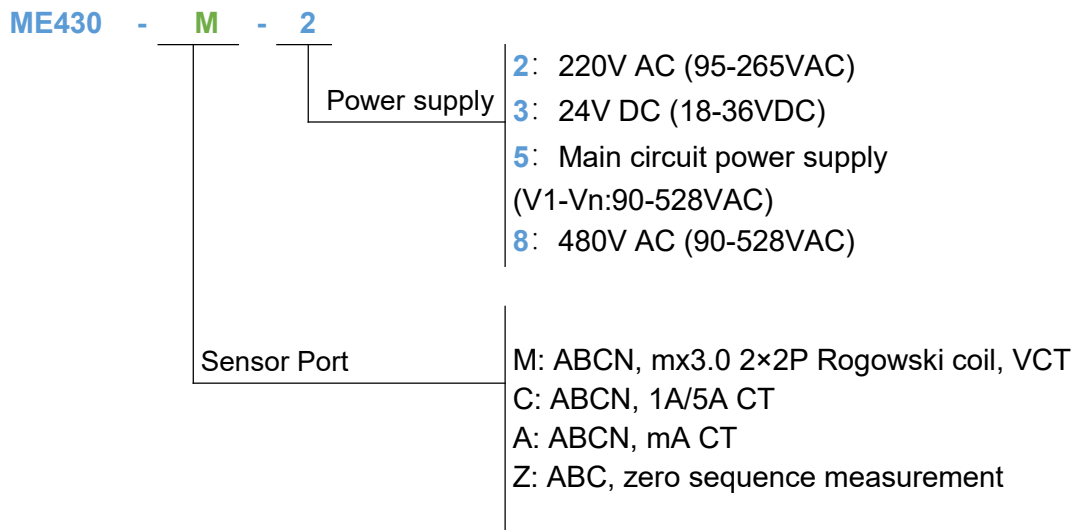
1 Product description

The ME430 DIN-Rail three-phase multifunction power meter can be externally connected to an open-ended Rogowski coil or a voltage-type CT to realise testing without dismantling the wiring, which simplifies the testing process and effectively saves construction costs. The meter is compatible with three-phase three-wire and three-phase four-wire systems; it is capable of measuring a wide range of electrical parameters such as current, voltage, power factor, harmonics, power, electrical energy, etc., in three-phase grids A, B and C. The ME430 is also available in zero sequence detection and temperature detection versions.

The ME430 is equipped with RS485 and Ethernet interfaces as standard, supports Modbus-RTU and Modbus-TCP protocols, and is compatible with a wide range of configuration systems, enabling real-time transmission of collected electrical parameters to the system data centre.

1.1 Model naming rules

The meter adopts the external power supply mode. The default power supply voltage range is: 95~265VAC/110~260VDC, 45~60Hz, or can be customized 24V DC, etc.



1.2 Parameters

Summary			
Model	ME430		
Typology	Three-phase multi-function smart meter		
Type	DIN Rail type		
Characteristic			
Current Transformer	Suitable for wide current range, Voltage output current transformer, Rogowski coil		
Zero Sequence Current	Z series, support zero sequence current measurement		
Expansion Module	Supports extended IO control		
Power-down Protection	Uses a supercapacitor to power the real-time clock, no internal batteries		
Application			
Application area	Power analyses, electrical energy measurements, multi-circuit power parameter measurements, power data logging, temperature measurements, zero sequence current measurements		
Wiring system			
Wiring	3P4W 4CT, 3P4W 3CT, 3P3W 3CT, 3P3W 2CT, 1P3W, 1P2W		
Current	Rogowski Coil, mV, mA type current clamp		
Voltage	Direct access via voltage transformer		
Storage			
Type	Built-in eMMC		
Capacity	Default 1GB		
Data export	Built-in FTP server, can use FTP software FileZilla to export data		
Communication			
RS485 communication	One RS485 communication interface, Interface type: two line half duplex Communication rate: 2400bps~115200bps Protocol: Modbus-RTU		
Ethernet communication	The whole way is RJ45-Ethernet Protocol: Modbus-TCP		
Supply electricity			
Power supply	2: 95-265VAC	3: 5-30VDC	8: 90-528VAC
Maximum power dissipation	5VA		
Display			
Screen Size	2.0 inch		
Screen Type	TFT color LCD display		
Resolution	320*240		
Mechanical			
Size	L*W*D: 9.0*8.9*6.6cm		
Weight	300g		
Ambient condition			

Operating temperature range	Temperature -20°C ~+70°C, humidity below 90% RH
Storage temperature range	Temperature -40°C to +70°C, humidity below 95% RH (non-condensing)
Height	≤2km
Overvoltage capability	CAT III 600V
Pollution prevention level	IP30
Warranty	
Warranty Time	12 months

1.3 Data display

Instantaneous value	
Phase voltage	U1, U2, U3, AVG, U0 (zero sequence voltage)
Line voltage	U12,U23,U31,AVG
Current	I1, I2, I3, AVG, In, I0 (zero-sequence current)
Grid frequency	F1, F2, F3, Σ (comprehensive)
Power factor PF	PF1, PF2, PF3, Σ (comprehensive)
Base power factor DPF	DPF1, DPF2, DPF3, Σ (comprehensive)
Active power	P1, P2, P3, Σ (total)
Reactive power	Q1, Q2, Q3, Σ (total)
Apparent output	S1, S2, S3, Σ (total)
Energy (When the total power 10 ⁹ reaches 1.0 xkWh, the power of each phase will be automatically cleared to zero)	
Active energy Pos.	EP1, EP2, EP3, Σ (total)
Active Energy Neg.	EP1, EP2, EP3, Σ (total)
Reactive Energy Pos.	EQ1, EQ2, EQ3, Σ (total)
Reactive energy Neg.	EQ1, EQ2, EQ3, Σ (total)
Apparent Energy	ES1, ES2, ES3, Σ (total)
Tariff Energy	ET1,ET2, ET3,ET4, ET5,ET6
Harmonic wave	
Percentage of voltage harmonics	Total harmonic (U1, U2, U3), odd order total harmonic (U1, U2, U3), even order total harmonic (U1, U2, U3) Subharmonics 1-50 (U1, U2, U3)
Percentage of current Harmonics	Total harmonic (I1, I2, I3), odd order total harmonic (I1, I2, I3), even order total harmonic (I1, I2, I3), K coefficient (I1, I2, I3) Subharmonic 1-50 (I1, I2, I3)
Voltage harmonic value	Total harmonic (U1, U2, U3) Subharmonics 1-50 (U1, U2, U3)
Current harmonic value	Total harmonic (I1, I2, I3) Subharmonics 1-50 (I1, I2, I3)
Phase diagram	
Phase diagram	Phase diagram between voltage and current is shown
Phase sequence	Voltage, current

Voltage Angle	U1,U2,U3
Current Angle	I1,I2,I3
Voltage Angle	UI1,UI2,UI3
Demand	
Demand	There is always the total reactive power, the total reactive power, the total apparent power
There is always a maximum power demand	Maximum demand and time
Maximum total active power demand	Maximum demand and time
The total view is the maximum power demand	Maximum demand and time
Degree of unbalance	
Voltage imbalance	Negative sequence, zero sequence
Current imbalance	Negative sequence, zero sequence
Maximum and minimum values	
Phase voltage	Each is related to the average
Line voltage	Each is related to the average
Current	Each is related to the average
Active power	The sum of all the parts
Reactive power	The sum of all the parts
Apparent output	The sum of all the parts

1.4 Accuracy and certification

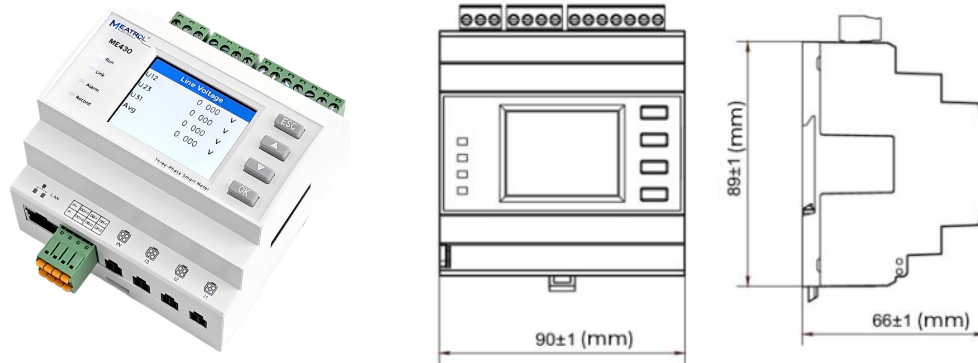
Accuracy of measurement	
Current measurement accuracy	0.1%(0-420mV AC)+ current sensor accuracy
Voltage measurement accuracy	±0.2%(0~720V AC)
Grid frequency	±0.01%(45~65Hz)
Power factor	±0.005
Active power and apparent power	IEC62053-22 Grade 0.5S
Reactive power	IEC62053-24 Grade 1S
Active energy	IEC62053-22 Grade 0.5S
Reactive energy	IEC62053-24 Grade 1S
Ambient condition	
Operating temperature range	-20℃~+70℃
Storage temperature range	-40℃~+85℃
Humidity range	5~95% RH, 50℃ (no condensation)
Class of pollution	2
Overvoltage capability	III. Suitable for distribution systems below 277/480VAC
Insulation strength	IEC61010-1
EMC (Electromagnetic Compatibility)	
Electrostatic discharge	Level IV(IEC61000-4-2)
Radiation immunity	Level III (IEC61000-4-3)

EFT electrical fast pulse group immunity	Level IV (IEC61000-4-4)
Wave surge resistance	Level IV (IEC61000-4-5)
Conduction resistance to harassment	Level III (IEC61000-4-6)
Industrial frequency magnetic field immunity	0.5mT (IEC61000-4-8)
Conduction and radiation	Class B (EN55022)
metric	
EN 62052-11, EN61557-12, EN 62053-21, EN 62053-22, EN 62053-23, EN 50470-1, EN 50470-3, EN 61010-1, EN 61010-2, EN 61010-031, GB/T 18216.12—2025/IEC 61557-12:2021	

Note: rdg.: read value, F.S.: full scale

2 Wiring

2.1 Dimensions



2.2 Buttons & indicator lights

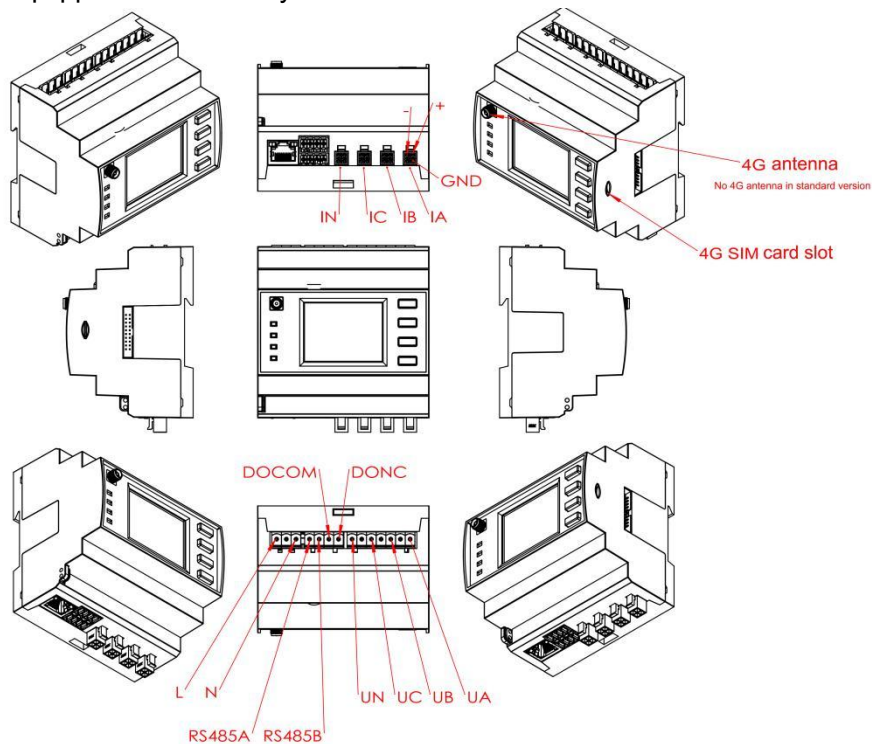
ME430 features four buttons and four indicator lights, with the following functional definitions:

Button		Function
	Return	To exit the current interface
	Up	For switching pages or data
	Down	For switching pages or data
	Confirm	Used to access sub-interfaces or confirm data modifications

Indicator lights	Function
Run	Indicates whether the equipment is operating normally. When functioning correctly, the indicator light flashes.
Link	Indicates RS485 communication; the indicator flashes when the device is receiving or transmitting data.
Alarm	Indicates alarm output; when an alarm occurs, the indicator illuminates.
Record	Used to indicate status; when data logging is activated, this indicator flashes.

2.3 Interface definitions

The meter is equipped with a variety of interfaces to achieve different functions.



Interface number	Interface name	Interface definition	Interface type	Remarks
1	L/+	power input +	Power port	When alternating current is supplied, there is no polarity. When direct current is supplied, pay attention to the positive and negative polarity.
2	NC	empty		
3	N/-	power input -		
4	R0	The relay outputs dry contacts	Electric relay	
5	R1			
6	A	RS485 A	RS485	RS485 communication
7	B	RS485 B		
8	VN	N-phase voltage input	Voltage input port	Voltage input channel
9	NC	empty		
10	V3	C-phase voltage input		
11	NC	empty		
12	V2	B-phase voltage input		
13	NC	empty		
14	V1	A phase voltage input		
-	LAN	RJ45 Ethernet	RJ45 port	Ethernet communication
-	IA-IN	Current input	MOLEX port	Current input channel

2.4 Supply electricity

The meter adopts the external power supply mode. The default power supply voltage range is: 95~265VAC/110~260VDC, 45~60Hz, or can be customized 24V DC, etc.

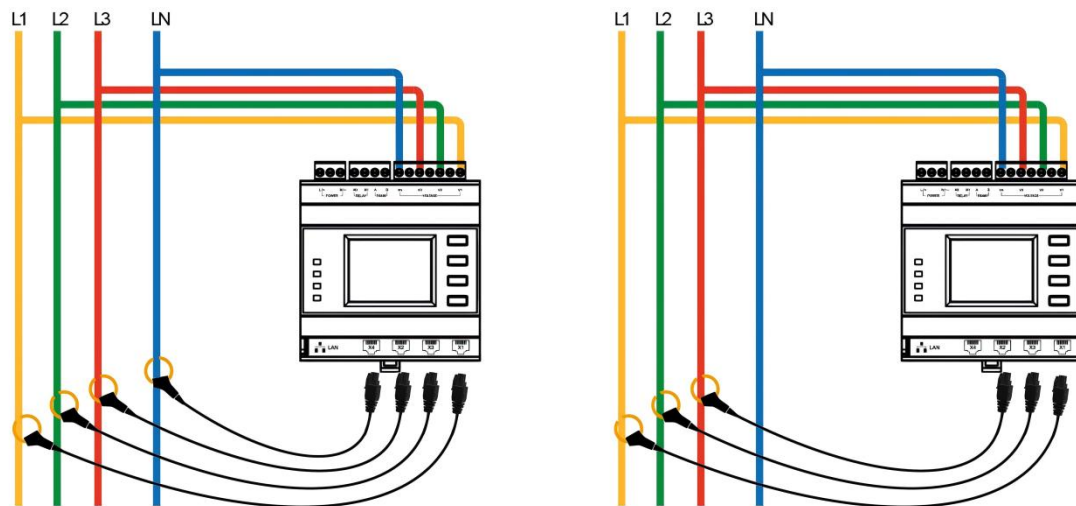
- Do not connect the meter while the cable is live
- Before connecting the power supply, it is necessary to confirm whether the power voltage is within the required range, otherwise the electricity meter can not work normally

2.5 Voltage and current input

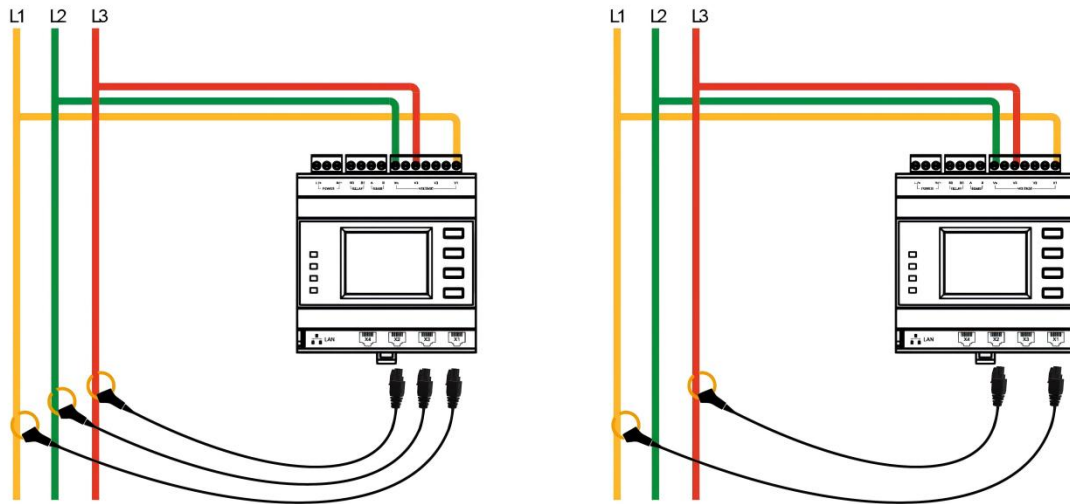
The meter supports three types of wiring: 3-phase four-wire 4CT (3P4W_4CT), 3-phase four-wire 3CT (3P4W_3CT), 3-phase three-wire 3CT (3P3W_3CT), 3-phase three-wire 2CT (3P3W_2CT), one-phase three-wire (1P3W), and one-phase two-wire (1P2W)

- The actual wiring mode of the meter must be consistent with the wiring mode configured inside the meter
- Three-phase four-wire 4CT (3P4W_4CT) requires four current sensors, and the current of N phases is measured through the sensors
- Three-phase four-wire 3CT (3P4W_3CT) requires three current sensors, and the current of N phases is calculated
- Three-phase three-wire 3CT (3P3W_3CT) requires three current sensors, and the current of phase B is measured by the sensor
- Three-phase three-wire 2CT (3P3W_2CT) requires two current sensors, and the current of phase B is calculated
- The phase sequence of voltage and current must be in accordance with the ABC phase sequence, otherwise the meter will show the wrong phase sequence of voltage and current
- When using a current sensor, note that the direction of the current arrow on the sensor must be consistent with the actual current flow, that is, the arrow on the sensor connector points to the load end

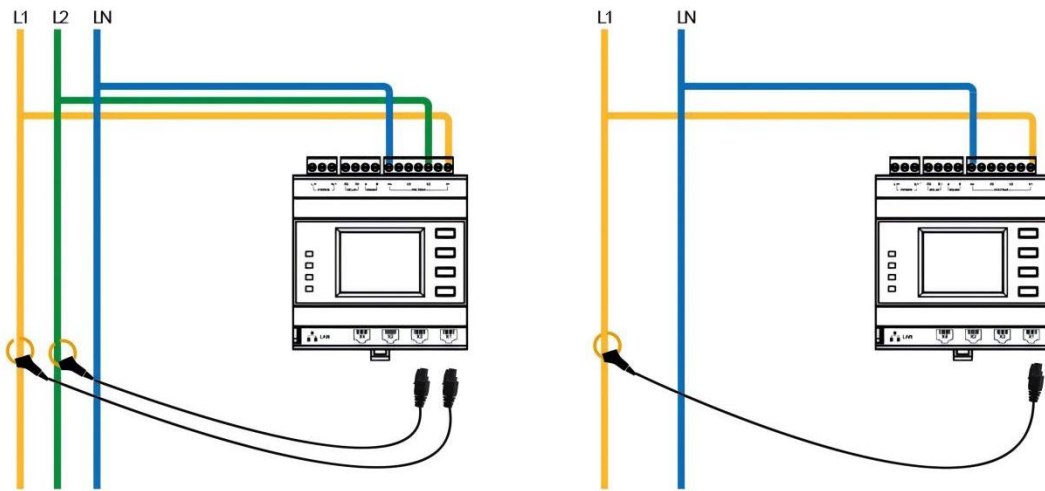
the circuit voltage and current wiring mode is as follows:



Three-phase four-wire 4CT three-phase four-wire 3CT
Three-phase four-wire 4CT three-phase four-wire 3CT



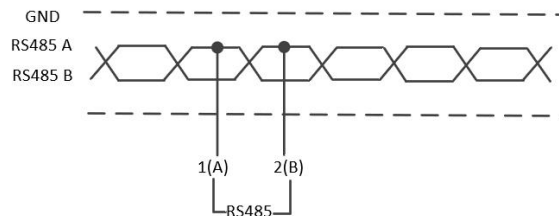
Three-phase three-wire 3CT and three-phase three-wire 2CT
Three-phase three-wire 3CT and three-phase three-wire 2CT



One phase, three lines, one phase, two lines
One phase three line, one phase two line

2.6 RS485

The meter is equipped with a RS485 communication interface, which supports the ModBus-RTU protocol. The RS485 communication port requires the use of shielded twisted pair cable connection in the form of chrysanthemum chain. In the case of long distance and high speed, a 120Ω resistor should be connected in parallel at both ends of the chrysanthemum chain.



2.7 Ethernet ETH

Equipped with a LAN communication interface supporting Modbus-TCP, with built-in web server and FTP server.

Modbus-TCP is used for reading real-time meter data.

The built-in web server displays data in a browser.

The FTP server handles data download logging.

When communicating via LAN between a computer and the meter, two connection methods are available:

1. Direct connection



When the computer and electricity meter are directly connected, both must be configured with static IP addresses. After configuring the IP addresses for the meter and computer, you can perform Modbus-TCP communication, access the web interface, and download FTP data on the computer based on the meter's IP address.

Electric Meter Static IP Configuration:

- The electric meter ships with a default static IP address: 192.168.1.31, Subnet Mask: 255.255.255.0
- The device IP and subnet mask can be configured within the meter's communication interface.

2. Connection through a router.



When the computer connects to the electricity meter via a router, both the computer and meter receive IP addresses assigned by the router.

After configuring the IP addresses for both the meter and computer, you can perform Modbus-TCP communication, access web pages, and download FTP data on the computer using the meter's IP address.

• **Obtaining the Meter's Dynamic IP:**

The meter ships with a static IP by default. To obtain a dynamic IP, navigate to "Settings -> Communication -> LAN" and change the DHCP setting from Disabled to Enabled.

Once DHCP is enabled, the meter will acquire an IP assigned by the router. The device's IP address can be viewed under "Device Information -> LAN".

• **Dynamic IP Acquisition for Computers:**

Computers typically obtain IP addresses dynamically. No modifications or configuration are required for the computer's IP address.

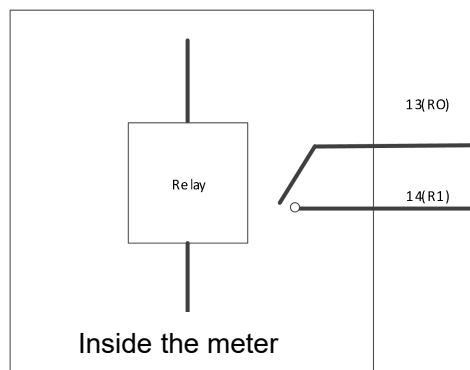
2.8 Relay output

The meter is equipped with a relay output, which is a normally open contact. The terminal is marked as R1 and R0, where R0 is the common contact and R1 is the normally open contact. The maximum load capacity of the relay is 3A 30V DC and 3A 250V AC

The meter display interface shows the closed state of the normally open contact of the relay.

There are two output control modes of the relay, which can be modified through the meter operation interface or Modbus.

Relay output control mode	explain
manual mode	Output through the operation interface of the electricity meter or Modbus control relay
Alarm mode	The relay output is controlled by the set alarm parameters



Relay Output Interface Connection Diagram

3 Function

3.1 Multi-tariff

The meter provides multi-tariff cumulative energy measurement functionality, supporting up to 6 different tariff .

Two tariff switching control modes are available, which can be modified via the meter's operation interface or Modbus.

Tariff Switching Control Mode Description

Manual Mode : Switch tariffs via the meter's operation interface or Modbus

RTC Mode : Trigger tariff switching based on RTC time periods

Tariff Switching Control Mode	Description
Manual mode	Switch tariffs via the meter's operation interface or Modbus
RTC mode	Trigger tariff switching based on RTC time periods

3.1.1 Manual control mode

Method 1: Switch the tariff through the meter setting interface "Settings-> Tariff-> Switch mode"

Method 2: Switch the tariff through Modbus configuration instruction 1071

3.1.2 RTC control model

In RTC control mode, tariff switching is triggered by the real-time clock.

The RTC control mode supports 6 time periods (Ta, Tb, Tc, Td, Te, Tf) and 6 tariff (T1, T2, T3, T4, T5, T6). Any tariff can be specified for the 6 time periods (Ta, Tb, Tc, Td, Te, Tf).

The time period and target tariff can be modified through the meter operation interface or Modbus.

The time period is set according to 24 hours, starting from Ta start time. Tc start time cannot be located between Ta start time and Tb start time, Td start time cannot be located between Ta start time and Tc start time, and so on.

3.2 Demand

The meter provides active power, reactive power, apparent power demand and maximum demand.

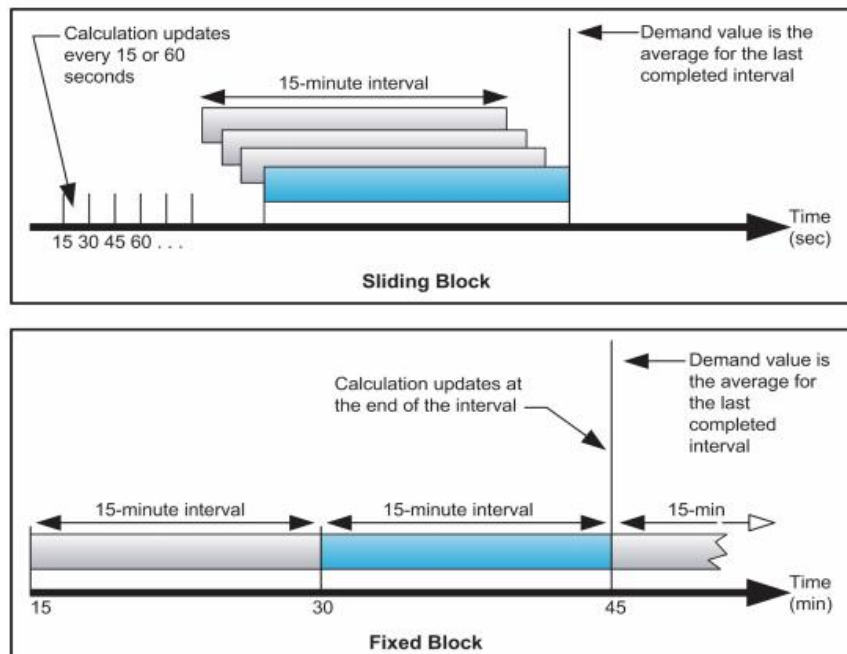
The required demand calculation method and required demand calculation interval can be configured through the meter operation interface or Modbus.

3.2.1 Demand calculation method

The meter supports two kinds of demand calculation methods: fixed and sliding.

Demand calculation method	explain
stationary type	The meter calculates and updates the demand at the end of each interval
Sliding type	Update the demand every minute

The following figure shows two methods of demand calculation, taking a demand interval of 15 minutes as an example:



3.3 Alarm

The meter provides a variety of alarm parameter Settings and alarm output, which can be configured through the meter setting interface or Modbus.

Type of alarm	explain
Overcurrent, phase by phase	An alarm is generated when the value exceeds the alarm threshold, When all the phases are less than the release threshold, the alarm is released
Phase-to-phase leakage current	An alarm is generated when the value exceeds the alarm threshold, When all the phases are greater than the release threshold, the alarm is released
Phase overvoltage, phase by phase	An alarm is generated when the value exceeds the alarm threshold, When all the phases are less than the release threshold, the alarm is released
Phase voltage, phase by phase	An alarm is generated when the value exceeds the alarm threshold, When all the phases are greater than the release threshold, the alarm is released
Overvoltage, phase by phase	An alarm is generated when the value exceeds the alarm threshold, When all the phases are less than the release threshold, the alarm is released
Low line voltage, phase by phase	An alarm is generated when the value exceeds the alarm threshold, When all the phases are greater than the release threshold, the alarm is released
Overpower, always active (absolute value)	
Overpower, total reactive power (absolute value)	
Overpower, total apparent	
Current demand, total active power (absolute value), current	
Current demand, total reactive power (absolute value), current	
Current demand, total apparent power, current	
Pass through THD-U, phase by phase	An alarm is generated when the value exceeds the alarm threshold, When all the phases are less than the release threshold, the alarm is released
Pass through THD-I, phase by phase	An alarm is generated when the value exceeds the alarm threshold, When all the phases are less than the release threshold, the alarm is released

3.3.1 Alarm output

The alarm output can be connected to the buzzer and relay (the relay control mode should be configured as the alarm mode). After the alarm is released, the corresponding output will also be released.

3.4 Phase sequence detection

The meter supports three-phase voltage and current phase sequence detection. The phase sequence can be viewed in the meter interface "Measure-> Phase diagram-> Phase sequence" or read through Modbus.

Phase state icon	explain
	Phase sequence correct
	The phase sequence is wrong The channel detected the signal, but in the wrong order
	The phase sequence is wrong Phase loss or weak signal

Note: The correct phase sequence of voltage and current can only ensure the correct phase sequence of their respective phases, but cannot guarantee the corresponding relationship between voltage and current, so attention should be paid to the wiring mode

3.5 Data recording/download

The meter has 122MB of built-in storage space, and the recording interval time can be set arbitrarily within the range of 5s to 9999s. Note that the setting cannot be modified during the recording period. Data can be downloaded during the recording period, but the current recorded data can only be downloaded after stopping the recording. The download must be done through FTP server or Web server.

3.5.1 Parameter Configuration

Recording-related parameters can be configured via the "Main menu->Data Recorder -> Pass word (3000) ->Recording Configuration" interface.

3.5.2 Data Download

The electricity meter has a built-in FTP server for downloading recorded data.

Data can be downloaded using the FTP software FileZilla.

- Install FileZilla software

FileZilla can be downloaded and installed from the website ([FileZilla - The free FTP solution](#)).

- Log in to the electricity meter's FTP server

The IP address of the electricity meter can be found under "Device Information -> LAN".

The port number, username, and password can be found under "Settings -> Communication -> FTP Server" on the electricity meter interface.

The recording interval can be set anywhere between 5 seconds and 9999 seconds. Note that settings cannot be modified during the recording period. Data can be downloaded during recording, but currently recorded data can only be downloaded after recording stops. Downloading requires access via the FTP server or Web server.

- Data Download

Select the file to download, right-click, and choose "Download" to save the log file locally.

3.6 Web Server

The meter incorporates a built-in web server for viewing meter data via a web browser. The meter's IP address can be found under "Device Information -> LAN". The web server uses port 80 by default, which can be modified in the meter interface under "Settings -> Password (1000) -> Communication -> Web Server".

Web server	
Admin name	admin
Admin password	admin
User name	

The Admin name and Admin password can be viewed in the meter interface under "Web Server".

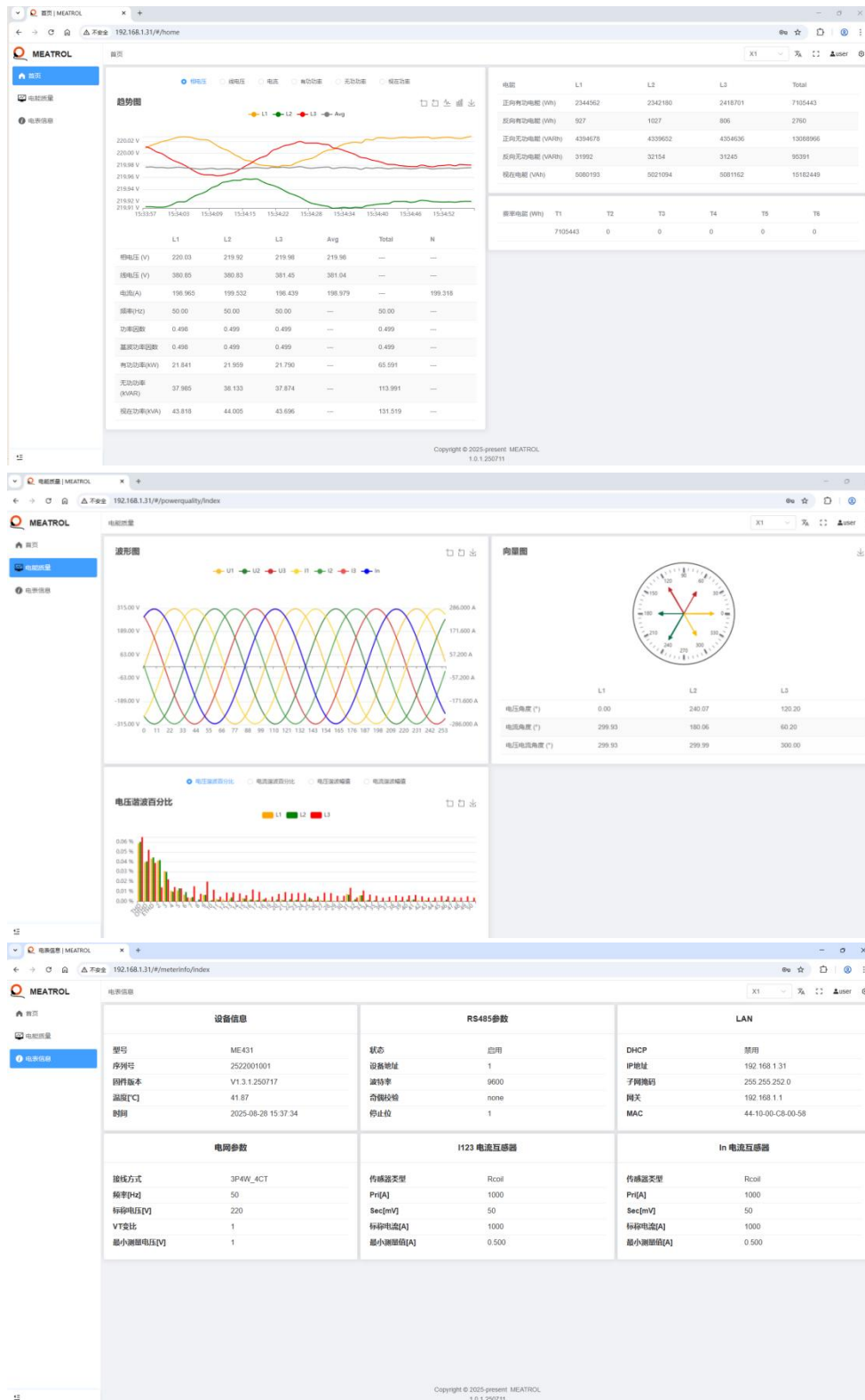
MEATROL

user

...

登录

In the website, enter the meter's IP address to access the login page, then input the name and password.



Data Viewing

Homepage: Displays basic data such as voltage, current, power, and energy consumption.

Power Quality: Shows waveform diagrams, harmonic data, and angle data.

Meter Information: Presents the meter's basic details.

4 Operation and interface display

This section describes the display of the interface, key combinations, and device configuration.

The four keys of the meter are as follows:

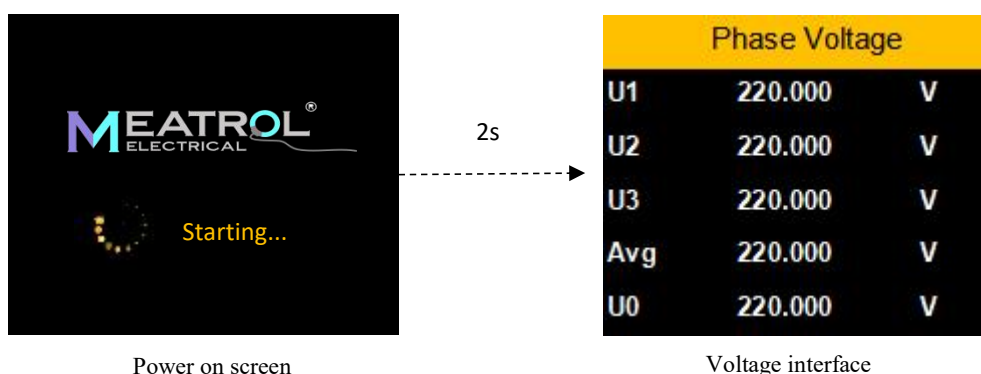


4.1 Key function display description:

Key symbols	description
	Return key: used to exit the current operation interface
	Up key: used to switch the interface display and change the value size when setting, long press can be shifted
	Down key: used to switch the interface display and change the value size when setting, long press can be shifted
	Confirmation key: used to confirm the operation

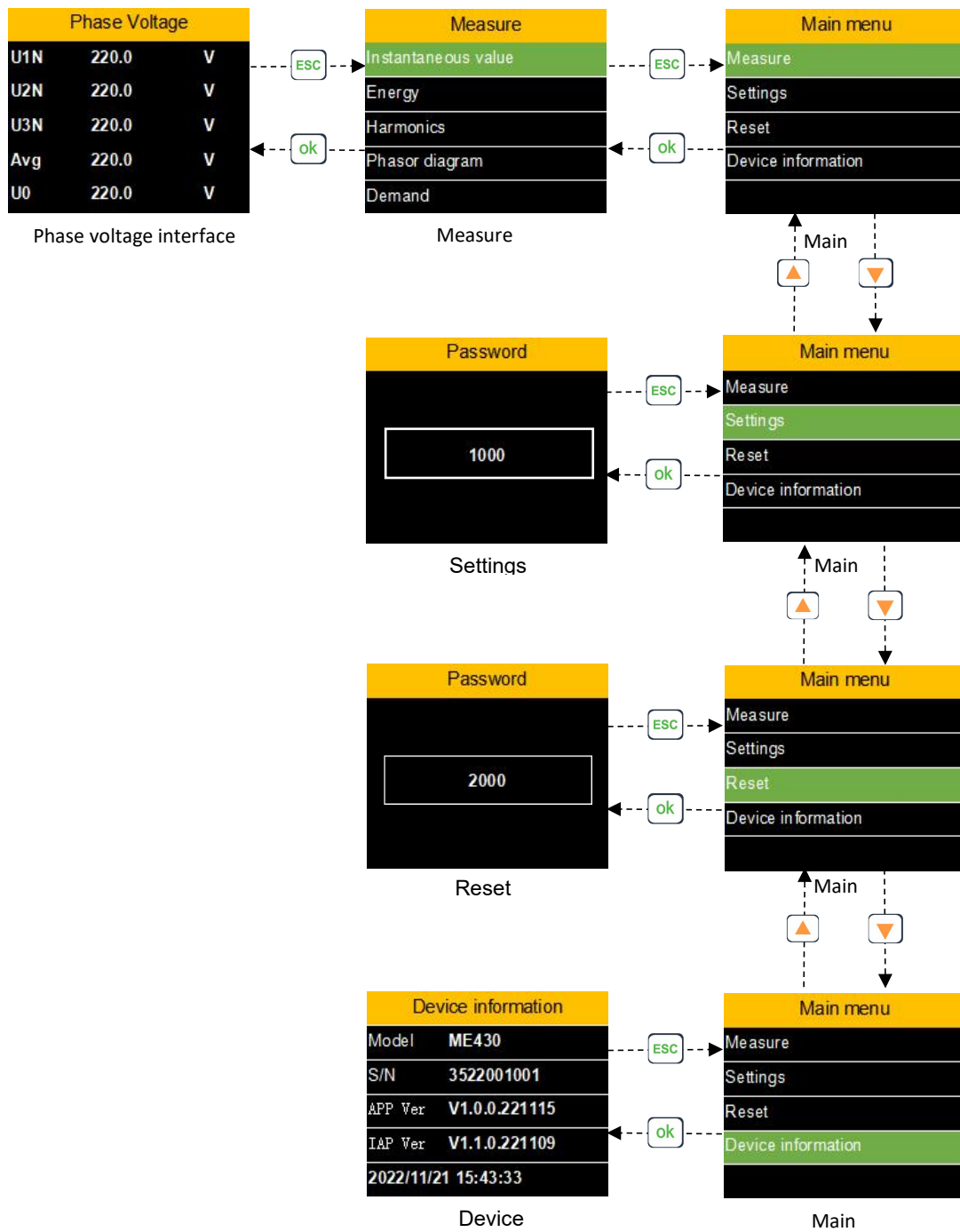
4.2 Meter start-up interface

After the power is started on the meter, the following interface will be displayed:



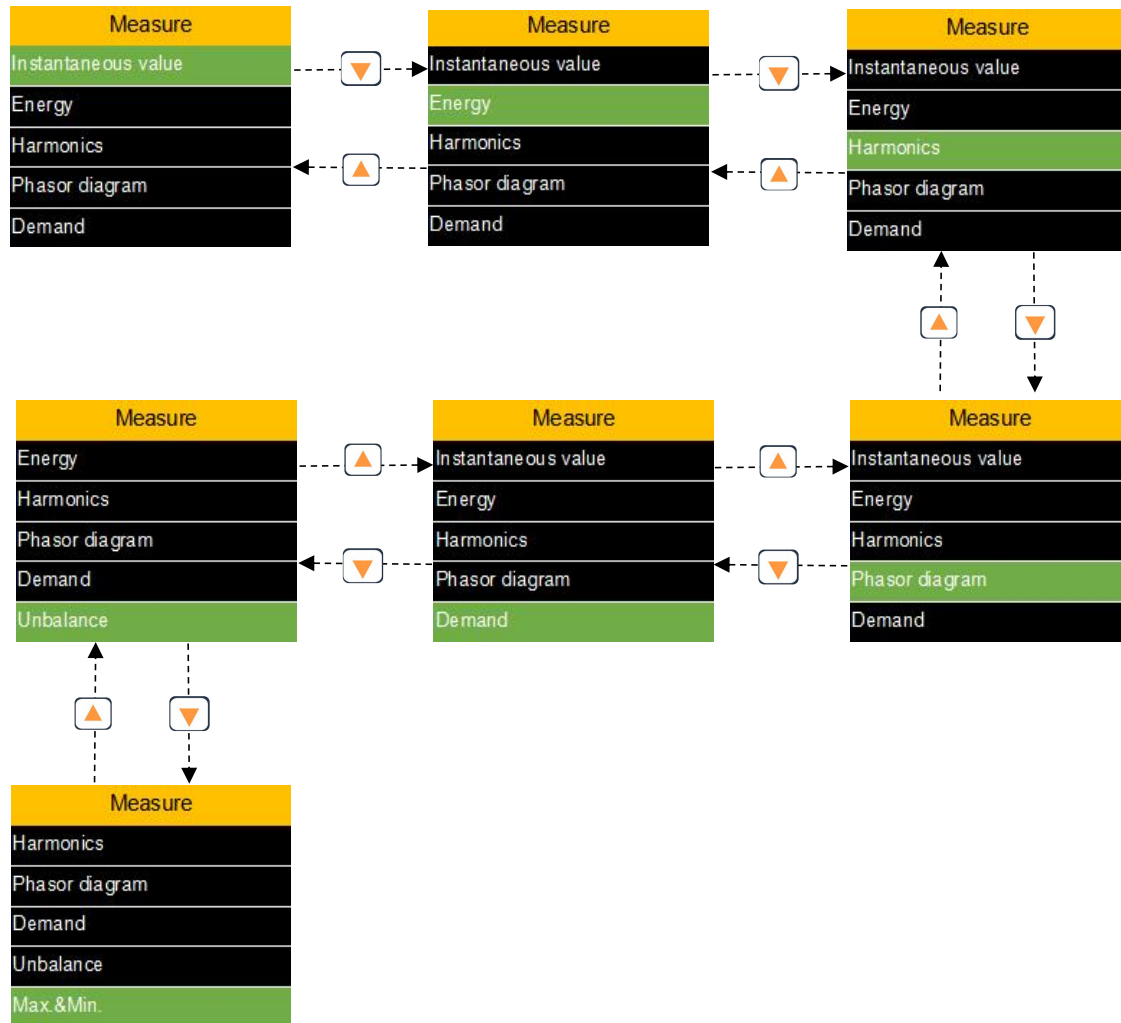
4.3 Switch the secondary menu

There are a total of 4 secondary menus under the main menu of the electricity meter: measurement menu, setting menu, reset menu and device information menu. The switching between menus is shown as follows:



4.4 Measure menu interface

There are 7 submenus in the measurement menu: instantaneous value, energy, harmonics, phase diagram, demand, unbalance, max&min. The selected content can be switched by pressing a  key or a  key.



4.4.1 Measure menu-Instantaneous value submenu

The instantaneous value submenu is used to display data such as voltage, current, power, power factor, frequency, etc.



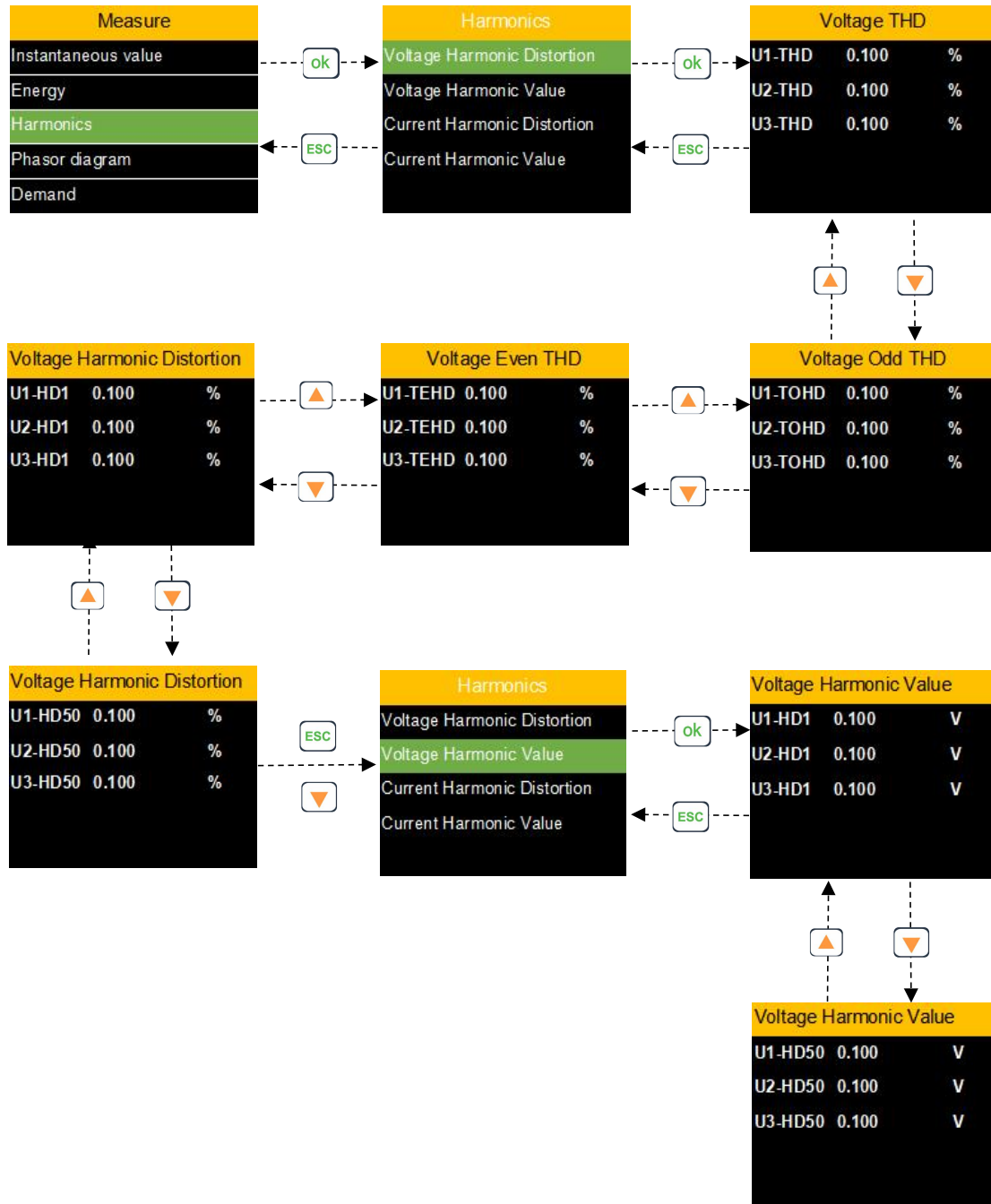
4.4.2 Measure menu-Energy submenu

The energy submenu is used to display data such as active power, reactive power and apparent power.



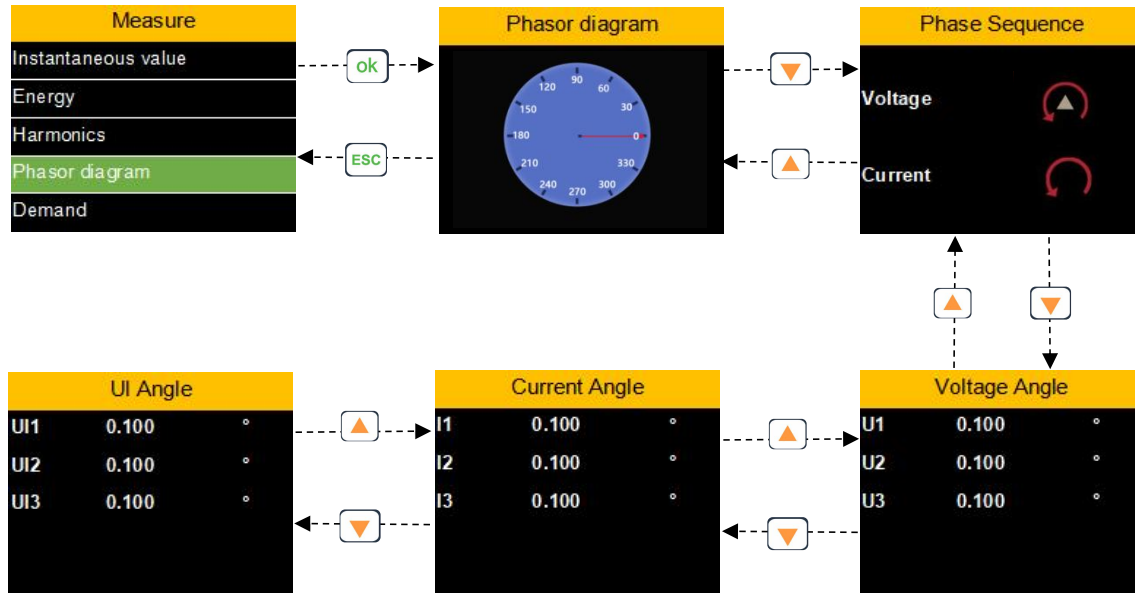
4.4.3 Measure menu-Harmonics submenu

The harmonics submenu is used to display data such as voltage harmonic and current harmonic.



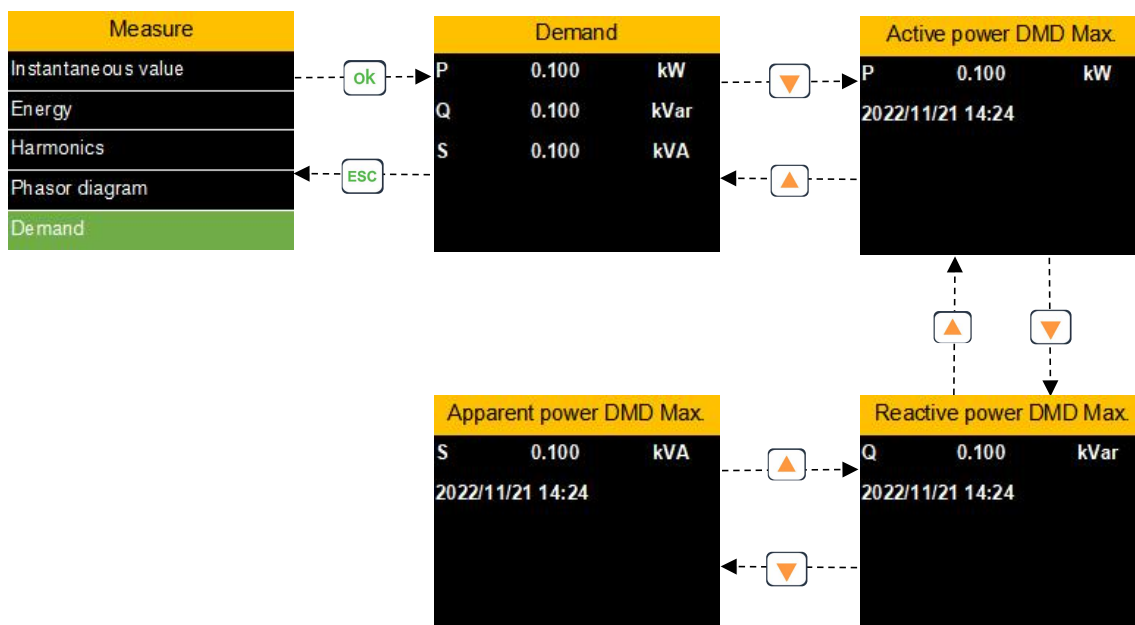
4.4.4 Measure menu-Phasor diagram submenu

The phasor diagram submenu is used to display data such as phase diagram, phase sequence, voltage Angle, and current Angle.



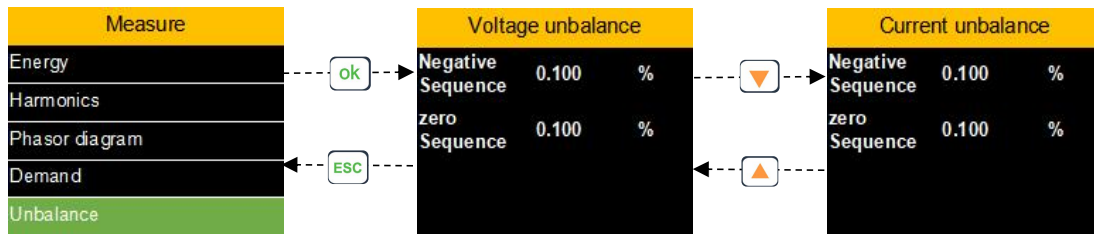
4.4.5 Measure menu-Demand submenu

The demand submenu is used to display data such as demand and maximum demand.



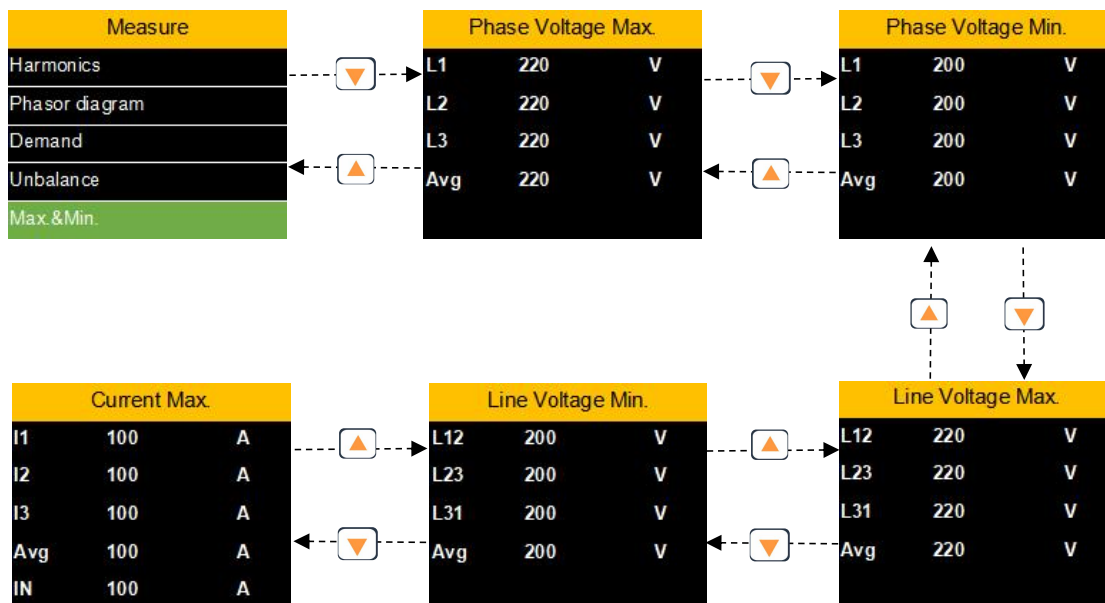
4.4.6 Measure menu-Unbalance submenu

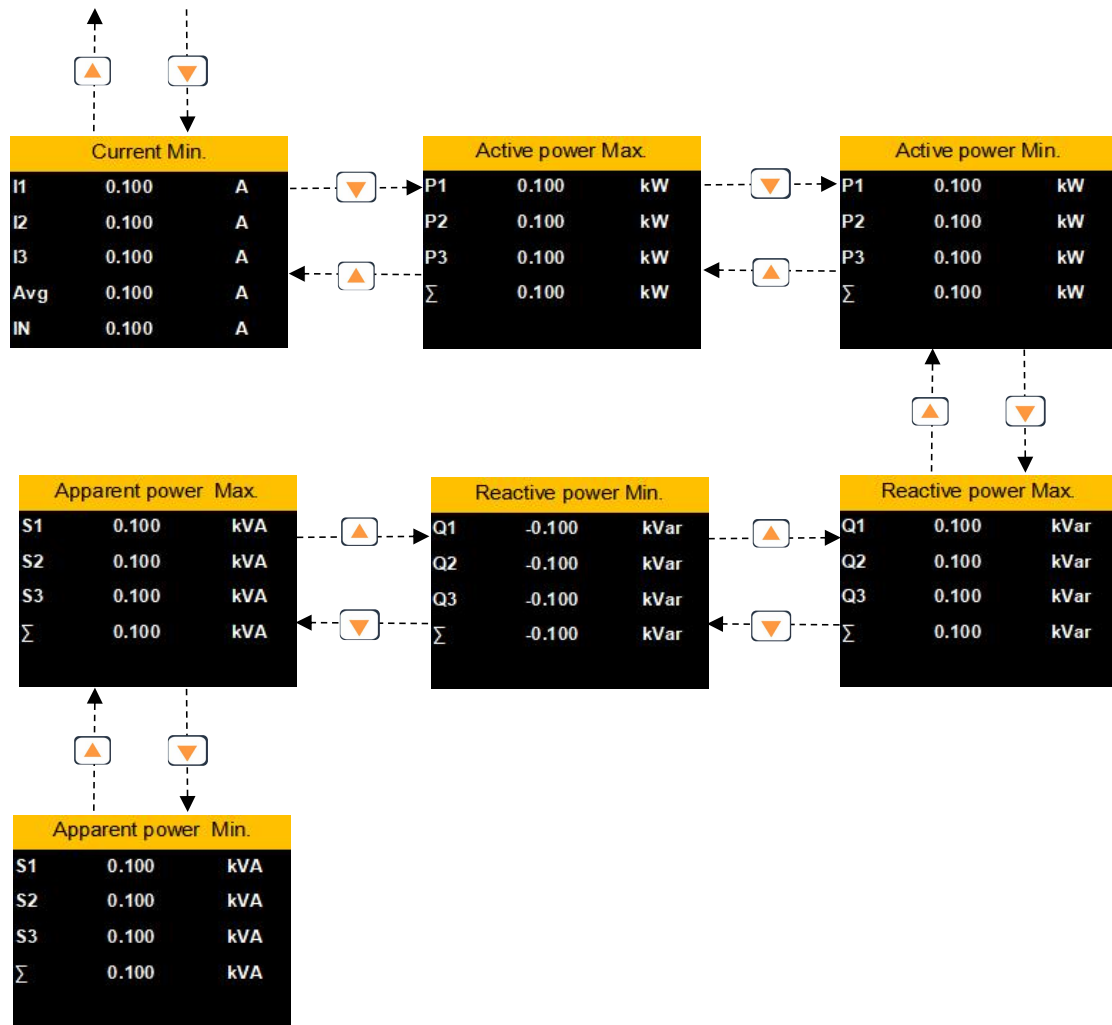
The unbalance submenu is used to display data such as voltage unbalance and current unbalance.



4.4.7 Measure menu-Max.&Min. submenu

The Max.&Min. submenu is used to display the maximum and minimum values of voltage, current, etc.





4.5 Settings menu interface

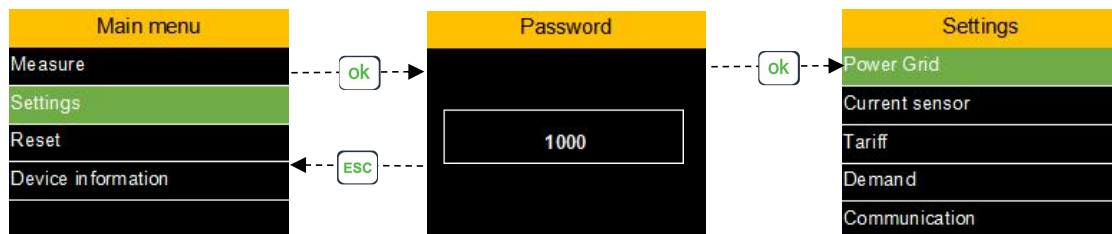
The settings menu is used to set: wiring mode, current sensor type and ratio, voltage transformer ratio, communication parameters, demand, backlight control, equipment time, password and other parameters.

Before entering the Settings page, you need to enter the password (default 1000).

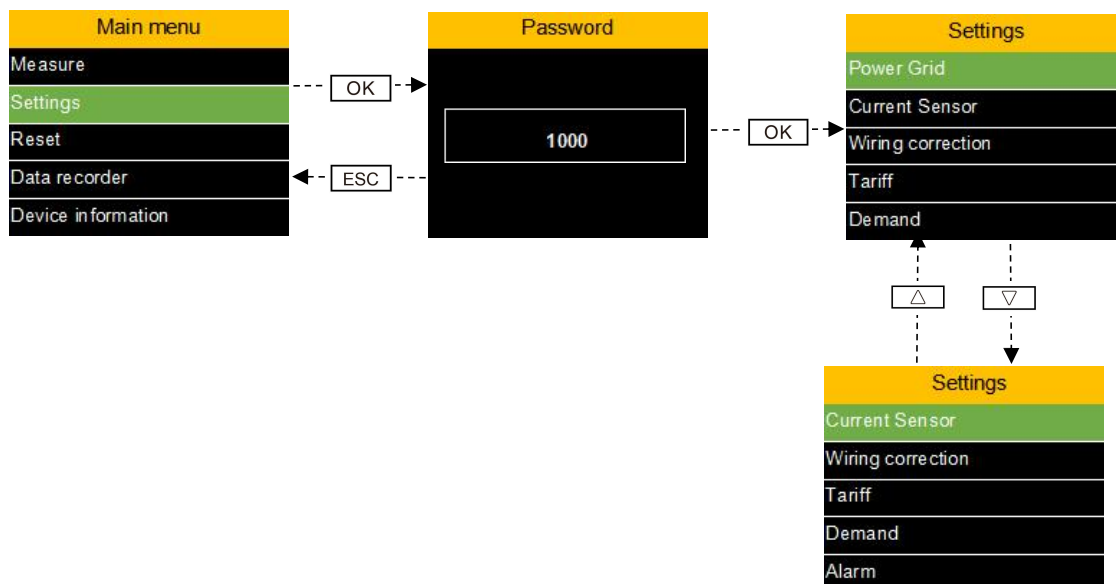
Press OK to enter the password input. Press ↑ or ↓ keys to modify the value size, and long press ↑ or ↓ keys to shift (the corresponding value will flash).

If the password is correct, pressing OK will enter the Settings interface.
If incorrect, remain in the password input interface.

If you forget the password, you can enter the last four digits of the device serial number to enter the Settings interface.



Use the ↑ key or ↓ key to switch the selected content, and use the OK key to enter the parameter setting.



4.5.1 Settings menu-Power Grid submenu

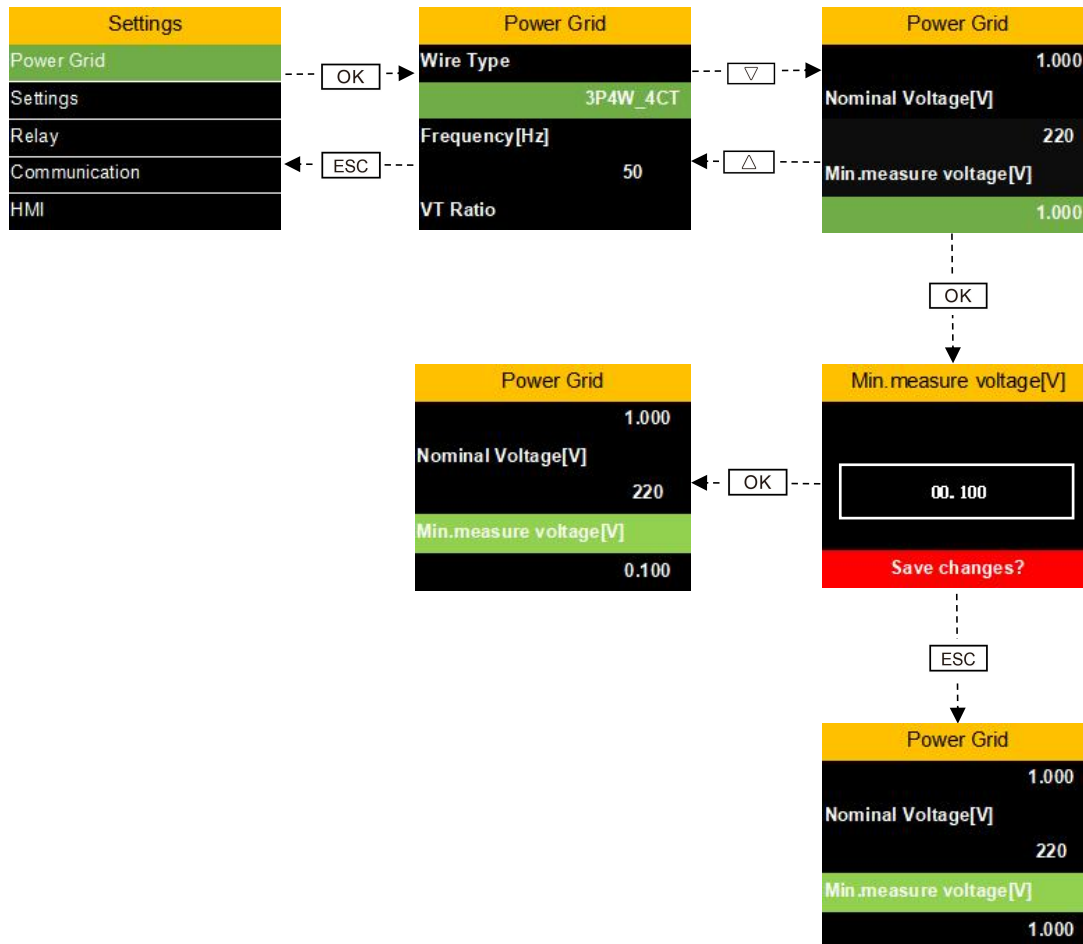
Wiring type: 3P4W-4CT\ 3P4W-3CT\ 3P3W-3CT\3P3W-2CT\1P3W\1P2W.

Frequency[Hz]: 50\60.

VT ratio can be configured from 1 to 10000 (primary terminal voltage/secondary terminal voltage value).

Nominal Voltage[V]:00001-65535

Min.measure voltage[V]:0.000-65.535



1.1.1 Settings submenu-Tariff submenu

The rate submenu can set the switching mode and rate selection.

Switch mode can be configured as manual or RTC

In RTC mode:

You can set the start time of 6 tariff, Ta, Tb, Tc, Td, Te and Tf, and the corresponding 6 tariff options.

In manual mode:

Only 6 tariff can be set: Ta, Tb, Tc, Td, Te and Tf, but the start time cannot be set



2.1.1 Settings submenu-Demand submenu

The demand submenu can set the method and interval (minutes).

Parameter name	Explain
computational method	Fixed: Update demand according to calculated time interval Sliding: Update demand every 1 minute
counting period	Unit: minutes Range: 1-60, default 15 minutes



3.1.1 Settings submenu-Alarm submenu

The alarm submenu can set the type, status, trigger threshold, release point, buzzer, relay.

Type: current over, current under, phase voltage over, phase voltage under, line voltage over, line voltage under, power P over, power Q over, power S over, power P DMD over, power Q DMD over, power S DMD over, THD-U over, THD-I .

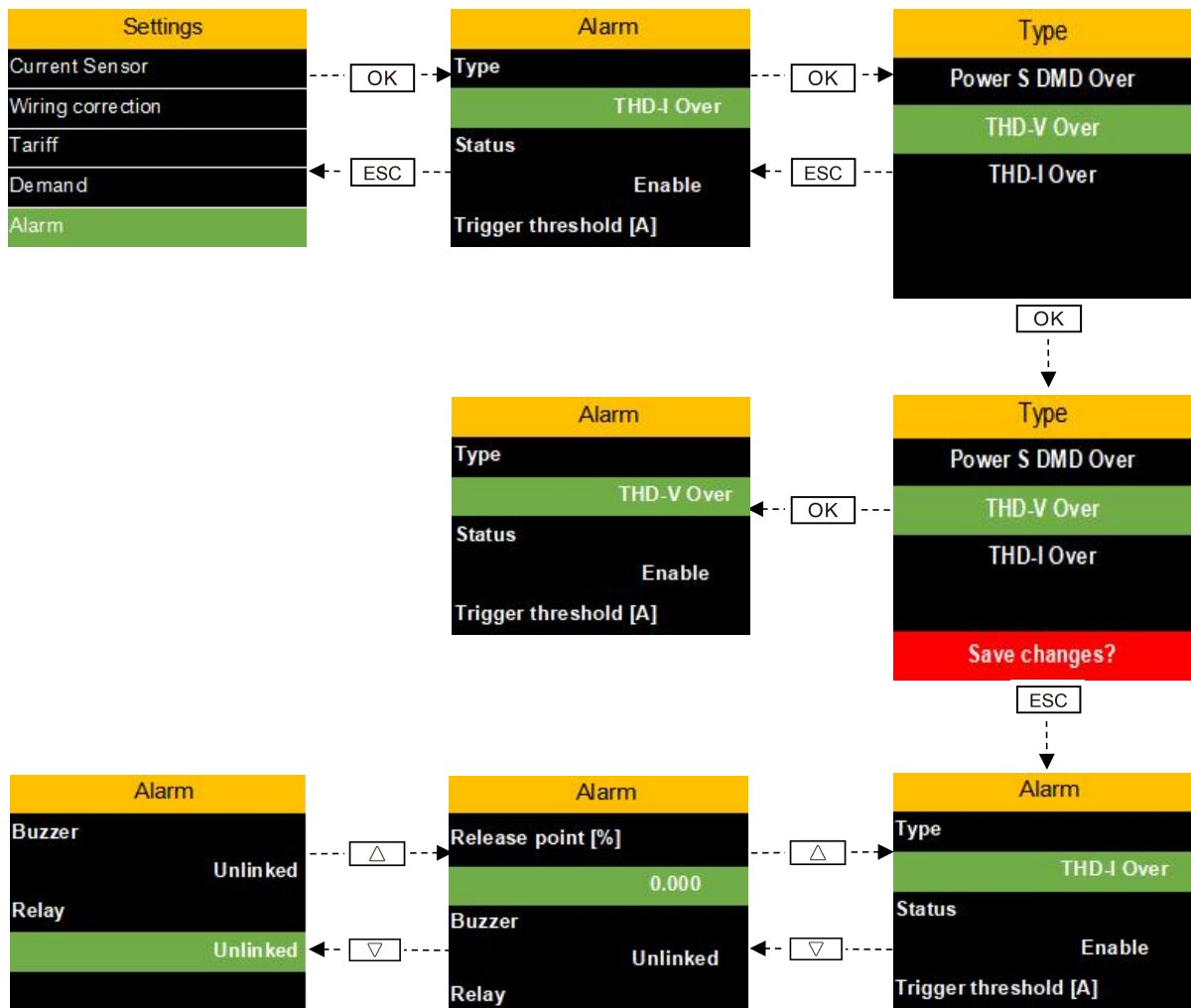
Status: disable \ enable

Trigger threshold [A] : 999999.999-000000.000

Release point [%]: 999999.999-000000.000

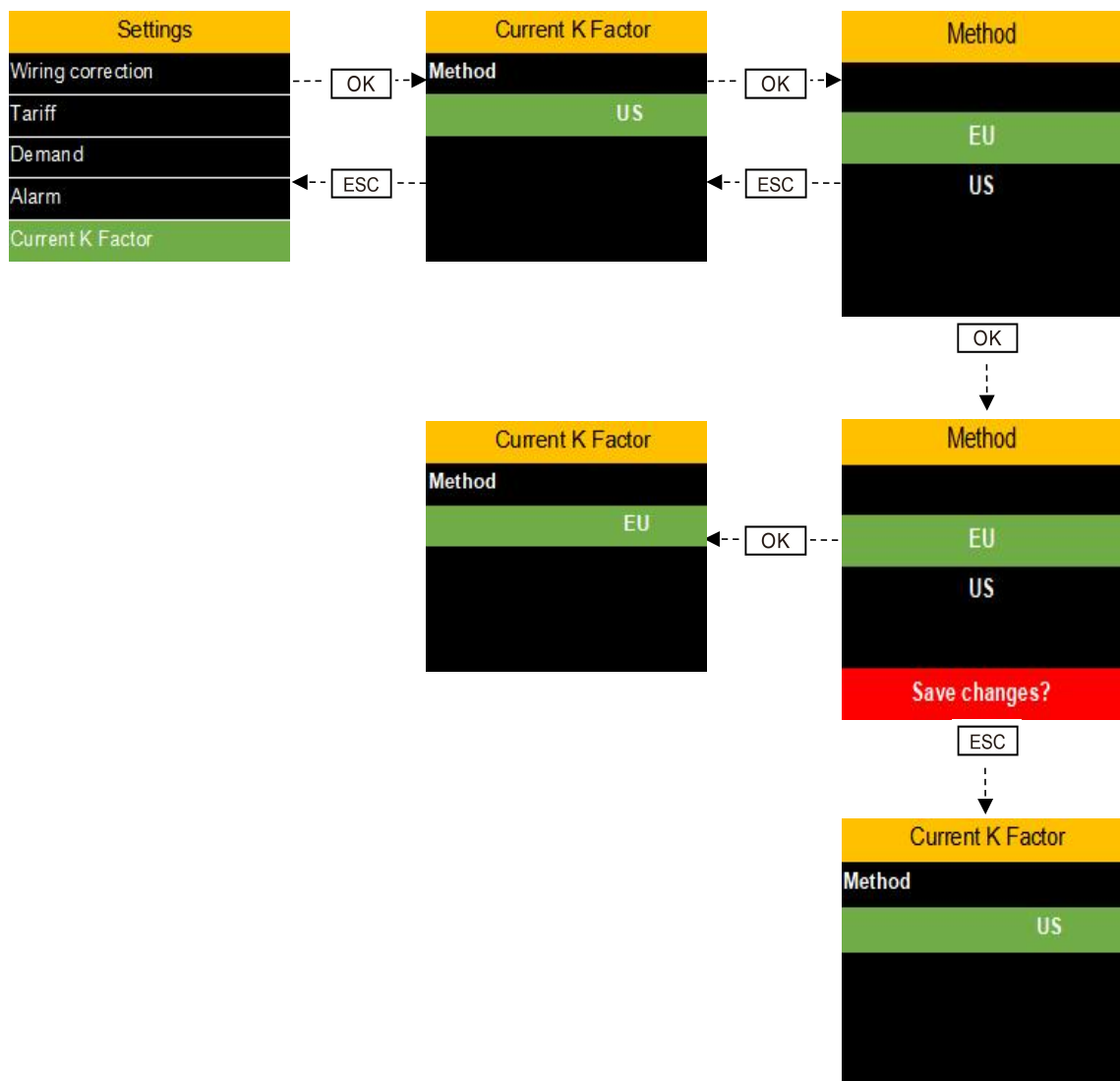
Buzzer: unlinked \ linked

Relay: unlinked\linked



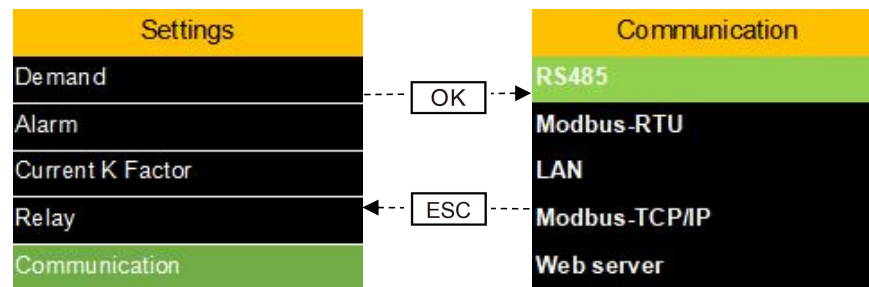
4.1.1 Settings submenu-Current K Factor submenu

The Current K Factor: US\EU.



4.5.5 Settings menu-Communication submenu

The communication submenu can set RS485, Modbus-RTU, LAN, Modbus-TCP/IP, Web server, FTP server.



1.1.1 Communication submenu-RS458 submenu

RS485 Settings submenu can set baud rate, parity, stop bits.

Baud rate [bps]:2400,4800,9600,19200,38400,57600,115200

Parity:none, odd, even

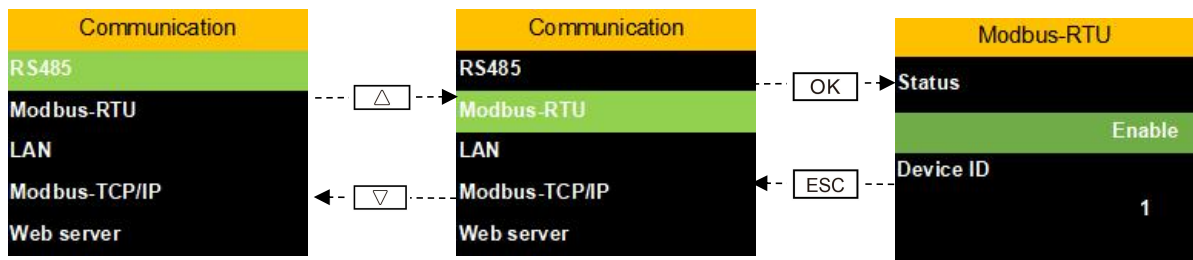
Stop bits:1\2



2.1.1 Communication submenu-Modbus submenu

Status: enable \ disable

Device ID:001-247



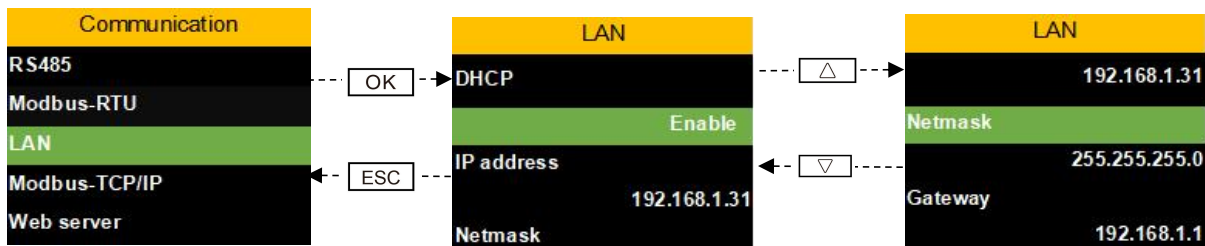
3.1.1 Communication submenu-LAN submenu

DHCP: enable \ disable

IP address:Configurable (user-adjustable)

Netmask:Configurable (user-adjustable)

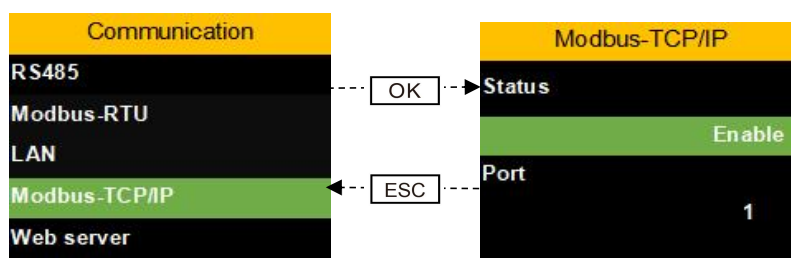
Gateway:Configurable (user-adjustable)



4.1.1 Communication submenu-Modbus-TCP/IP submenu

Status: enable \ disable

Port:Configurable (user-adjustable)



5.1.1 Communication submenu-Web server submenu

Status: enable \ disable

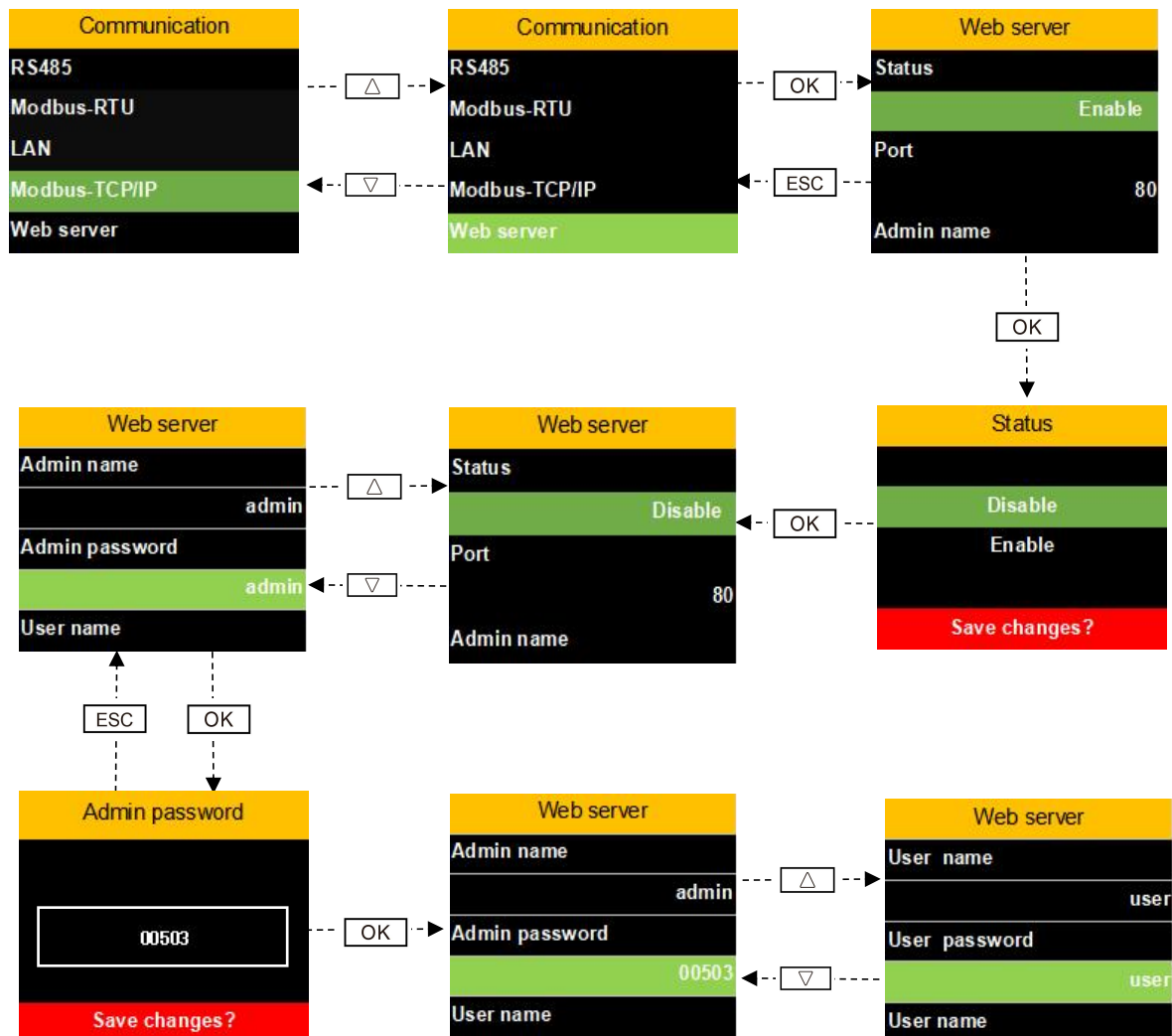
Port:Configurable (user-adjustable)

Admin name:Configurable (user-adjustable)

Admin password:Configurable (user-adjustable)

User name:Configurable (user-adjustable)

User password:Configurable (user-adjustable)



6.1.1 Communication submenu-FTP server submenu

Status: enable \ disable

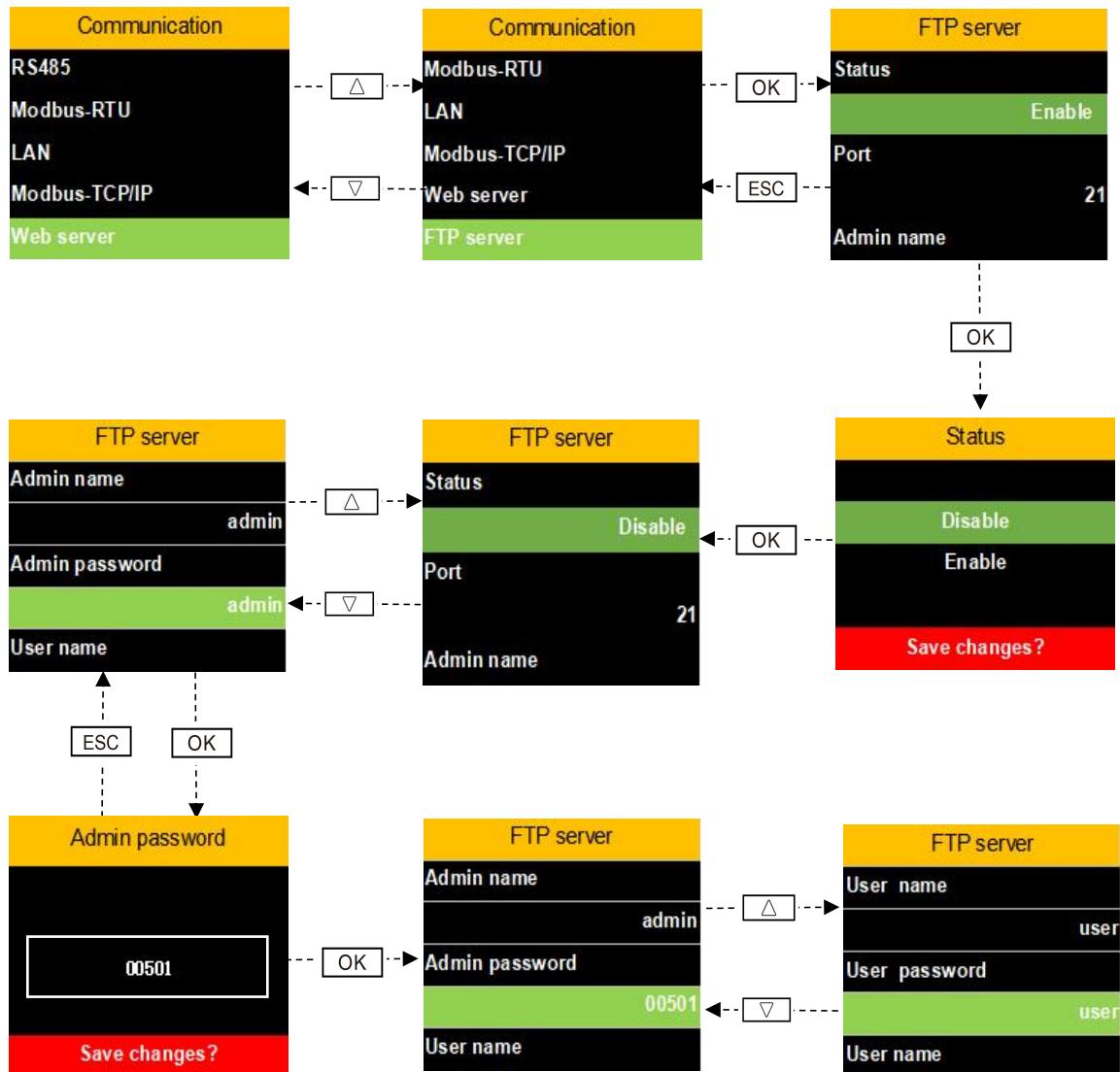
Port:Configurable (user-adjustable)

Admin name:Configurable (user-adjustable)

Admin password:Configurable (user-adjustable)

User name:Configurable (user-adjustable)

User password:Configurable (user-adjustable)



4.5.6 Settings menu-HMI submenu

The HMI submenu can set the language, clock, power-on sound, key tone, backlight off, backlight brightness.

Language: Chinese\ English\French\Polisch

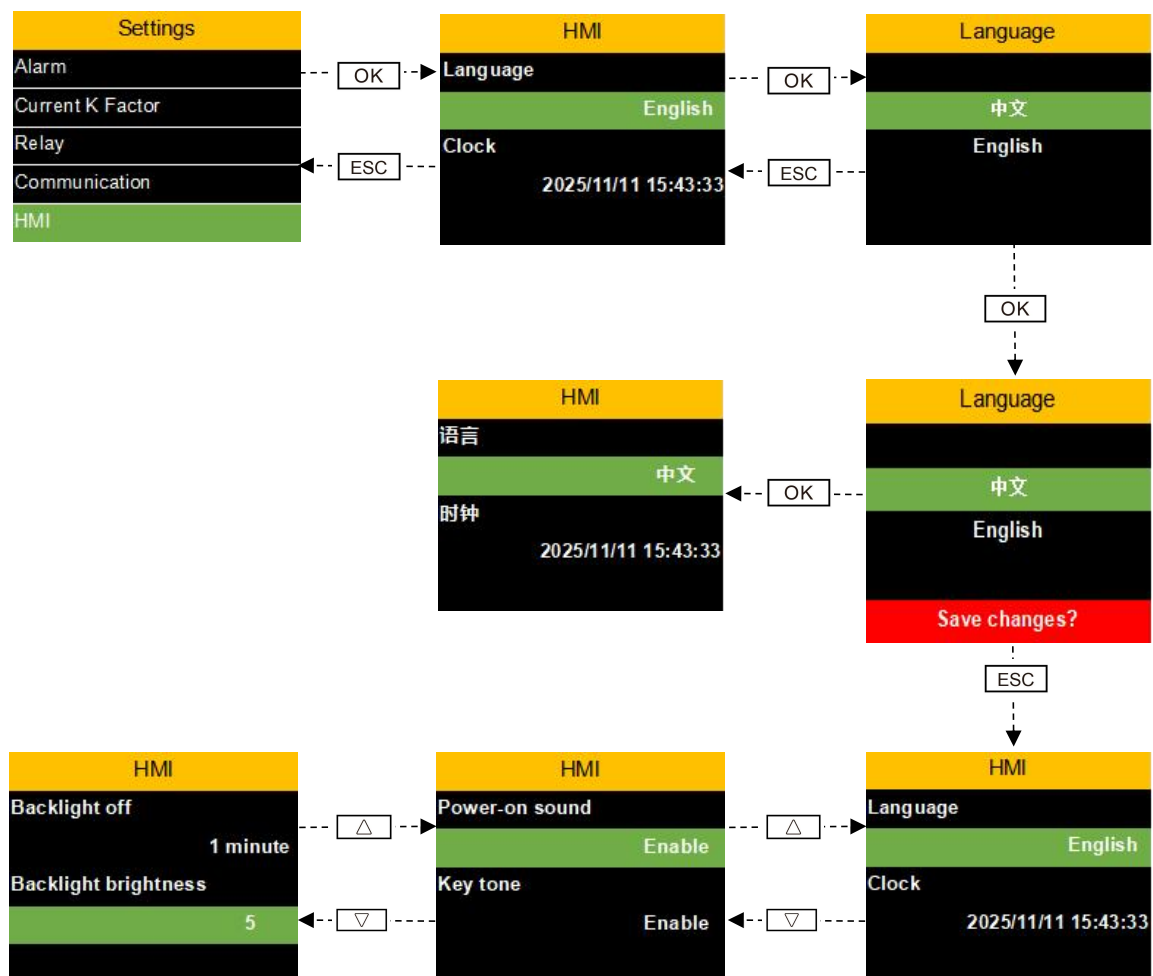
Clock : year/month/day hour: minute: second

Power-on sound: enable \ disable

Key tone: enable \ disable

Backlight off: never \ 1 minute \ 2 minutes \ 3 minutes \ 4 minutes \ 5 minutes

Backlight brightness: 1 to 5



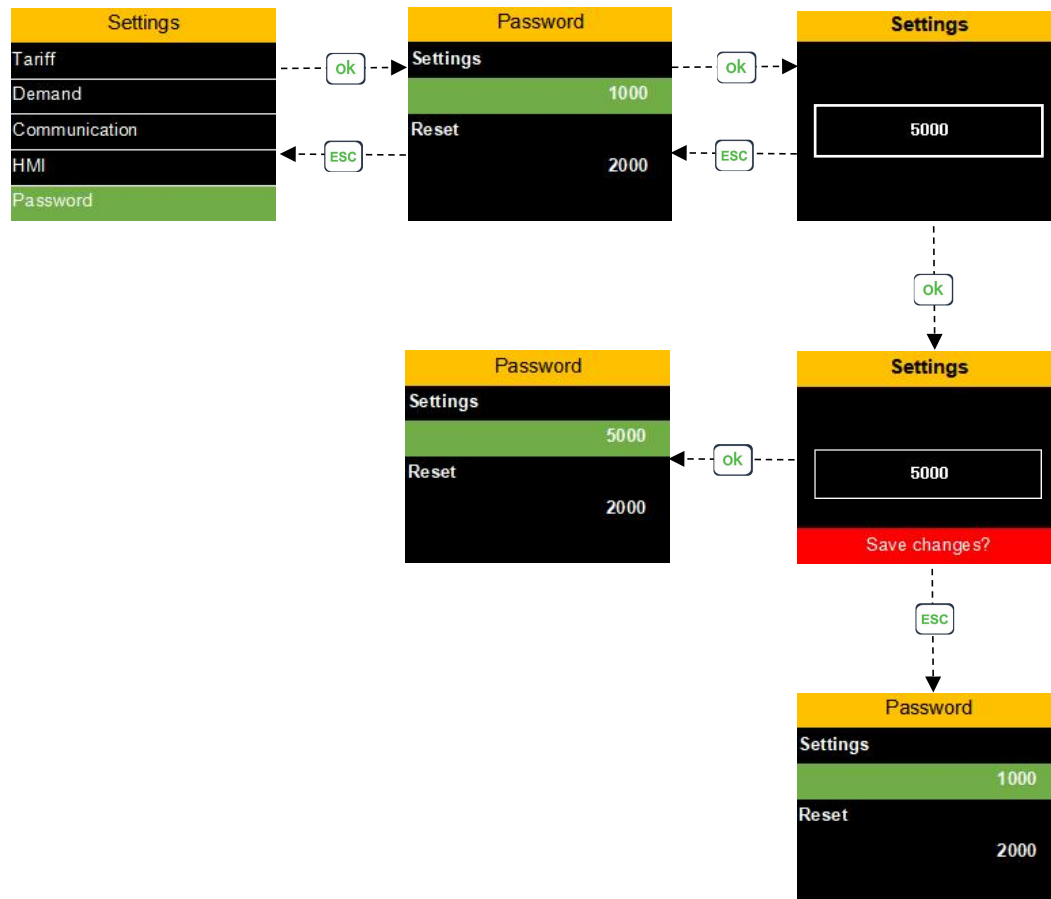
4.5.7 Settings menu-Password submenu

The password submenu can set the settings, reset, data recoder passwords.

Settings: default:1000, Configurable (user-adjustable)

Reset: default:2000, Configurable (user-adjustable)

Data recoder: default:3000, Configurable (user-adjustable)

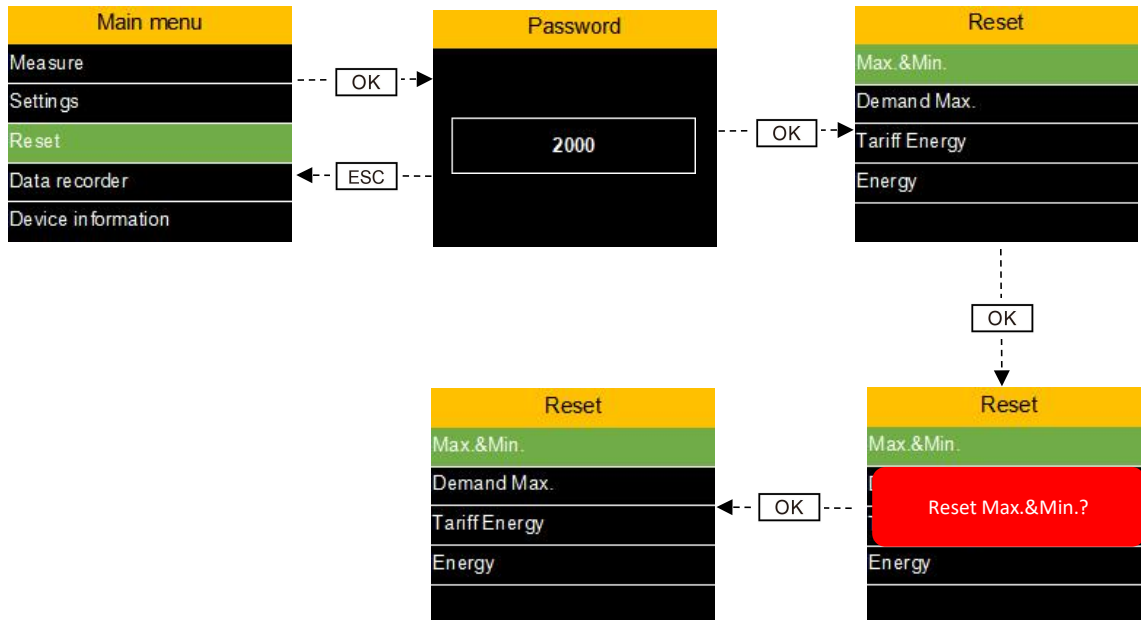


4.6 Reset interface

The reset menu is used to reset parameters such as maximum value minimum value, maximum demand, tariff energy, energy.

Before entering the reset page, you need to input the reset password (default: 2000).

If you forget the password, you can enter the last four digits of the device serial number to enter the reset interface.



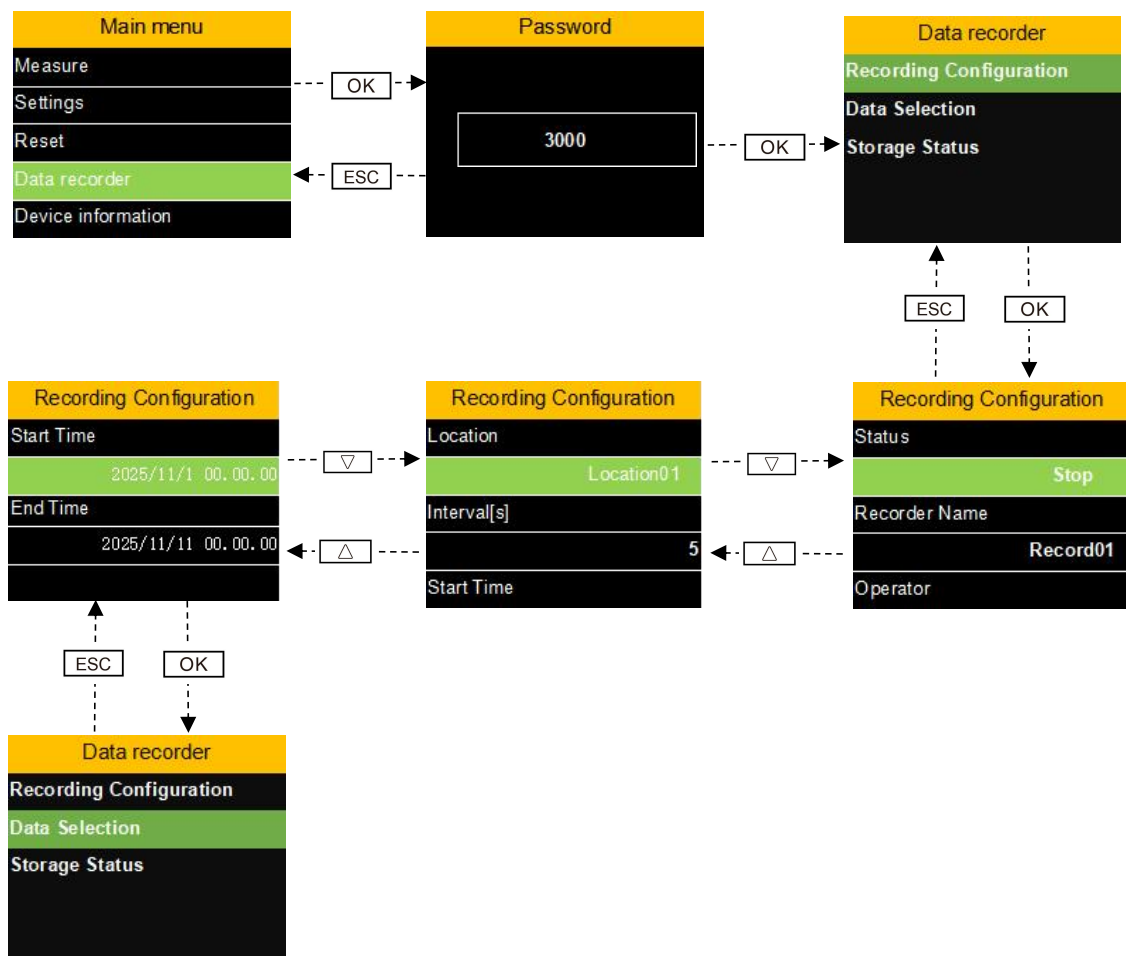
4.7 Data recorder interface

The data recorder menu is used for data recording. It can be set: status, recorder name, operator, location, start time, end time, and record interval.

Before entering the record page, you need to enter the reset password (default 3000), press OK to enter the password input.

If you forget the password, you can enter the last four digits of the device serial number to enter the reset interface.

Interval:5-9999s



4.8 Device information interface

The device information menu is used to display the device model, program version number, communication parameters, power grid parameters, device time and other data.

5 Revision History

Version	Date	Change	By
V0.2	2026/8/31	1. Correct the reference standard for reactive power energy measurement from the incorrect IEC 62053-21 Level 1S to IEC 62053-24 Level 1S.	Elysian

