

The product models and specifications published in this manual are for reference only, and everything is subject to the actual product and product description.

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OPERATION INSTRUCTIONS

- ▶ Three-phase current and three-phase voltage display table

Three-phase current and three-phase voltage display table

1. Performance Overview

- 1.1 Programmable intelligent three-phase power meter, capable of real-time measurement of three-phase voltage and current in equipment power lines. By installing different functional modules, switch input, switch output, analog transmission, and RS485 communication functions can be achieved.
- 1.2 The instrument displays in four digits with an accuracy of 0.5 level.
- 1.3 Adopt the standard Modbus RTU communication protocol.
- 1.4 Users can set relay alarm parameters, transmission output parameters, and communication parameters through buttons.

2. Main Technical Indicators

2.1 Input signal

Current signal	AC current 0~5A straight through, continuous operation 1.2 times, instantaneous 10 times/1s
Voltages	AC voltage 0-500V straight through, continuous operation 1.2 times, instantaneous 2 times/1s
Frequency	40~60Hz
Input impedance	Voltage meter: >500KΩ, current meter: <2mΩ

2.2 Measurement display

Display range	0-9999
Accuracy	Level 0.5
Resolution	0.1 (voltage), 0.001 (current)

2.3 Output function

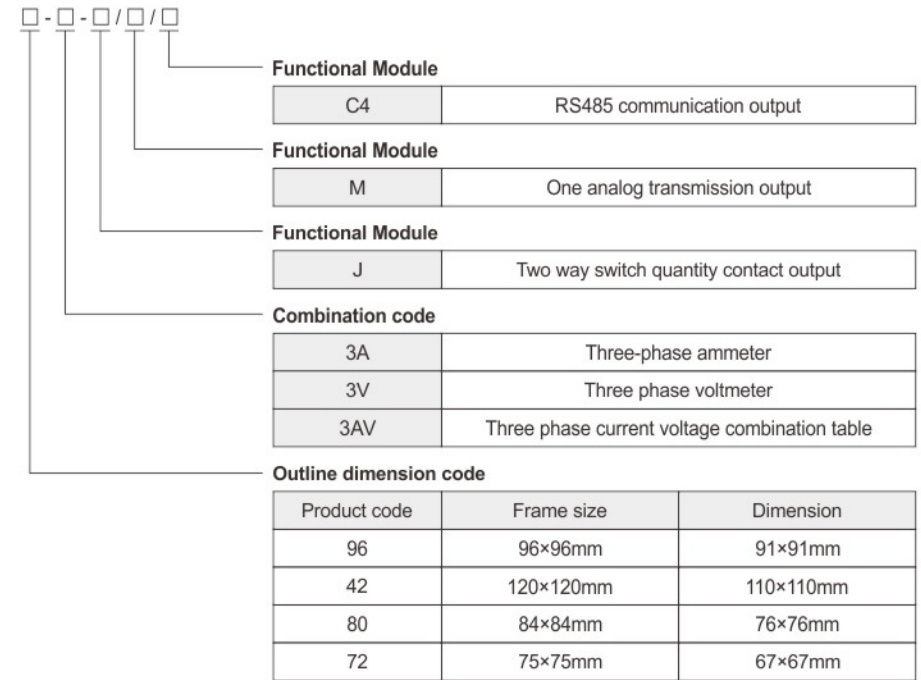
Switching output	Relay contact output, contact capacity AC220V, 3A (resistive)
Analog output	DC 4~20mA, DC 0~20mA, DC 0~10mA
Communication	RS485 communication, MODBUS-RTU protocol

2.4 Other functions

Power supply	AC220V±10% 50Hz (special voltage can be customized), power consumption ≤3VA
Safety performance	Insulation resistance ≥100MΩ, power frequency withstand voltage: 2KV/1min AC effective value
Work environment	Working temperature: -10℃~+50℃, relative humidity ≤ 90%, non corrosive gas environment

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3. Model Description



4. Terminal Function Configuration

Ia*	Ia	Ib*	Ib	Ic*	Ic	Un	Ua	Un	Ub	Un	Uc
Current input						Three phase four wire voltage input					

Ia*	Ia	Ib*	Ib	Ic*	Ic	Un	Uc	Ub	Ua
Current input					Three phase four wire voltage input				

Auxiliary power supply			RS485 communication		
L	N	GND	A	B	

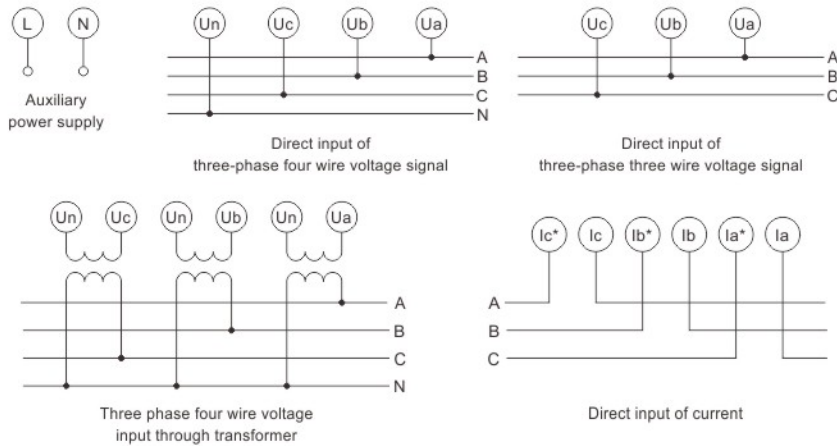
Auxiliary power supply			RS485 communication		
L	N	GND	A	B	

96/42 Current voltage wiring diagram

80/72 Current voltage wiring diagram

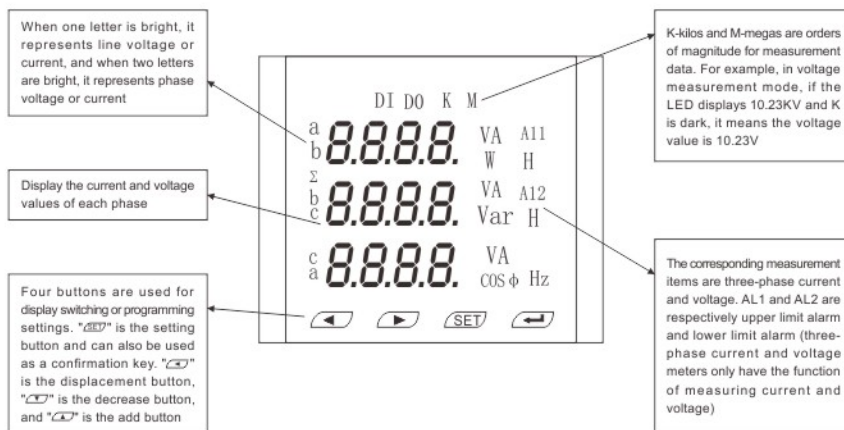
- ◆ U input represents the voltage signal input terminal
- ◆ I input represents the current signal input terminal
- ◆ Power represents the auxiliary power interface
- ◆ A and B represent communication interfaces
- ◆ Three wire: three-phase three wire
- ◆ Four wire: three-phase four wire

5. Typical Wiring and Precautions (ω in the figure represents the transformer)



6. Operating Instructions

6.1 Typical panel description

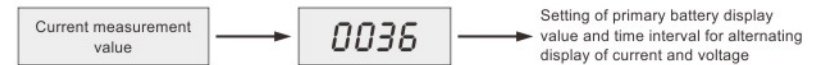


6.2 Menu character description

Parameter symbols		Meaning of parameter code	Sinitalize value	
			Current	Voltage
<i>d 15A</i>	diSA	Current display value once	0005	0000
<i>d 15U</i>	diSV	Primary voltage display value	0000	0500
<i>t 1nE</i>	time	Time interval for alternating display of current and voltage	005.0s	005.0s

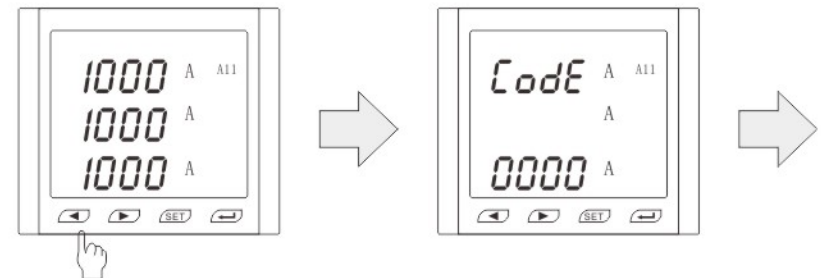
6.3 Operation process

1) When viewing or modifying instruments, pre-set passwords



2) Set the primary electricity display value of three-phase ammeter 96-3A

Example: Change the primary display current value of the three-phase ammeter 93-3A from 1000/5A to 2000/5A.

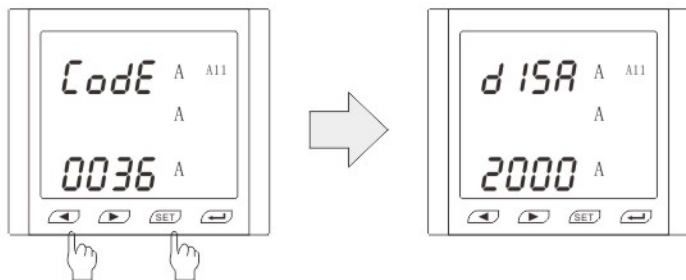


Operation steps:

a) In the normal display state, press the "SET" button once to enter the password preset state.

- Attention: ① Press the "SET" button lightly without holding down for a long time
 ② The menu "Code" is pre-set with a password.

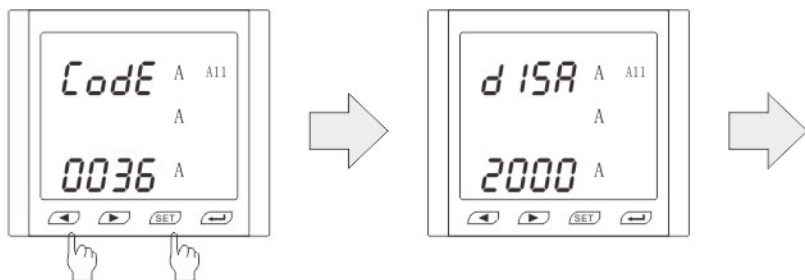
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- b) By using the combination of $\leftarrow \rightarrow \rightarrow \rightarrow$, set the menu "CodE" to "0036", and then press the "SET" button again to enter the "d 15A" setting interface.
- c) By using the combination of $\leftarrow \rightarrow \rightarrow \rightarrow$, set the menu "d 15A" to "2000", then long press the "SET" button for 3 seconds to save the instrument and return to the measurement interface.

Attention: ① Password "0036" is the password for entering the power setting of the instrument.
 ② The menu "d 15A" displays the primary current value.
 ③ Press and hold the "SET" function key for no more than three seconds, and the instrument will save the modifications and return to the measurement interface.

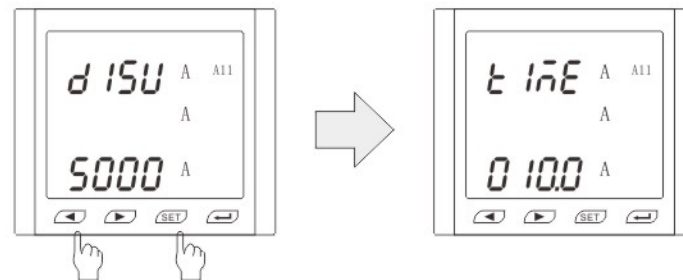
- 3) Set the primary power display value of the three-phase current and voltage combination instrument 96-3AV from 1000/5A to 2000/5A



- b) By using the combination of $\leftarrow \rightarrow \rightarrow \rightarrow$, set the menu "CodE" to "0036", and then press the "SET" button again to enter the "d 15A" setting interface.
- c) By using the combination of $\leftarrow \rightarrow \rightarrow \rightarrow$, set the menu "d 15A" to "2000", and then press the "SET" button again to enter the "d 15U" setting interface.

Attention: ① Password "0036" is the password for entering the power setting of the instrument.
 ② The menu "d 15A" displays the primary current value.
 ③ The menu "d 15U" displays the primary voltage value.

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- d) By using the combination of $\leftarrow \rightarrow \rightarrow \rightarrow$, set the menu "d 15U" to "5000", and then press the "SET" button again to enter the "t 1.0E" setting interface.
- e) By using the combination of $\leftarrow \rightarrow \rightarrow \rightarrow$, set the menu "t 1.0E" to "010.0", then long press the "SET" button for 3 seconds to save the instrument and return to the measurement interface.

Attention: The menu "t 1.0E" displays the interval time for alternating current and voltage.

7. Ordering instructions

Please provide detailed information on the required model, working power supply, input signal, conversion ratio, output requirements, communication functions, etc. when placing an order.

Example: Model: 96-3V, Working power supply: AC220V, Input signal: AC380V. (or ***/100V ratio).

Model: 96-3A, Working power supply: AC220V, Input signal: AC5A. (or ***/5A ratio).