

V. Parameter Setting Instructions

1. Introduction to Parameter Characters (Access method: press the SET key and then enter the password P036)

Parameter Prompt	Parameter Name	Parameter Meaning	Setting Range	Factory Value	Remarks
P_{vL}^a	PvL	Zero value	0000~9999	0000	The factory value can be set according to customer requirements
P_{vH}^b	PvH	Full value	0000~9999	5.000	The factory value can be set according to customer requirements
dot^c	dot	Decimal point position	0000~0003	0003	The factory value can be set according to customer requirements

a: Zero value P_{vL} : The corresponding display value when the input signal is 0, which can be used for zero - point correction and initial - value offset. Usually, this value is set to 0000.

b: Full value P_{vH} : The corresponding display value when the input signal is at the positive maximum.

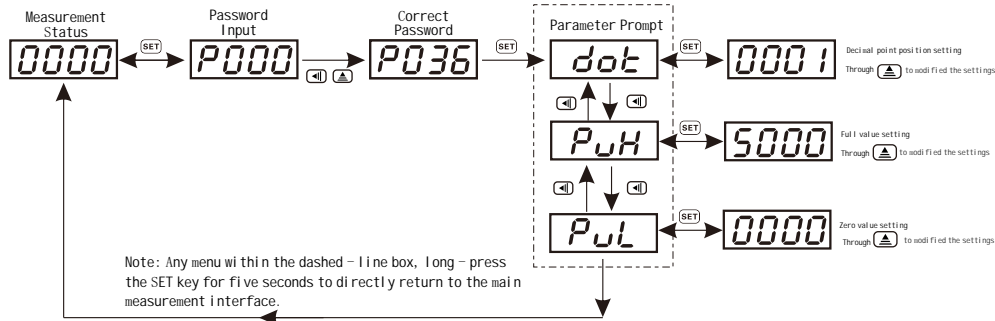
Different set full values have different corresponding resolutions. The smaller the full value, the lower the resolution and the more stable the display.

c: Decimal point position dot : The decimal - point position can be set arbitrarily. (See the following table)

dot Setting Value	0000	0001	0002	0003
Decimal - point Display Position	0000	000.0	00.00	0.000

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2. Programming Menu Structure (Typically illustrated with an instrument with 3 keys)



3. Keyboard Description

The programming operation of the keyboard adopts the operation mode of three keys, namely: Set key "SET", Left - shift key "◀", Up key "▲", to complete all operations of instrument function setting.

SET: In the case of instrument measurement display, press this key to enter the programming mode. In the programming mode, press this key to save; long - press this key to return to the measurement display interface.

◀: Left - shift key, to achieve the shift of the flashing digital - tube display number.

▲: Up key, to increase the digital quantity. Press this key once, the flashing digital - tube display value increases by "1".

Note: SX - 96B has one more "▼", to achieve the decrease of the digital quantity. Press this key once, the flashing digital - tube display value decreases by "1".

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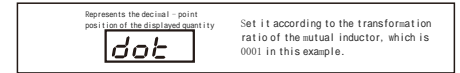
4. Usage Requirements

When all instruments are first used, please check the consistency of the instrument parameters with those required in the power - distribution system. The frequency meter has no menu, and the frequency can be displayed only by inputting a voltage signal.

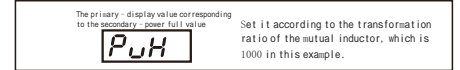
5. Application Example

If a customer wants to change the instrument specification from AC 5A to AC100/5A, please refer to the following steps: After correctly connecting the wires, power on the instrument. Press the SET key once and input the correct password **P036** on the password - input prompt page.

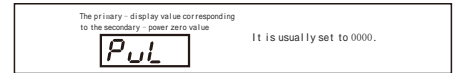
Press the SET key once to display



Press the ◀ key once to display



Press the ▲ key once to display



After setting is completed, long - press the key SET to return to the normal measurement state.

VI. Environmental Protection and Other Legal Provisions

To protect the environment, when this product or its components are discarded, please dispose of them properly as industrial waste; or hand them over to a recycling station for classified disassembly, recycling, and reuse in accordance with relevant national regulations.

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VII. Ordering Instructions

When placing an order, please specify in detail the required product model, working power supply, input signal, and transformation ratio.

For example: SX - 9B, working power supply: AC220V, voltage signal: AC500V.



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C-Lin 欣灵

使用说明书
Products Instructions

SX/HH Series

Single - phase Current and Voltage Display Meter

Thank you very much for using C-Lin brand current and voltage meter. Please read the instruction manual before using the product!

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I. Overview

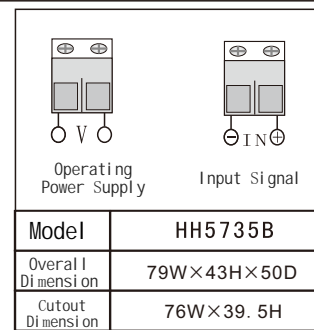
The SX/HH series single - phase current and voltage display meter (hereinafter referred to as the meter) is a new - type digital measuring instrument. With a single - chip microcomputer as the core , it is manufactured using SMT technology. The whole - machine design is advanced, and the layout is reasonable. With digital tube display, it shows clear and intuitive readings. It is mainly used as a power measurement unit meter in instrument cabinets or panels.

This model of meter can meet the relevant requirements of GB/T 22264.

II. Main Technical Parameters

1. Instrument accuracy: 0.5 class or 1.0 class
2. Display range: 0~9999; 40~60Hz
3. Input voltage: AC/DC 0~500V (for AC voltage greater than 500V, an external voltage transformer: X1/100, where X1 is the primary AC voltage value to be measured) sine wave or pure DC signal. Frequency meter: 10.0~400.0Hz
4. Input current: AC/DC 0~5A (for AC current greater than 5A, an external AC current transformer: X2/5 or X2/1, where X2 is the primary AC current to be measured; for DC current greater than 5A, a DC shunt: X3/75mV, where X3 is the primary DC current value to be measured) sine wave or pure DC signal.
5. Operating power supply: AC220V±10%, 50Hz (other special power supplies can be customized)
6. Overall power consumption: 1.5W

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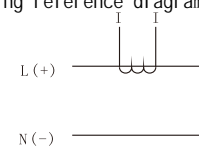


IV. Installation, Debugging and Wiring

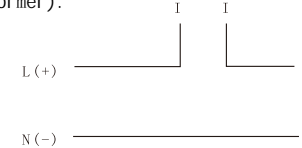
After the instrument is fixed, connect the power supply (i.e., rated operating voltage) to the terminals marked with operating power supply, and then connect the measured signal to the measuring terminal.

Notes:

1. Current signals should be connected in series, and voltage signals should be connected in parallel.
2. Common wiring reference diagrams (represents a transformer).



AC current (>5A) input via current transformer



AC current (<=5A) direct input

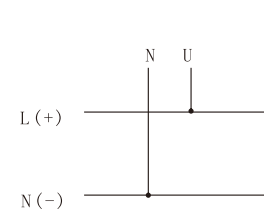
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III. Overall and Installation Dimensions (the terminal function configuration shall be subject to the wiring diagram on the instrument housing)

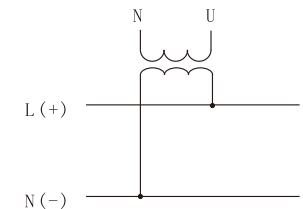
Model SX-48	Model SX-72	Model SX-6L
Overall Dimension 48W×48H×78D	Overall Dimension 72W×72H×65D	Overall Dimension 80W×80H×70D
Cutout Dimension 45W×45H	Cutout Dimension 68W×68H	Cutout Dimension 76W×76H

Model SX-96B	Model SX-96	Model SX-42
Overall Dimension 96W×48H×100D	Overall Dimension 96W×96H×96D	Overall Dimension 120W×120H×96D
Cutout Dimension 95W×44H	Cutout Dimension 92W×92H	Cutout Dimension 112W×112H

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AC voltage (<=500V) direct input



AC voltage (>500V) input via voltage transformer

3. Instructions

- 1) Voltage input: It can directly measure AC/DC voltage up to 500V. For AC voltage higher than 500V, a voltage transformer should be used.
- 2) Current input: The standard rated input current is 5A. For current greater than 5A, an external current transformer should be used (other special measurement signals can be customized). If there are other instruments connected to the current transformer in use, the wiring should adopt a series - connection method. Before removing the current - input connection of the product, the primary circuit of the current transformer should be disconnected or the secondary circuit should be short - circuited; otherwise, there will be danger. It is recommended to use a terminal block instead of directly connecting to the current transformer for easy assembly and disassembly.
- 3) After powering on according to the operating power supply, the instrument should have a display. When the measuring terminals are short - circuited, the instrument should display "0" or ±1 digit. According to the instrument's specification and model, input the voltage or current to be measured from the measuring terminals. At this time, the number displayed by the instrument is the measured value.

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