

Chapter 4. Installment and connection

Shape	Panel dimension			Case dimension			Cutout hole dimension	
	W	H	D	W	H	D	W	H
120×120square	120	120	110	110	80	80	112	112
96×96square	96	96	90	90	80	80	92	92
80×80square	80	80	74	74	80	80	76	76
72×72square	72	72	66	66	80	80	68	68
48×48square	48	48	44	44	44	70	45	45

(unit: mm)

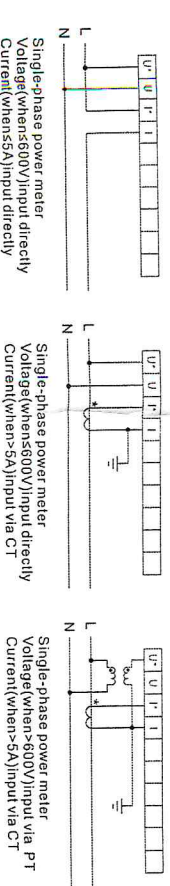
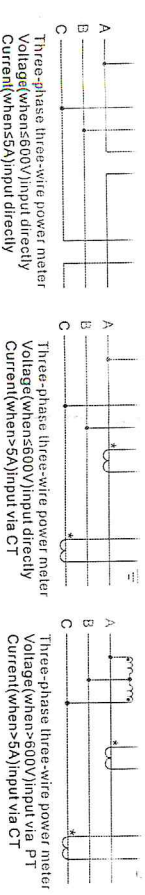
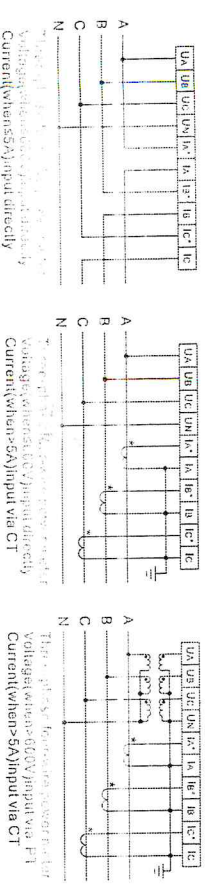
2. Method of installation

Choose the corresponding hole cutout dimension from the table above, make a hole in the installation screen, insert the instruments into the hole, place the two clamping pieces into the clamping holder and push and tighten them by hand.

- Terminal arrangement and function declaration of instrument (please accord to the one of instrument case)
- Auxiliary power supply (POWER): The voltage range of operation is AC 220V, 50/60Hz. It is suggested to install a fuse of 1A beside of the live wire when using the AC power supply to prevent damaging the instrument. In the areas with poor power quality, the surgesuppressor and quick pulse group suppressor should be installed in the power supply circuit.

Electrical quantity signal input (I input): HI represents "+" port of DC input signal live wire terminal of AC voltage input signal and inlet terminal of AC current input signal. Input voltage should not be higher than the maximum value (AC 600V, or you should consider of using PT and installing fuse of 1A on voltage input port. While the current is higher than AC10A, you should consider of using CT)

3.2. Typical connection



Chapter 5. Cautions

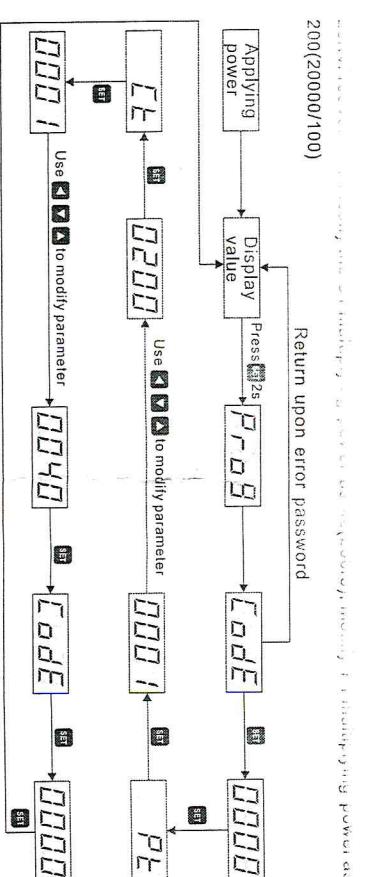
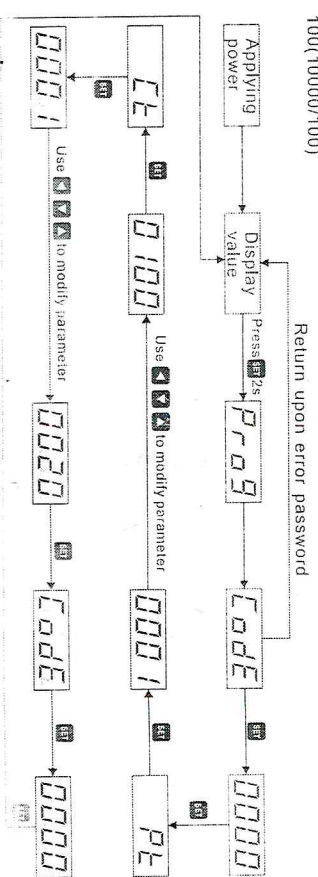
- Please confirm if the power supply, input signal and each terminal wiring of the meter are correct and reliable before applying the power.
- The instrument must be preheated for 15 minutes to guarantee the precision of measurement.
- The instrument should not be rapped, knocked and vibrate excessively and its using environment should meet the technical requirements.
- The meter has been calibrated according to the measuring range required by the customer upon order. The user should check once again if the measuring range of the meter is fit with the specifications of the transformer and set the measuring range again if not.

Chapter 6. Packing and Storage

The instrument and accessories with packing should keep storage conditions cool and dry and free of wet and corrosive gas with temperature not more than 70°C and not less than -40°C, and relative humidity≤85%RH.

Appendix 1: Example of programming

Example 1: The factory default parameter is AC 5A(CT=1), 0~600V(PT=1). If the voltage transformer is 10KV/100V should modify the CT multiplying power as 20(100/5), modify PT multiplying power as 100(10000/100)



Programmable Digital Power Meter

Please read through the manual before installation and operation

Chapter 1. General Introduction

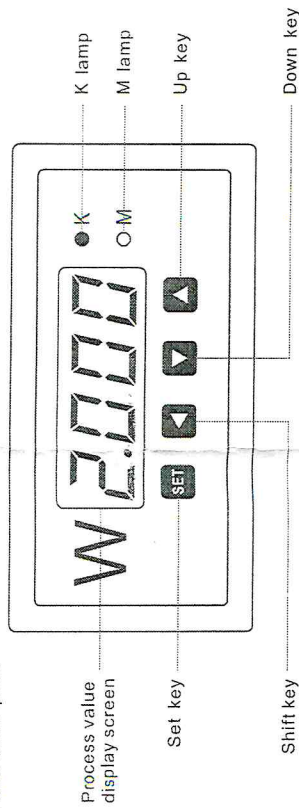
This series digital display power meters are the new generation of programmable intelligent power meters, which are mainly used in the real-time measurement and indication on active power and reactive power of single-phase or three-phase electric circuit. The reactive power adopts the digital shifting-phase real reactive power measuring mode. With features of high precision, good stability without adjustment for long term, spot field setting the multiplying factor of mutual induct by panel keys, it is an ideal upgraded product for original dial power meter or common digital power meter.

Chapter 2. Technical parameters

1. Measuring indication range of active power: 0 ~999W ~999kW ~9999MW
(units switch automatically through status light)
- Measuring indication range of reactive power: 0 ~999var ~999kvar~9999Mvar
(units switch automatically through status light)
2. Accuracy rating of measurement: $\pm 0.5\%FS \pm 1$ digital(Active)
 $\pm 1.0\%FS \pm 1$ digital(reactive)
3. Rated input voltage: AC 100V, 220V, 380V
(The multiplying factor of mutual inductor can be set freely)
4. Rated input current: AC 1A or 5A
(The multiplying factor of mutual inductor can be set freely)
5. Input signal frequency range: 45.00~55.00Hz
6. Input circuit power consumption of voltage: <1VA
7. Input circuit power consumption of current: <0.5VA
8. Resolution: Maximum: 1W, the decimal point shifts automatically
9. Sampling rate: About 3 times/s
10. Overflow indication: Displaying character "HHHH"
11. Polar indication: Backward power can be indicated, negative signal displays "-" automatically
12. Auxiliary power supply: AC 220V $\pm 10\%$, 50/60Hz
13. Auxiliary supply consumption: <3VA

Chapter 3. Programming and usage

1. Panel description



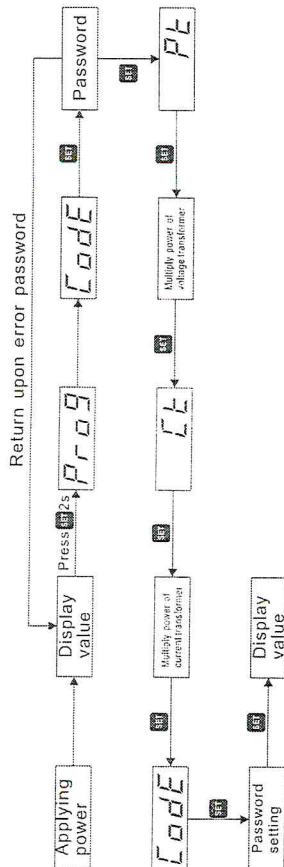
2. Key function

- SET key:** Press this key 2s to enter the programmable mode; Under the programmable mode, it is used to enter the next menu.
- Shift key:** Under the programmable mode, it is used to left shift the cursor one digit, and quit the programmable mode and return the measuring value display interface.
- Down key:** Under the programmable mode, it is used for depression of parameter value or enter the next menu;
- Up key:** Under the programmable mode, it is used for progressive increase of parameter value or enter the previous menu;

3. How to operate

The instrument displays program version code and enters measuring valve display status automatically 2s later when applying power. Enter programming status by pressing down **SET** 2S. The operational flowchart is as following:

Note: Password to enter the menu is 0000(user can modify the password "CODE")



Note: Under the programmable mode, select the menu and press the **SET** key to modify the parameter; Use the **SET** key to input or modify the parameter.

4. Program parameter specification

NO.	Parameter code	Parameter name	Setting range	Parameter default	Description
1	Prog	Programmable mode PROG	/	/	Prompt to enter the programmable mode
2	Code	Programmable password CODE	/	0000	Password to enter the programmable mode
3	PLT	Multiply power at PT	1-9999	1	Set multiplying power of voltage transformer "PT"(Primary value of voltage transformer/secondary value)
4	CT	Multiply power of CT	1-9999	1	Set multiplying power of current transformer "CT"(Primary value of current transformer/secondary value)
5	Code	Setting programmable password CODE	0-9999	0000	Modify programming password