

## Specification of 56005 power meter

This article adopts the high integration of microcomputer chip and a dedicated electric energy metering chip, using high precision current sensor and LCD display to achieve the all-round supervisory of electric equipment. It can be applied to monitor a air conditioner, refrigerator and microwave, also can be used as a measuring instruments for teaching which is suitable for family, rental, office, laboratory environment use, etc.

### Introduction of function:

1. Monitoring the current active power.
2. The maximum power which has been monitored (with H blink).
3. The minimum power which has been monitored (with L blink).
4. Record the cumulative use of electricity (Historical cumulative power)
5. Record the cumulative amount of electricity (Historical cumulative amount of electricity, TIME can't blink)
6. Record the cumulative using time of electricity (Historical cumulative time of electricity consumption, TIME can't blink)
7. Record the life time of the load (Historical life time of the load, with TIME blink)
8. Monitoring the RMS of voltage
9. Monitoring the RMS of electric current
10. Monitoring the frequency
11. Power factor

### Specifications and features

1. Specification: 230V/50Hz/I Max 16A ( $P \leq 3600W$ )
2. Power consumption:  $< 0.5W$
3. Working temperature:  $0 \sim 45^{\circ}C$
4. Resolution: 0.1W
5. Measurement precision:

Index	Real power		Instantaneous power value		
	0—20W	20-3300W	<20W	20—2000W	2000-3300 W
Deviation	5%	<1%	$\pm 0.5W$	<1%	<1.5%

### Operating:

1. Insert power monitor into the power socket, then plug in the electrical appliances.

The description shows when power on:After power on,the general item is active power value W.The words above the line shows the function W、KWH、SUM、TIME、A、V、HZ、COS,The following line corresponding to the value of each functions,for example:

KWH

120

This means the function is power gear KWH,power consumption is 120 (KWH)

Acquiescently,after power on, KWH, SUM,TIME (will be under the state of no-blink, non-loaded.)As long as open the data accumulation function,the clock will start counting),TIME(under the state of blink,when loaded,open the data accumulation function,the clock will start counting,when non-loaded,it will stop counting.)This will not be accumulated.when you press the STA/STP button,the data accumulation function will be opened,press the STA/STP button again,the accumulation will be stopped.the information is instant,will not be saved after power off.

3.The description of buttons shows:press"ON TIME"button,it will display power W,power peak H,valley value of power L,electricity KWH,amount SUM,cumulative time TIME, loaded time consumption TIME(blink),voltage V,electrical current A,frequency HZ,and power factor COS,press "-"button,it will display on inverted sequence.

4.Transition of historical cumulant display mode and the current cumulant display mode.

When the button switch LCD display to the electricity accumulation(KWh) ,keep press the"R"button,the LCD will display "Add" which means it has switched to historical cumulant display mode,and what it shows now is the information of historical electricity consumption KWH,amount SUM,total time TIME,loaded time TIME(blink).this accumulation will keep recording and saving,if power off,the information will not be lost,when power on,it will accumulate on the basic of the data when it power off last time.

When you press the "R"button again,it will quit the mode of historical cumulant,and enter into the current cumulant display mode.

5.Payment display and set up of unit price:

When the button switch LCD display to the amount accumulation(SUM) ,keep press the"R"button to enter into the UI of set up SUM unit price,the LCD will display XXXX.XX,the first "X"on the left blinking,change the number through "ON TIME"or"MODE",("ON TIME" is data increasing button,"MODE" is data decreasing button).After finishing confirmation by"STA/STP"button,enter into the set up of next number,unit price set up will be accomplished after setting up of all the number.Touch the LCD

back to the UI of accumulative amount,press "R"button when set up ,it won't save the data of amount and back to the UI of accumulative amount.

#### 6.Reset:

When the LCD switch to display of accumulative time(the TIME display can't blink), press "R"button,it will enter into the UI of reset,LCD shows CLR,press "SET/STP"button,the historical electricity consumption KWH,amount SUM,total time TIME,loaded time TIME(blink)will be reset,when touch LCD back to the UI of accumulative time,press "R".the above-mentioned functions will not be reset and back to UI of accumulative time directly.