

# SPM001 Multi-Function Digital Meter

## User Guide

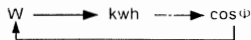
SPM001 multi-function digital meter use to measure AC voltage, AC current, active power, electric energy and power factor

### Technical Indicators

1. Accuracy:  $1\% \pm 2$  words
2. Display Mode: AC voltage and AC current use four red led of 0.32-inch  
Active power electric energy and power factor use five green led of 0.32-inch
3. Range: AC voltage :  
AC 80.0-300.0V / AC 200.0-450.0V : You should select the one type of meter in your order ).  
AC 0.0-100.0A ( when measure signal lower than 100A, the accuracy is 0.01A, when measure signal higher than 100A, the accuracy is 0.1A, the accuracy auto-change)  
Active power: 0.000-30000W ( measure voltage AC 80.0 - 300.0V )  
0.000-45000W ( measure voltage AC 200.0 - 450.0V )  
Electric energy: 0.000-99999kwh  
Power factor: 1.000-0.000
4. Speed: 2 times per second
5. Size: 79×43×48
6. Installation Size: 76×39

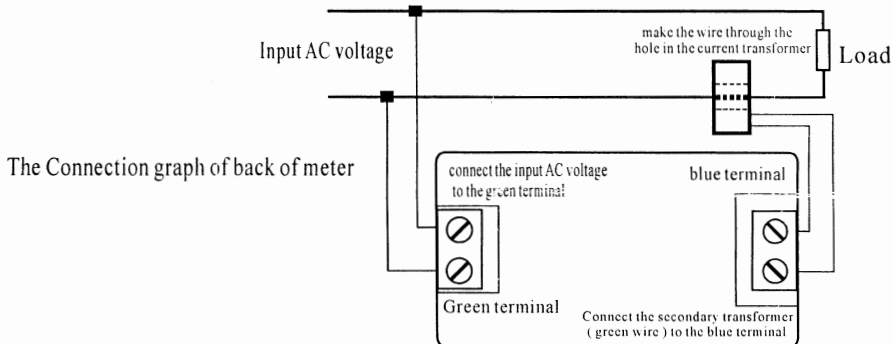
### Application Method

1. Connect the secondary transformer ( green wire ) to the blue terminal, and make the wire through the hole in the current transformer as graph.
2. Connect the measuring voltage to the green terminal.
3. When power on, the meter will display the measure result of voltage, current and power factor. Then every time when you press the button of SAM CK, the measure result of active power will change to electric energy, power factor and active power in turn. The display order of green led is as graph.



4. When you want to clear electric energy, you should press the button of SAM CK and let the meter display the electric energy ( the electric energy of indicator light (kwh) power on ), then press down the button of SAM CK last for five seconds, then the electric energy will be zero and start to a new cumulate period.
5. When power off, the meter can save the value of electric energy, and go on cumulating data when the meter power-on next.

### Connection graph



### Attention

1. Take care of the voltage input ( green ) terminal and secondary transformer ( blue ) terminal, the meter will be destroyed in your mistake connection.
2. The meter can only use to measure 50Hz AC city electricity, it will be destroyed when use to measure square wave, output of inverter and correction sine wave.