PS、PQ7777-□ series programmable digital Wattmeter,Varmeter

9 PS、PQ7777-□ (K/B/T/N)programmable digital Wattmeter、Varmeter

9.1 Function: measure and display the single/three phase active power、reactive power in the electric lines with digital direct reading method. Both 3 phase 3 wire and 3 phase 4 wire signal input method are allowed. The meter can be used as normal digital wattmeter、varmeter, it can also be used as active/reactive power transmitter with the function of displaying one measuring value by installing the analog input module. It can be used as active/reactive power data collector with the function of displaying one measuring current by adopting RS-485 digital communication module; it can also be used for protecting over-limit alarm of normal active/reactive power by adopting the relay input module. Besides, by adopting all the three function modules, it can be a multi-functional network electric meter, which has measuring, alarming, transmitting, communicating, etc. functions.

There are programmable keys on the panel, which can program and set parameters including transformer rate、upper and lower limit alarm value、communication address of the meter、communication baud rate、transmitting output method、transmitting output range, etc.

9.2 Specification and selection instructions

Model	measurement displays: active power single	active power 3 phase 3 wire	active power 3 phase 4 wire	reactive power single	reactive power 3 phase 3 wire	reactive power 3 phase 4 wire	the code of external size(the number in □): 1	2	3	4	5	6	7	8	T communicatio	K alarm contac	B transmitting output	Note
PS7777-□	●						√	√	√		√	√	√	√				
PS7777-□K	●						√	√	√		√	√	√	√		△		
PS7777-□B	●						√	√	√		√	√	√	√			△	
PS7777-□T	●						√	√	√		√	√	√	√	△			
PS7777-□N	●						√	√	√		√	√	√	√	△	△	△	
PS7777-□S		●					√	√	√		√	√	√	√				
PS7777-□SK		●					√	√	√		√	√	√	√		△		
PS7777-□SB		●					√	√	√		√	√	√	√			△	
PS7777-□ST		●					√	√	√		√	√	√	√	△			
PS7777-□SN		●					√		√				√	√	△	△	△	
PS7777-□Y			●				√		√				√	√				
PS7777-□YK			●				√		√				√	√		△		
PS7777-□YB			●				√		√				√	√			△	
PS7777-□YT			●				√		√				√	√	△			
PS7777-□YN			●				√	√	√				√	√	△	△	△	
PQ7777-□				●			√	√	√		√	√	√	√				
PQ7777-□K				●			√	√	√		√	√	√	√		△		
PQ7777-□B				●			√	√	√		√	√	√	√			△	
PQ7777-□T				●			√	√	√		√	√	√	√	△			
PQ7777-□N				●			√	√	√		√	√	√	√	△	△	△	
PQ7777-□S					●		√	√	√		√	√	√	√				
PQ7777-□SK					●		√	√	√		√	√	√	√			△	
PQ7777-□SB					●		√	√	√		√	√	√	√		△		
PQ7777-□ST					●		√	√	√		√	√	√	√	△			
PQ7777-□SN					●		√		√				√	√	△	△	△	
PQ7777-□Y						●	√		√				√	√				
PQ7777-□YK						●	√		√				√	√			△	
PQ7777-□YB						●	√		√				√	√		△		
PQ7777-□YT						●	√		√				√	√	△			
PQ7777-□YN						●	√		√				√	√	△	△	△	

● The corresponding measurement display type of this meter

√ The corresponding external size code of this meter can be chosen one external size code to be filled in "□" while selecting

"△" means this type of meter has this additional functions

Note: the size code 2, 5, 6 can only be collocated 2 functional modules optionally, and the size code 1,3,7,8 can be collocated 3 functional modules optionally.

9.3 Basic parameters

9.3.1 Input(single、3 phase 3 wire、3 phase 4 wire): 100V 5A、220V 5A、380V 5A(direct) 220V*/5A、380V*/5A、*/100V*/5A(additional device)

9.3.2 Accuracy: ±[0. 4%measuring value + 0.1% rated value + 1 word]

9.3.3 Maximum digital display range: −9999~+9999

9.3.4 Resolution: last digit 1 word

9.3.5 Sampling rate: ≈2.5 times/second

9.3.6 Polar indication: can identify the negative power automatically, the positive value has no display; the negative value shows "_" automatically

9.3.7 Auxiliary power supply: AC/DC 86~264V

9.3.8 Alarm output(optional): relay contact output, the capacity of contact is AC250V/2A、DC30V/2A

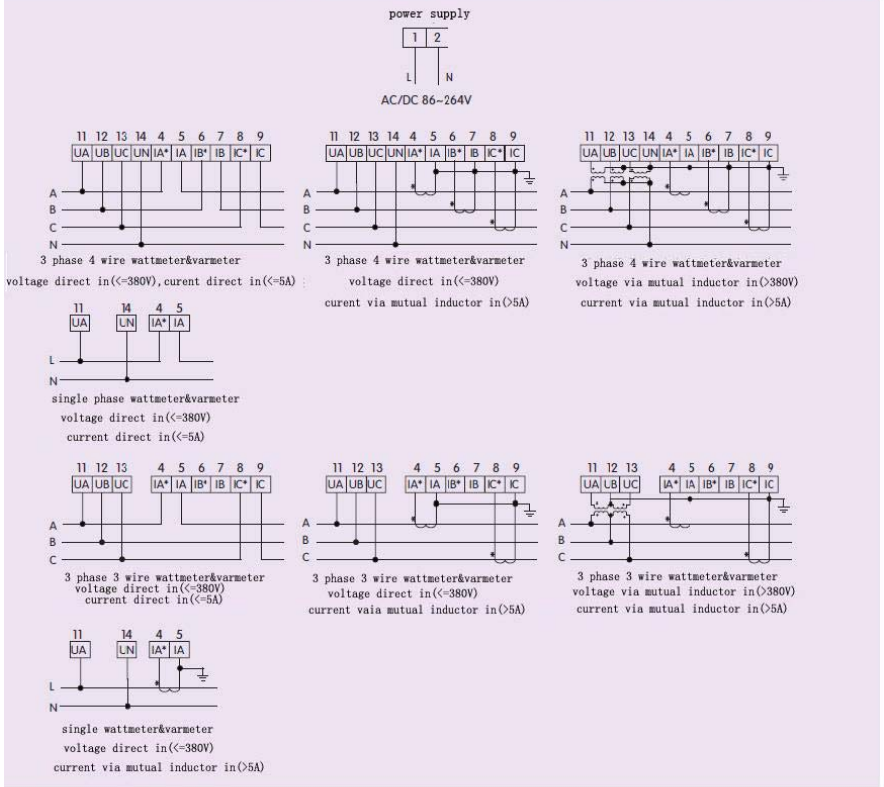
9.3.9 Communication interface (optional): RS-485 serial communication, MODBUS_BTU communication protocol,

9.3.10 Baud rate 1200bps、2400bps、4800bps、9600bps、19200bps.

9.3.11 Transmitting output(optional): can be set among (0~10)mA、(0~20)mA、(4~20)mA, there is electrical isolation between the output port and signal input&auxiliary power port.

9.3.12 Load resistance of transmitting output: ≦500 Ω

The terminal code and connection diagram of single/3 phase watmeter,varmeter



The terminal code and connection diagram of the functional output modules