

PD666-□S4 series

three phase digital
multi-function meter



Summary:

PD666-□S4 series three phase digital multi-functional meter is designed for the demand of power monitoring and electric energy measurement including power system, communication industry and construction industry, mainly applied into real-time measurement and indication for the electrical parameters such as three phase voltage, three phase current, active power, negative power, frequency, power factor and energy in the electrical circuit, realizing networked through RS485 communication interface and external device for remote data transmission, which is widely used into variety of intelligent power distribution system for power monitoring and industrial automation, etc.

1. Main functions and characteristics:

- ◆ It can measure three phase current, three phase voltage, active power, reactive power, power factor, frequency, positive/negative active energy and four-quadrant reactive energy.
- ◆ With the standard RS-485 communication interface, it adopts the standard ModBus-RTU communication protocol and the baud rate can be set.
- ◆ Parameters such as current/voltage ratio, type of network, communication address of the meter, communication baud rate, etc. are programmable.

2. Model specification and selection description:

(unit: mm)

Model	Measurement display						Energy		Power pulse	RS485 communication	External size	Display mode
	3-phase voltage	3-phase current	Active power	Reactive power	Power factor	Frequency	Active energy	Reactive energy				
PD666-2S4	•	•	•	•	•	•	•	•	•	•	72×72	3 line 4 digit LED display
PD666-3S4	•	•	•	•	•	•	•	•	•	•	96×96	
PD666-6S4	•	•	•	•	•	•	•	•	•	•	80×80	
PD666-8S4	•	•	•	•	•	•	•	•	•	•	120×120	

Note: •means the intrinsic functions of the instrument.

3. Main technical performance and parameters:

Technical parameters	index			
Connection mode	Three phase three wire or three phase four wire is optional			
Input	Voltage	Rated value	AC100V, 220V, 380V, 450V	
		Overload	Continuous: 1.2 times, instant: 2 times/5s	
		Consumption	≤2VA(each phase)	
		Resistance	>500kΩ	
	Current	Rated value	AC1A, 5A	
		Overload	Continuous: 1.2 times, instant: 10 times/5s	
		Consumption	≤1VA(each phase)	
		Resistance	<20mΩ(each phase)	
	Measuring rang of the frequency		45Hz-65Hz	
Output	Display mode		LED display	
	Measuring accuracy		Voltage Class 0.5 Resolution 0.1V Current Class 0.5 Resolution 0.001A Active power Class 0.5 Resolution 1W Reactive power Class 1.0 Resolution 1var Power factor Class 0.5 Resolution 0.001 Frequency Class 0.5 Resolution 0.01Hz Active energy Class 0.5 Resolution 0.01kWh Reactive energy Class 2.0 Resolution 0.01kvarh The unit can switch automatically, the decimals shift automatically	
	Electric energy	Energy measurement	Support positive/negative measurement active energy, four-quadrant measurement reactive energy.	
		Pulse constant	Active power: 10000imp/kWh, Reactive power: 10000imp/kvarh	
		Pulse signal output	Provide 2 sets(active/reactive energy) of optical signal and optocoupler isolated open collector electrical signal pulse output, pulse length:80ms±16ms	
	Communication	Mode	RS-485	
		Protocol	MODBUS-RTU	
		Baud rate	1200bps, 2400bps, 4800bps, 9600bps, 19200bps, assumed to be 9600bps	
	Working power supply	Range		AC/DC85V~264V
		Consumption		≤15VA