Mounted Digital Instrument

PD666-□ Series Digital Multi-function Meter



11PD666-□S Series Digital Multi-function Meter

11.1 Function: PD666- type Digital Multi-function Meter (hereinafter referred as the meter) is designed for the demands of power monitoring and electric energy measurement of electric system, communications industry and construction industry. It is mainly used to measure and display in a real-time manner such power parameters as three-phase voltage, three-phase current, active power, reactive power, frequency, power factor, four-quadrant electric energy and so on in the power circuits. It can be networked with external devices via RS485 communication interface to realize far-distance transmission of data. The meter is extensively applied in various intelligent distribution systems of power monitoring and industrial automation.

11.2 Variety & specification and selection description

Product function	Model	PD666 3S3	PD666 6S3	PD666 -8S3	PD666 3S4	PD666 6S4	PD666 8S4	PD666 6S1	PD666 6S9
Real-time	Three-phase voltage	\checkmark	√	√	\checkmark	\checkmark	√	√	
	Three-phase currentl	\checkmark	√	√	\checkmark	\checkmark	\checkmark	\checkmark	√
measurement	Power	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	√		
measurement	Power factorl	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
	Frequency	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
Electric energy	Active energy	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		√
measurement Cannot be used	Reactive energ	gy √	\checkmark	√	\checkmark	\checkmark	\checkmark		√
as billing basis)	Two-way measurement	\checkmark	√	\checkmark	\checkmark	\checkmark	\checkmark		√
Electric energy		\checkmark	\checkmark	√	\checkmark	\checkmark	\checkmark		√
Rs485 communic	cation	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	√
Displaying mode	5	Segment	code LCD			Three-row	four-digit L	ED	Two-row six-digit LED

Note: " $\sqrt{}$ " indicates this model has corresponding function.

11.3 Main technical performances and parameters

 .3 Main technical performances and param Technical parameters 			Index			
recimeur parameters		Network	Single-phase, three-phase three-wire or t	thraa nhasa faur wira availahl		
Input -	Voltage	Rated value				
			Continuous 1.2 times instantaneous 2 times /5 - 1 instantanta			
		Overload		overload symbol if exceeding the rated value by 1.2 times		
		Power consumption	on ≤2VA (each phase)			
		Impedance >500KHz				
	Current	Rated value	AC1A、5A			
		Overload Continuous: 1.2 times; instantaneous: 10 times/5s; display "HHHH" overload symbol if exceeding the rated value by 1.2 times				
		Power consumption ≤ 1 VA (each phase)				
		Impedance $<20m\Omega$ (each phase)				
	Measuring range of frequency		45Hz~65Hz			
Displaying mode		e	current $0.001A$, active power $1W$, reactive power $1var$, apparent power $1VA$, power factor 0.001 , frequency $0.01Hz$, electric energy $0.01kWh$; automatic unit switching, automatic shifting of decimal point.			
	risping mod		automatic unit switching, automatic shif	ting of decimal point.		
		Output mode	Open optocoupler pulse output of two-wa			
Output	Electric	Output mode Pulse constant Communication	Open optocoupler pulse output of two-wa	ay collector		
Output		Output mode Pulse constant	Open optocoupler pulse output of two-w Voltage ≥220V, current1A/5A	ay collector 4800		
Output	Electric	Output mode Pulse constant Communication (Active imp/kwh;	Open optocoupler pulse output of two-wood voltage ≥220V, current1A/5A Voltage 100V, current5A	4800 16000		
Output	Electric	Output mode Pulse constant Communication (Active imp/kwh; Reactive	Open optocoupler pulse output of two-wave Voltage ≥220V, current1A/5A Voltage 100V, current5A Voltage 100V, current1A	4800 16000		
•	Electric	Output mode Pulse constant Communication (Active imp/kwh; Reactive imp/kvarh)	Open optocoupler pulse output of two-wave Voltage ≥220V, current1A/5A Voltage 100V, current5A Voltage 100V, current1A Voltage 100V, current1A	4800 16000		

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Technical parameters		Index		
	Voltage, current, active power, Apparent power, frequency, power factor	Class 0.5		
Accuracy class	Reactive power	Class 1		
	Active electric energy	Class 1		
	Reactive electric energy	Class 2		
Power	Range	AC/DC 85~264V		
supply	Power consumption	<15VA		
	Temperature	-25℃~55℃		
Environment	Humidity	25%RH < Humidity < 93%RH, no condensation of moistusites without corrosive gas		
	Atmospheric pressure	86kPa~106kPa		

11. 4 Wiring mode

