

PD(Z)2565L3 Series Three-Phase Multifunction (Combined) Meter

1 Overview



With large-scale integrated circuit, digital sampling processing technology, and SMT process, PD(Z)2565L3 series three-phase multifunctional (combined) meter is designed and manufactured to satisfy the monitoring needs in power systems, industrial and mining enterprises, public facilities, intelligent buildings, and intelligent communities. It can measure all common power parameters with high precision, such as three-phase voltage, three-phase current, active power, reactive power, frequency, power factor, active energy, and reactive energy (combined meter cannot measure the electric energy parameters); the series has a short housing with up to one-circuit RS485 communication function and one-circuit switching output function; there are four programming keys on the instrument panel to easily realize display switching and instrument parameter programming settings on site with strong flexibility.

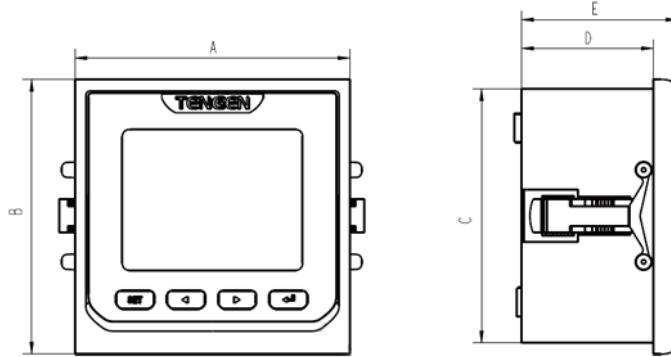
2 Product Parameters



Technical parameter		Technical indicator	
Input	Voltage	Rated value	AC 400V
		Overload	Duration: 1.2 times; instantaneous: 2 times / 5s
		Power consumption	<2VA
	Current	Rated value	AC 5A
		Overload	Duration: 1.2 times; instantaneous: 10 times / 5s
		Power consumption	<1VA
	Frequency	45Hz~65Hz	
Measurement accuracy	Current	Grade 0.5	
	Voltage	Grade 0.5	
	Frequency	±0.05Hz	
	Power	Active power, grade 0.5 Reactive power, grade 1.0	
	Electric energy	Active power, grade 0.5 Reactive power, grade 2.0	
Output function	Alarm output	The upper and lower limit alarms are output from the same relay, contact capacity AC250V/2A, DC30V/2A	
	Communication	RS485 communication interface, supporting both Modbus-RTU and DL/T 645-2007 dual protocols, baud rates 1200, 2400, 4800, 9600, 19200 optional	
	Display mode	LCD/LED	
Aux. power supply	Range	AC、DC85V ~ 265V, 50Hz/60Hz	
	Power consumption	< 5VA	
Safety	Power frequency withstand voltage	Input and aux. power supply	>2.5kV 50Hz/1min
		Input and output	
		Output and aux. power supply	
	Insulation resistance	Aux. power support, input, and output to the meter housing is > 100MΩ	
Electromagnetic compatibility	Electrostatic discharge immunity	GB/T 17626.2 Grade 4	
	Quick transient pulse train immunity	GB/T 17626.4 Grade 4	
	Surge (impact) immunity	GB/T 17626.5 Grade 4	
	High-frequency electromagnetic field	80MHz~1000MHz, 10V/m	
Ambient temp.	Temperature	Storage and operation: -25°C~55°C	
	Humidity	≤ 93%RH, non-condensation, and no corrosive gas	
	Altitude	≤2500m	

PD(Z)2565L3 Series Three-Phase Multifunction (Combined) Meter

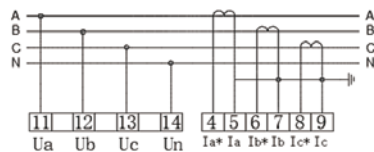
3 Outline and Installation Dimensions



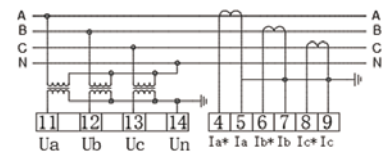
Model	A	B	C	D	E	Hole sizes (W x H)
PD/Z2565L3-72S(Y)	72mm	72mm	65mm	38.4mm	45.5mm	66mm×66mm
PD/Z2565L3-80S(Y)	80mm	80mm	74mm	38.4mm	45.5mm	75mm×75mm
PD/Z2565L3-96S(Y)	96mm	96mm	89mm	38.4mm	46.5mm	90mm×90mm

Note: The PD (Z) 2565L3 series does not have square size models of 48mm and 120mm.

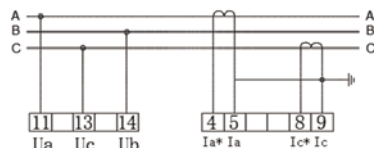
4 Wiring Diagram



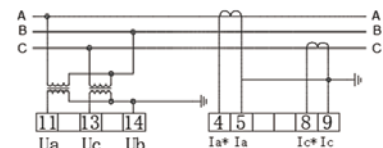
Three-phase four-wire current transformer connected



Three-phase four-wire voltage transformer connected



Three-phase four-wire current transformer directly connected



Three-phase four-wire voltage transformer directly connected

5 Precautions

- Before power-on, please confirm that the power supply and input signal of the instrument are within the scope of application again, and that each terminal is connected properly and firmly.
- The meter shall be warmed up for 15 minutes to ensure accurate measurement.
- The meter shall not be subject to knocks, collisions, and violent vibrations, and the working environment should meet the technical requirements.
- For poor quality of the meter including damage occurred during transportation (excluding unpacking without permission), please contact the company or local dealers directly, and our company will quickly replace it free of charge.

6 Ordering Notice

- Please specify the model, specification, quantity, auxiliary power supply, and structural form when selecting the instrument.
- When RS485 communication function and switching output function are required, please clearly specify the specification according to the Type Designation or remark the model when ordering, because the routine product generally has no above functions.