

PZ Series DC Power Meter

For DC network measurement, such as solar power station, telecom station

1. General

PZ series DC analyzer is designed for application in GZDW、 solar power supply、 telecom station. It can measure voltage, current, power、 forward and reverse energies of DC network. It may be used for local display and connected with the control equipment to regroup measuring and controlling system.

It can be equipped RS485 communication under Modbus-RTU protocol; and it has options of analog output, relay alarm, digital input/output. According to different request, meter's parameters can be set by 4 keys on its panel.



2. Technical feature

Technical feature		Value	
Input	DC volt	Range	0~1000V
		Impedance	≥2kΩ/V
	DC current	Range	0~10A input directly (Start 5mA) 0~9999A(with Shunt or Hall component)
		Shunt	Output 75mV
		Hall Component	Output 0~20mA,4~20mA,0~5V,0~10V
		Consumption	≤1mW
		Overload	1.2 times (continuous),2 times during 1s
Precision		0.5 class	
Function	Display	LED ,LCD	
	Communication	RS485,Modbus-RTU protocol	
	Alarm	1 channel relay output:2A/30VDC or 2A/250VAC	
	Analog	DC4:20mA,DC0~20mA(load< 600Ω), DC0~5V(load> 1kΩ) programmable	
	Switching value	input(DI)	Dry contact input, with insert power, optocoupler isolation
output(DO)		Opening passive relay contact,2A/30VDC or 2A/250VAC	
Power supply	Voltage	DC36~48V,DC110~350V,AC85~265V (Please indicate when order)	
	Consumption	≤2W	
Isolation resistance		≥100MΩ	
Isolation		3kV/1min(RMS) (inputs / power,outputs / power)	
MTBN		≥50000h	
Environment	Temperature	LCD: -10C~+45C;LED: -10C~+55C Storage: -20C~+70C	
	Humidity	≤ 93%RH, no condensation,no corrosive gas	
	Altitude	≤ 2500m	

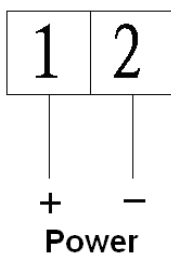
3. Specification

Type	Function	Outline	Option
PZ72-DU	DC voltmeter	72x72mm LED display	1.RS485 (/C) 2.One analog output (/M) 3.Analog output+RS485 (/MC) 4.RS485+ 2DI (/KC) 5.RS485 + 2DI2DO (/KC)
PZ72-DI	DC ammeter		
PZ72-DE	DC voltage, current, power, energy	72x72mm LCD display	
PZ72L-DU	DC voltage		
PZ72L-DI	DC current		
PZ72L-DE	DC voltage, current, power, energy	48x96mm LED display	
PZ72-DU	DC voltmeter		
PZ72-DI	DC ammeter		
PZ72-DE	DC voltage, current, power, energy		

Note: /J means one relay output (multiplex with secondly switching value)

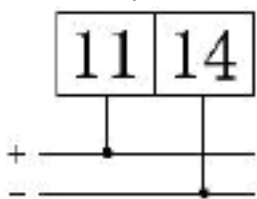
4. Wiring

4.5.1 power

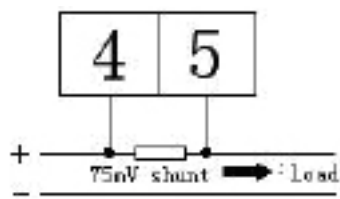


4.5.2 singal input

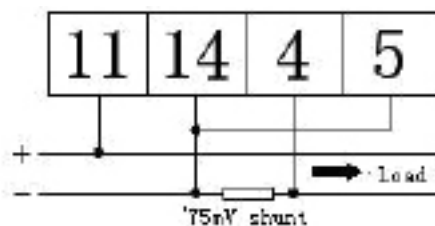
- Input directly



Voltage input

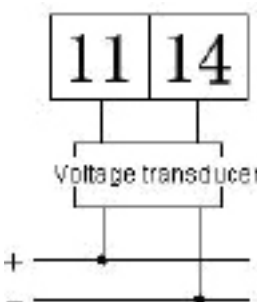


Current input

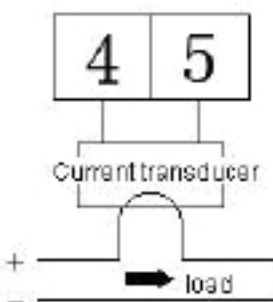


Voltage、current input

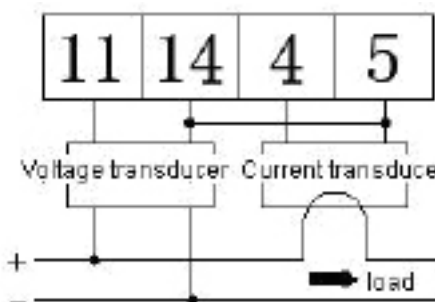
- Connected isolation DC shunt



Voltage input



Current input



Voltage、current input

5. Order example

When your order, please inform us the range of your measuring and the options.

For example:

Need the DC Power Meter, input DC10A, 48V, auxiliary power 48VDC, LCD display, with RS485
The product type is **PZ72L-DE/C (48V, 10A, Power 48VDC)**