

# KINGSINE PMC100 Single Phase Digital Power Meter 2 channel DI/DO



- Single phase electric parameter measurement and energy metering
- On-line monitoring of electric parameter limit alarm, relay relevance alarm output
- Support 2 channel DI/DO, can configure transducer output
- Support MODBUS-RTU, RS485 communication

## Overview

PMC100 series single phase digital power meter adopts customized, modularized, high brightness LED display, very beautiful and grand; use low-power microprocessor as core, to achieve all-electric parameter measurement and energy metering. Can optional configure various binary, relay, analog output interface to achieve user's various needs; integrates RS-485 communication ports, can easily fulfill the integration of various intelligent distribution System. The product function is practical, easy to use and maintenance. Can be used in on-site equipment monitoring and control , provide measure support for electric application experts, provide data basis for SCADA and Smart Grid, provide decision-making basis for effective intelligent energy management.

## Function Features

Function Features	PMC100 Z	PMC100 C	PMC100 P	PMC100 F	PMC100 U	PMC100 OI	PMC100 N
Instantaneous real virtual value							
current	◆		◆			◆	◆

voltage	◆		◆		◆		◆
frequency	◆			◆			◆
active power	◆		◆				◆
reactive power	◆						◆
power factor	◆	◆					◆
Energy							
active energy	◆						◆
Communication							
RS485 /MODBUS protocol	◆	◆	◆	◆	◆	◆	◆
Display							
LED display	◆	◆	◆	◆	◆	◆	
other							
2 channel DI	◆	◆	◆	◆	◆	◆	
2 channel DO	◆	◆	◆	◆	◆	◆	
1 channel AO :4-20mA	◆	◆	◆	◆	◆	◆	
2 channel limits alarm	◆	◆	◆	◆	◆	◆	◆
support program online upgrade	◆	◆	◆	◆	◆	◆	◆

## Technical Parameter

Electrical Characteristics		
Measurement Type		single phase AC system
		Sampling rate per cycle: 64 times
Data refresh rate		1S
Measurement Accuracy	Current	0.2%
	Voltage	0.2%
	Power	0.5%
	Frequency	0.05Hz
	Active Energy	1.0%
	AO	1%
Input voltage characteristics	Measuring voltage	0~600 V (Direct Access)
	Allowed overload	1.2 times / continuous
	Input impedance	1.8MΩ
Input current characteristic	Measuring current	5A or 1A (Via CT Connect)

	Allowed overload	1.2 times / continuous
	Input impedance	<0.1Ω
Binary INPUT	Working voltage	12~24 VDC (external power supply)
	Input impedance	12KΩ
	Isolation voltage	2KV
Relay output	Node Type	Mechanical shock
	Node capacity	220 VAC/5A, 30 VDC/5A
4-20mA DC Output	Open circuit voltage	5VDC
	overload capacity	≤200Ω
	Isolation voltage	2KV
Working power supply	AC	85~265 VAC/45-65Hz
	DC	100~300 VDC
	Power dissipation	<2.5W
Mechanical properties		
Weight		0.3kg
IP protection grade		panel IP52, body IP30
Size		96 X 48 X 72 mm
Operating temperature		-25~70°C
Storage Temperature		-40~85°C
Relative Humidity		5% - 90%RH, No condensation
EMC		
Electrostatic discharge interference		IEC 61000-4-2, Level 4
Group of anti-fast transient pulse		IEC 61000-4-4, Level 4
Anti-impact		IEC 61000-4-5, Level 3
Anti-frequency magnetic field		IEC 61000-4-8, Level 3
Electrical insulation performance		
Insulation resistance		GB/T13729, >50MΩ
Frequency withstand voltage		GB/T13729, AC 2KV 50Hz /1min
Impulse voltage		GB/T13729, 5KV, 1.2/50us