KINGSINE MODBUS-RTU, RS485 PMC100N Single Phase Network Power Meter

- Single phase electric parameter measurement and energy metering
- On-line monitoring of electric parameter limit alarm
- Network meter without LCD operation panel, optional transducer function output
- Support MODBUS-RTU, RS485 communication

Overview

PMC100N single phase network power meter is a multifunctional network meter without LCD operation panel. It adopts low power dissipation microprocessor, can measuring complete power parameter, energy measurement. It has RS-485 communication port and could be easily integrated to any intelligent power distribution system. PMC180N has the practical function, easy use, easy maintenance. It can use to monitor and control of the on-site equipment, supply the measuring & testing support to the power application specialist, supply the data base to the SCADA and Smart Grid, provide scientific basis for intelligent energy management.

Function Features

Function Features	PMC100 Z	PMC100 C	PMC100 P	PMC100 F	PMC100 U	PMC10 0I	PMC100 N
Instantaneous real virtual val ue							
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%
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 AC input	Open circuit voltage	5VDC
	overload capacity	≤200Ω
	Isolation voltage	2KV
	AC	85~265 VAC/45-65Hz
	DC	100~300 VDC
	Power dissipation	< 2.5W
Mechanical properties		
Weight		0.3kg
IP protection grade		IP52
Size		75 X 55 X120 mm
Operating temperature		-25~70℃
Storage Temperature		-40~85℃
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