

## Feature

- Suit for 220V AC low voltage system
- 6 +1 digits LCD display (999999.9 kWh)
- kWh accuracy class 0.5S
- LED indicates pulse, reverse energy
- 3 keys for programming
- CT programmable, pulse output
- 35mm DIN rail installing, standard DIN ED5002
- High temperature resistant materials
- Spring type buckle, easy to install
- Standard: IEC62053-21/ 22/23, CE, KEMA

## Basic Function

- Measure and display kWh value
- One RS485 communication
- Support Modbus-RTU
- Other real time data via RS485: V, I, P, Q, S, PF, F

## Optional Function

- Multi-tariff
- Reactive energy measuring
- Demand analysis

## Technical Specification

<b>Rated current</b>	10(40)A, 10(60)A, 20(100)A or 5A/ CT
<b>Rated voltage</b>	AC 220Vph-N, 50Hz (optional 120V, 60Hz)
<b>Input consumption</b>	<2VA
<b>Overload</b>	115% of rated
<b>Pulse output</b>	1 or 2 channels
<b>Pulse output value</b>	PMAC901:1000imp/kWh PMAC903: 400imp/ kWh (40A or 60A) 200imp/ kWh (100A) 3600imp/ kWh (5A/ CT)

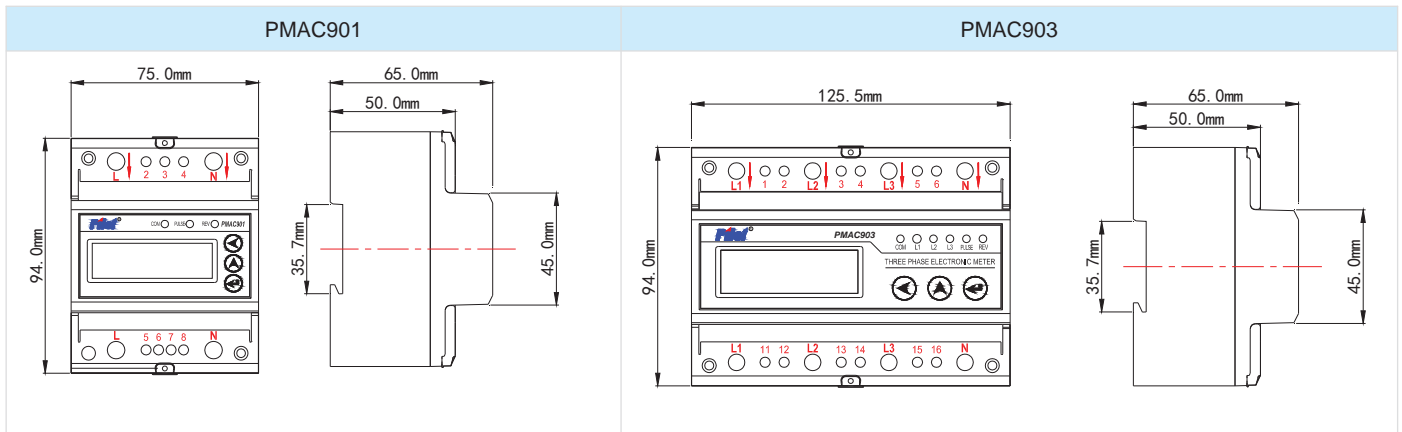
<b>Connection mode</b>	PMAC901: 1-phase 2-wire PMAC903: 3-phase 4-wire
<b>Impulse duration</b>	80 ms
<b>Power supply</b>	Self supply, 220VAC, 50-60Hz
<b>Communication</b>	RS485 serial, Modbus-RTU Baud rate: 4800 or 9600bps Address: 1~247
<b>Environment</b>	Operating temperature: -20°C ~ +55 °C Storage temperature: -20°C ~ +55 °C Humidity: 5%~95% non-condensing

### Standard (EMC)

Electrostatic discharge immunity test	IEC 61000-4-2,Level 4	Surge immunity test (1, 2/50 μs ~ 8/20 μs)	IEC 61000-4-5,Level 4
Radiated immunity test	IEC 61000-4-3,Level 3	Conducted emissions	EN 55022,Class B
Electrical fast transient/burst immunity test	IEC 61000-4-4,Level 4	Radiated emissions	EN 55022,Class B

Parameter	Accuracy		Resolution	Measuring Range	
	PMAC901	PMAC903			
Communication data	Voltage	0.2%	0.2%	0.01V	198V~242V (L-N)
	Current	0.2%	0.2%	0.001A	0.5~4995A
	Active power	0.5%	0.5%	0.1W	0~1MW
	Reactive power	No	1.0%	0.1Var	0~1Mvar
	Apparent power	0.5%	0.5%	0.1VA	0~1MVA
	Power factor	No	0.5%	0.001	-1.000~+1.000
	Frequency	No	0.01	0.01Hz	45Hz~65Hz
Display data	Active energy	Class 0.5S	Class 0.5S	0.1kWh	0~999999.9 kWh
	Reactive energy	No	Class 2	0.1kVarh	0~999999.9 kvarh

## Dimension



## Order Information

PMAC901--①--②--③--④  
 PMAC903--①--②--③--④

<b>C</b>	One RS485 communication
<b>1</b> <b>0.5S</b>	Active energy accuracy: Class 1 Active energy accuracy: Class 0.5S
<b>40</b> <b>60</b> <b>100</b> <b>5</b>	Rated current: 10 (40)A Rated current: 10 (60)A Rated current: 20 (100)A Rated current: 5A / CT (when In>100A, connect via CT)
<b>F</b> <b>Q</b> <b>D</b>	TOU (Multi-tariff) Reactive energy measuring (only available for PMAC903) Demand analysis (only available for PMAC903)

Note: PMAC901, 903 default rated voltage 220V, frequency 50Hz. Other customized input such as 120V or 60Hz is available, please mention the requirement before place order.

**Example 1:** Model No. PMAC901-C-1-40-F, which indicates the device provides basic function, rated current is 40A (direct), accuracy class 1, and measure multi-tariff

**Example 2:** Model No. PMAC903-C-1-5-Q, which indicates the device provides basic function, rated current is 5A / CT, accuracy class 1, and measure reactive energy