

## Description

DFPM951X Series is a DIN Rail Relay Control Energy Meter can accurately and directly measure energy consumption and billing. The meters has Relay function, support to control the switch on/off remotely. It can Max. support 80A direct input. With Modbus-RTU protocol and RS485 port, the meter also support connect into 3rd party system.



**DFPM9511**  
Single Phase

## Feature

- Suit for 120V, 220V, 230V, 240V AC Power System
- 7+1 digits LCD display (9999999.9kWh)
- High accuracy: Class 0.5s for 5A via CT, Class 1.0 for 80A direct input
- 3 keys for programming, 35mm DIN Rail installation, standard DIN ED5002
- 1 LED indicates pulses output, standard DIN 43864
- Support reading and inquiry data when power off
- Standard: IEC62053-21/22

## Function

- **Measure** -- U, I, P, Q, S, PF, F, kWh, kvarh, multi-tariff energy (kWh, kvarh)
- **Relay Control** -- for remote control circuit switch on/off
- **TOU (Multi-tariff)** -- 4 tariffs and 8 time periods in 24 hours
- **Historical Record** -- kWh, kvarh, Max. P for last 31 days (Per 15min. ) and last 12 months data; last 200 alarms and last 20 times power off
- **Alarm** -- anti-temper alarm, over-load alarm, swich on/off alarm, over-voltage alarm, under-voltage alarm, reversed connection alarm etc.
- **Communication** -- one RS485 port, MODBUS-RTU Protocol



**DFPM9513**  
Three Phase

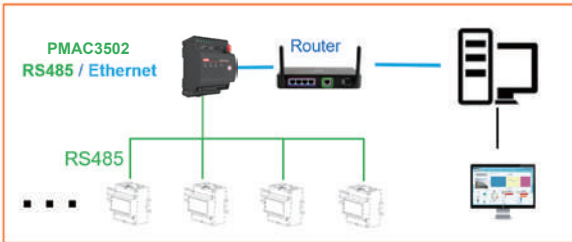
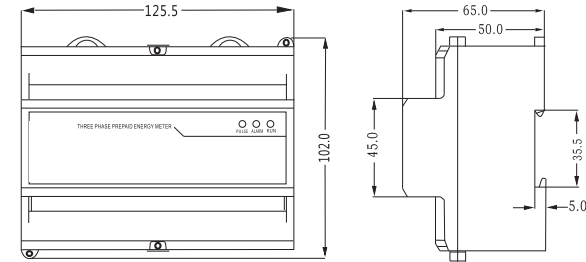
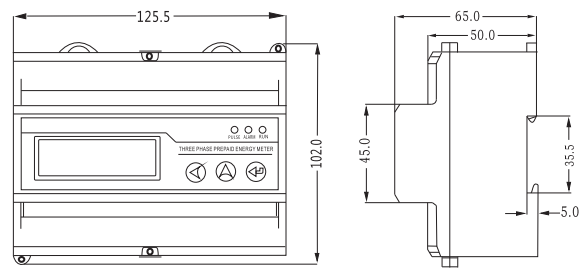
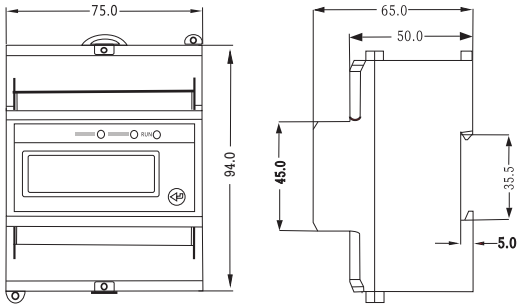
## Technical Specification

<b>Accuracy</b>	Class 0.5s: 5 (6) A Class 1.0: 10 (80)A	<b>Starting Current</b>	0.4% Ib
<b>Current</b>	DFPM9511: Direct: 10 (80) A DFPM9513: Direct: 10(80)A, 5(6)A via CT	<b>Communication</b>	RS485 port, MODBUS-RTU Baud rate: 2400、4800、9600 Address: 1~247
<b>Rated Voltage</b>	DFPM9511: 220V, 120V, 240V (Optional) DFPM9513: 220/380V, 120/208V, 240V/415V (Optional)	<b>Insulation</b>	Withstand voltage: 2kV, Impulse voltage:6kV
<b>Power Supply</b>	Self Supply (Note: for DFPM9513, RS485 won't work if only connect 1 phase voltage) Overload: 1.2 times	<b>Historical Record</b>	- kWh, kvarh, Max. P for last 31 days (Per 15min.) and last 12 months data - Last 200 alarms records - Last 20 times power off
<b>Relay Control</b>	Support control circuit switch on/off <b>build-in relay module</b> for DFPM9511/DFPM9513 direct module 10(80)A <b>need to add DFPM9513-R relay module</b> for DFPM9513 5(6)A via CT	<b>EMC Standard</b>	Electrostatic discharge immunity test IEC 61000-4-2,Level 4 Radiated immunity test IEC 61000-4-3,Level 3 Electrical fast transient/burst immunity test IEC 61000-4-4,Level 4 Surge immunity test (1, 2/50μs~8/20μs) IEC 61000-4-5,Level 4 Conducted emission EN55022, Class B Radiated emission EN55022, Class B
<b>Pulse Output</b>	1 Channel (Settable for kWh or kvarh) constant: 1600imp/kWh/kvarh	<b>Environment</b>	Operating temperature: -20 ℃~ +55 ℃ Storage temperature: -40 ℃~ +70 ℃ Humidity: 5%~95% non-condensing
<b>Frequency</b>	50/60Hz		
<b>Power Consumption</b>	<2W/10VA each phase		
<b>Wire Diameters</b>	7mm*7mm (16mm <sup>2</sup> )		

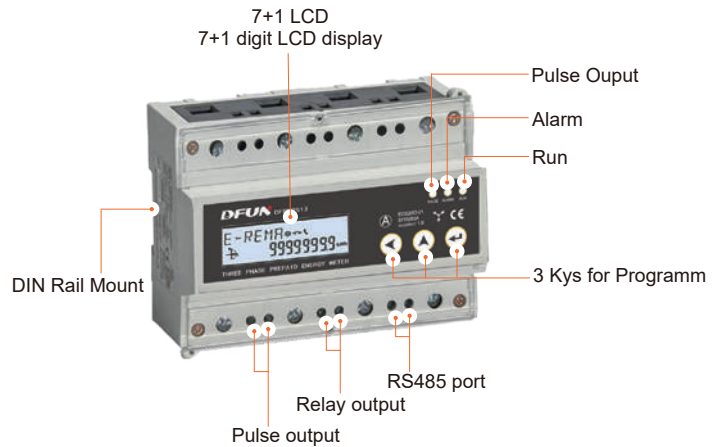
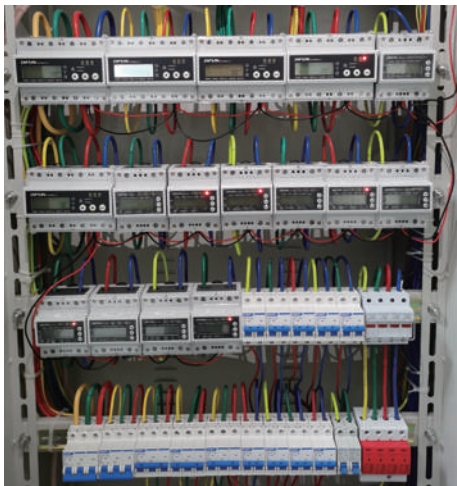
# DFPM951X Series Relay Control Energy Meter

## Dimension & Installation

Unit: mm



Relay Control for DFPM9513 5(6)A via CT



## Order Information

### DFPM9511 (Single Phase)

① -- ② -- ③

<b>80</b>	10(80)A direct
<b>V1</b>	220V, Suit for 220, 230Vac ph-N
<b>V2</b>	120V, Suit for 110, 120Vac ph-N
<b>V3</b>	240V
<b>50</b>	50Hz
<b>60</b>	60Hz

### DFPM9513 (Three Phase)

① -- ② -- ③

<b>A-80</b>	10(80)A direct
<b>D-5</b>	5(6) for external CT
<b>V1</b>	220/ 380V, Suit for 220, 230Vac ph-N
<b>V2</b>	120/ 208V, Suit for 110, 120Vac ph-N
<b>V3</b>	240/415V
<b>50</b>	50Hz
<b>60</b>	60Hz

### DFPM9513 --R (Relay Control module) for DFPM9513-D

**Note:**

- DFPM9511 has built-in relay module
- DFPM9513-A 80A direct input model need to add DFPM9513-R relay module to realize remote control switch
- DFPM9513-D 5A via CT module need to add AC contactor and relay switch to realize remote control switch