

# EVA-P220

# EVA-P228

## DIN-Rail Power Meter

## Multi-loops Power Meter

NEW



EVA-P220



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## Introduction

EVA-P series power meters are easy to use, cost effective smart meters, that provide high accuracy measurement, display and communication (Modbus RTU). Characterized by their compact size, and flexible connection mode. EVA-P series meters are ideal for power monitoring operations and equipment preventative maintenance.

## Specifications

### Input

- **Measurement Type** True RMS measurement
- **Phase & Wiring** 1P2W / 1P3W/ 3P3W(1/2/3CT) / 3P4W (1/3CT)  
Balanced/ Unbalance  
Programmable by front buttons(Actual wiring must be same)
- **Input range** Voltage: 20 ~ 400 VLN; 35~600VLL  
PT Primary range: 100-1200kV  
PT Secondary range: 50-500V  
Current: 5A / 1A / 333mV  
CT Primary range: 1 ~ 9999A  
Frequency: 45 ~ 65Hz
- **CT input type** 333mV
- **Sampling rate** 128
- **Input burden** Voltage: < 0.2VA, Current: < 0.1VA
- **Accuracy & Resolution**

Parameter	Accuracy	Resolution	Parameter	Accuracy	Resolution
Voltage	0.2%	0.1 V	Power Factor	0.5%	0.001
Current	0.2%	0.001 A	Frequency	0.05%	0.01 Hz
Neutral Current	1.0%	0.001 A	Active Energy	0.5%	0.1 kWh
Active Power	0.5%	1 W	Reactive Energy	0.5%	0.1 kVarh
Reactive Power	0.5%	1 Var	THD	1.0%	0.1%
Apparent Power	0.5%	1 VA			

### Communication

- **RS485 port** Up to 115.2kbps bauds, Modbus RTU

### Environmental

- **Operating Temp.** 0 ~ 60°C
- **Operating Hum(%RH)** 5 ~ 95%RH, non-condensing
- **Storage Temperature** -10 ~ 70°C

### General

- **Certification** EN 61326: 2021, EN 61010-1:2010
- **Dimension(W x D x H)** 72 mm x 59 mm x 88 mm
- **Power Requirements** AC 85 ~ 264V / DC 100 ~ 300V
- **Power consumption** AC: ≤ 5VA / DC: ≤ 2W @ 230V

### Mechanical

- **Case material** ABS, Black (fireproof)
- **Mounting** DIN-Rail mounting
- **Weight** 195g

## Specifications

### Input

- **Measurement Type** True RMS measurement
- **Phase & Wiring** 1P2W / 1P3W/ 3P3W(1/2/3CT) / 3P4W (1/3CT)
- **Input range** Voltage: 20 ~ 400VLN; 35~690VLL  
PT Primary range: 100~9999V  
PT Secondary range: 50 ~ 500V  
Current: Depends on external CT  
CT Primary range: 5~9999A  
Frequency: 45 ~ 65Hz
- **CT input type** 333mV
- **Sampling rate** 128
- **Input burden** Voltage: < 0.2VA, Current: < 0.1VA
- **Accuracy & Resolution**

Parameter	Accuracy	Resolution	Parameter	Accuracy	Resolution
Voltage	0.2%	0.1 V	Apparent Power	0.5%	1 VA
Current	0.2%	0.001 A	Power Factor	0.5%	0.001
Neutral Current	1.0%	0.001 A	Frequency	0.1%	0.01 Hz
Active Power	0.5%	1 W	Active Energy	0.5%	0.1 kWh
Reactive Power	0.5%	1 Var	Reactive Energy	0.5%	0.1 kVarh

### Communication

- **RS485 port** Up to 115.2kbps bauds, Modbus RTU

### Environmental

- **Operating Temp.** 0 ~ 60°C
- **Operating Hum(%RH)** 5 ~ 95 RH, non-condensing
- **Storage Temperature** -10 ~ 70°C

### General

- **Certification** EN 61326:2013, EN 61010-1:2010
- **Dimension(W x D x H)** 199 mm x 118 mm x 77 mm
- **Power Requirements** AC 85 ~ 264V / DC 100 ~ 300V (50 / 60Hz)
- **Power Consumption** AC: ≤ 15VA / DC: ≤ 2W

### Mechanical

- **Case Material** ABS, Black (fireproof)
- **Mounting** DIN-Rail
- **Weight** 685 g

## Ordering Information

- **EVA-P220-MVA** DIN-Rail Power Meter for CT sensor with 333mV input
- **EVA-P220-15AA** DIN-Rail Power Meter for CT sensor with 1/5A input
- **EVA-P228-MVA** Multi-loops Power Meter for CT sensor with 333mV input

### Current Transformer Sensor

P/N	Primary current	Output
96PD-01288	100A	333mV
96PD-01289	200A	
96PD-01290	300A	
96PD-01291	400A	
96PD-01292	600A	