

DC Digital Power Meter

This DC digital power meter accurately measures DC voltage and current, displaying power and total electricity consumption. It features an RS485 interface, supports the MODBUS-RTU communication protocol, and uploads collected data.



ADDITIONAL IMAGES



Overview

E1-3P DC Energy Meter

The E1-3P is a highly integrated DC power measurement terminal designed for precise monitoring of electrical parameters in DC systems. It features a clear, white backlit LCD display and supports RS485 communication with MODBUS-RTU protocol for seamless data integration. Built for reliability and versatility, this meter is ideal for electric power, telecommunications, transportation, and renewable energy applications, including solar and EV infrastructure.

Key Features

- High precision measurement
- Compact size with 35mm rail installation
- High isolation voltage for security
- RS485 communication interface
- White backlit LCD display

Voltage & Current Input

Voltage Input Specifications

Parameter	Value
Rated Value	0-1000V
Overload (Measurement)	1.2 times
Overload (Instantaneous)	2 times/10s
Impedance	>1 k Ω
Accuracy Grade	0.5%FS

Current Input Specifications

Parameter	Value
Rated Value	Shunt: 75mV (conventional)
Overload (Measurement)	1.2 times
Overload (Instantaneous)	10 times/1s
Impedance	<100m Ω
Accuracy Grade	0.5%FS

Technical Specifications

Power Supply	AC/DC 85V~265V
Power Consumption	4 VA
Communication Interface	RS-485, MODBUS-RTU
Dimensions	104mm x 50mm x 63mm

Environmental & Safety

Operating Temperature	-25 to 55 °C
Storage Temperature	-30 to 75 °C
Insulation Resistance	> 5M Ω chassis

Applications

Suitable Industries	Telecommunications, Transportation, Renewable Energy, Petrochemical, Steel Industry, Data Centers
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