

DC Power Meter with Hall Sensor

This DC energy meter is a multi-channel, multi-function, high-performance terminal device for automatic DC power measurement. It provides a precision monitoring solution for DC bus circuits with up to 4 DC input channels.



ADDITIONAL IMAGES



Overview

Advanced Multi-Channel DC Energy Metering

The DCEM-5MC is a high-performance energy meter engineered for precise multi-channel DC system monitoring. It provides real-time visualization of voltage, current, power, and cumulative energy data, making it an essential tool for industrial automation, renewable energy systems, and telecommunications. With support for RS-485 communication and versatile Hall sensor inputs, this meter offers flexible integration into complex monitoring centers.

Technical Specifications

Accuracy Classes

| | | | |
|---------------------------|---------------------------|------------------------------|------------------------|
| 0.5 %fs Current | 0.5 %fs Voltage | 1 %fs Active Power | 1 %fs Energy |
|---------------------------|---------------------------|------------------------------|------------------------|

Input & Electrical

| Parameter | Specification |
|-----------------------|--|
| Current Input | Hall Effective CT, aux +/-15VDC, 4V signal |
| Load Current | <0.5VA/phase (rated 5A) |
| Power Supply | 85-265VDC/AC (20-60VDC Optional) |
| Max Power Consumption | 4VA |

Features & Capabilities

Key Features

- Modbus-RS485 communication interface
- Multi-function LCD display
- High isolation voltage (up to AC2000V)
- 12-segment time-of-use metering
- 35mm standard DIN rail installation

Optional I/O

2-channel digital output, 4-channel digital input, 1-channel configurable energy pulse output

Environmental & Physical

Operating Environment

| Condition | Temperature | Humidity |
|-----------|-------------|---------------|
| Operating | -20 to 60°C | 20% to 95% RH |
| Storage | -25 to 70°C | 20% to 95% RH |

Protection Rating

IP40 (Panel)

Dimensions

87.3mm x 132mm x 46.5mm

Applications

Typical Applications

DC Energy Management, Solar/PV Arrays, Wind Turbines, EV Charging, Telecommunications, Data Centers, Industrial Automation