

# Dual-Channel DC Energy Meter for EV Charging

The Dual-Channel DC Energy Meter is designed for power measuring and fiscal billing within an EV Charger station. This meter measures DC currents, power, total electricity, voltage, and forward and reverse electric energy.



## ADDITIONAL IMAGES



## Overview

### Dual-Channel DC Energy Meter for EV Charging

The DCEM-4MS is a versatile energy metering solution designed specifically for electric vehicle charging infrastructure. It supports both single and dual-channel configurations, allowing for flexible monitoring of DC voltage, current, and power consumption. With its robust Modbus RTU communication protocol and high-precision measurement capabilities, it integrates seamlessly into various EV charging management systems.

## Technical Specifications

### Protection Rating

IP54 Panel • IP20 Shell

### Communication Interface

RS-485 Modbus RTU

### Current Sensor Compatibility

0-75mV DC Shunt, 5A Hall Effect, 20A Hall Effect, 50A Hall Effect, 100A Hall Effect, 200A Hall Effect, 300A Hall Effect, 400A Hall Effect, 500A Hall Effect

### Installation

35mm DIN Rail

## Measurement Capabilities

### Measured Parameters

- Voltage (U)
- Current (I)
- Power (P)
- Energy (PE)
- Max/Min Values
- Demand Measurement
- Time Recording

### Standards Compliance

IEC61000-4-2-III, IEC61000-4-4-IV, IEC61000-4-5-IV, IEC62053-21 Class 1, IEC62053-22 Class 1

## Compatibility

### Supported Charging Capacities (kWh)

- 7
- 11
- 30
- 50
- 60
- 90
- 120
- 150
- 180
- 240
- 350
- 360
- 480