

Three-Phase DIN-Rail Energy Meter

This three-phase energy meter mounts on a DIN-rail for easy installation. It accurately measures electrical energy consumption with a digital display for voltage readings and multiple terminals for connection.



Product Overview

Intelligent Three-Phase Energy Monitoring

The 19D series is a high-precision DIN-rail mounted energy meter designed for smart energy projects and residential metering. It supports seamless integration with data acquisition systems via Modbus-RTU and pulse outputs, offering flexible communication options including 4G, 5G, and LoRa. This intelligent device is ideal for medium and low voltage systems, providing comprehensive measurement, electricity accumulation, and optional multi-rate billing functions.

Tamper-Proof Design	Yes
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Core Performance

Performance Highlights

0.5 Class

Active Power Accuracy

80 A

Max Direct Current

400 Vac

Max Voltage Input

1600 imp/kWh

Pulse Constant

Measurement & Accuracy

Accuracy Standards

Parameter	Accuracy Range
Current/Voltage	0.2% RMS
Active Power	0.5%
Reactive Power	1%
Utility Revenue Grade	IEC 62053-21 Class 1.0 / IEC 62053-22 Class 0.5

Technical Specifications

Current Input Options

- 80A Direct Input
- 5A/1A CT Input
- 333mV CT Input
- 100mA CT Input

Input Voltage Range	100V, 220V, 380V (Direct 10-400Vac)
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Frequency Compatibility	50Hz, 60Hz, 40-65Hz Range
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Communication & Connectivity

Supported Protocols

Modbus-RTU • DL/T645-2007 • RS485

Wireless Transmission

4G, 5G, LoRa

Physical & Environmental

Mounting

35mm DIN-rail

IP Protection

IP40 Front Panel / IP20 Casing

Module Width

4 modules

Operating Temperature

-10°C to 55°C

Applications

Primary Applications

- Tenant sub-billing and cost allocation
- Energy efficiency benchmarking
- Medium and low voltage systems (6-35KV and 0.4KV)
- Demand response and load curtailment
- Mechanical meter replacement