

# 240V DIN Rail WiFi Energy Meter with LCD

This 240V energy meter is designed for DIN rail installation. It features WiFi connectivity and an LCD screen for convenient monitoring of electrical parameters.



## Overview

### Modular Multi-Function Energy Metering System

The 19D-NX is a next-generation modular DIN-rail power meter designed for flexible on-site integrated metering. By utilizing 3M width expansion modules, it can scale to support up to 40x3P4W or 120x1P2W energy metering systems, making it ideal for complex tenant sub-billing and cost allocation. Featuring a 6-inch dot matrix LCD and programmable digital inputs/outputs, it provides high-precision monitoring for energy efficiency and procurement optimization.

## Key Features

### Performance Highlights

**0.5 Class**

Metering Accuracy

**15 W**

Drive Capacity

**6 inch**

LCD Screen Size

## Measurement Capabilities

### Voltage Measurement (TRMS)

| Parameter         | Specification      |
|-------------------|--------------------|
| Measurement Range | 18...300VAC        |
| PT Secondary      | 100VAC / 400VAC    |
| Accuracy          | 0.5% (IEC61557-12) |
| Input Consumption | <0.1VA             |
| Impedance         | >1M $\Omega$       |

### Current Measurement (TRMS)

| Parameter           | Specification                |
|---------------------|------------------------------|
| CT Secondary Rating | 100mA, 50mA, 2.5mA           |
| Measurement Range   | 0~11kA                       |
| Accuracy            | 0.5% (IEC61557-12)           |
| Overload Capacity   | 1.2x continuous, 10x for 10s |

## Energy Accuracy

### Compliance Standards

- Active Energy: Class 1.0 (IEC 62053-22)
- Reactive Energy: Class 2.0 (IEC 62053-23)
- Frequency Accuracy:  $\pm 0.02\text{Hz}$

## Communication & IoT

### Communication Protocols

RS485 Modbus-RTU, Optional Ethernet, Optional IoT Module, 4800/9600 bauds

## Installation & Power

### Mounting

DIN Rail

### Auxiliary Power Supply

85-265VAC/DC (Universal) or 12VDC Rating

## Applications

### Primary Applications

Tenant Sub-billing • Cost Allocation • Energy Efficiency • Demand Response • Load Curtailment

## Safety

### Isolation Withstand Voltage

1 KV/1min