

Single Phase Smart Energy Meter with PLC/RF Module

This single phase smart energy meter measures both import and export active energy. It features time of use and step functions, with PLC or RF module options for communication and remote load control.



Overview

Smart Energy Metering Solution

The DDZY217(S23-1) is a high-precision single-phase smart energy meter designed for reliable import and export active energy measurement. It features advanced TOU (Time of Use) and step tariff functions, with remote load management capabilities via disconnection and reconnection. Equipped with versatile communication options including PLC, RF, and RS485, this meter ensures seamless integration into modern smart grid infrastructures while maintaining strict compliance with DLMS/COSEM protocols.

Technical Specifications

Accuracy Class

Active: Class 1

Current Range

- 5(60)A
- 5(100)A

Reference Voltage	120V, 220V, 230V, 240V
Reference Frequency	50 Hz
Power Consumption	<1.5W, 6VA
RTC Deviation	d0.5/d
Expected Lifetime	15 years

Environmental & Physical

Operation Temperature	-25 to +60
Limited Temperature Range	-40 to +70
Physical Dimensions	223mm(L) x 112mm(W) x 71mm(H)
Net Weight	0.9 kg

Communication & Protocols

Standards Compliance

Category	Standard
General	IEC62052-11; IEC62053-21; IEC62053-23
Protocol	IEC62056-21/42/46/53/61/62

Communication Interfaces	RS485, RS232, PLC, RF, Optical Port
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