MERHEIN
Technical Datasheet

20 April 2026

Single Phase STS Split Type Prepaid Meter

This single phase STS split type prepaid meter provides metering, monitoring, alarm, display, communication, and load control. It utilizes the STS standard encryption algorithm for secure information exchange via TOKEN.

Overview

Smart Prepaid Metering Solution

The DDZY217(KP2-1) is a robust single-phase, split-type prepaid meter designed for efficient energy management in residential and light commercial settings. Utilizing the STS standard encryption algorithm for secure token-based credit exchange, it ensures high metering accuracy and reliable load control. The system features a separate Meter Unit (MU) and User Interface Unit (UIU), offering enhanced security against tampering and convenient user interaction.

Key Features

Core Functionalities	STS Standard Encryption, Load Control, Anti-Tamper, Friendly Power Supply, Event Logging

Technical Specifications

Accuracy Class

Active: Class 1

Electrical Ratings

230 V	50 Hz
Reference Voltage	Reference Frequency

Current Ratings

- 5(60)A
- 10(80)A

Power Consumption	<1.5W, 6VA

Environment & Durability

Operating Temperature	-25°C to +60°C
Design Life	15 years

Communication & Interface

Communication Ports	Optical Port, RS485

Physical Dimensions

Size	150mm x 100mm x 40mm
Net Weight	0.7 kg

Compliance

International Standards

- IEC62052-11
- IEC62053-21
- IEC62055-41
- IEC62053-23
- IEC62055-51
- IEC62055-31