

# Three-Phase Smart Meter with DLMS Communication

This three-phase smart meter measures import and export active and reactive energy. It supports multiple voltage configurations and includes an optical port and plug-and-play module options such as GPRS, RF, PLC, and Zigbee.



## Overview

### Three-Phase Smart Meter with DLMS Communication

The DTZY217 (T13-1) is a high-performance three-phase smart meter designed for accurate measurement of both import and export active and reactive energy. It features a wide voltage range and supports four tariffs, making it ideal for complex energy management needs. With built-in support for plug-and-play communication modules like GPRS, RF, PLC, and Zigbee, it offers flexible integration into modern smart grid infrastructures.

## Technical Specifications

### Accuracy Class

| Energy Type     | Class            |
|-----------------|------------------|
| Active Energy   | 0.2S, 0.5S, or 1 |
| Reactive Energy | 2                |

### Standards Compliance

IEC62052-11, IEC62053-21, IEC62053-22, IEC62053-23, IEC62056-21, IEC62056-42, IEC62056-46, IEC62056-53, IEC62056-61, IEC62056-62

## Electrical Ratings

### Reference Voltage

- 3x57.7/100V
- 3x120/208V
- 3x220/380V
- 3x230/400V

### Current Configurations

- CT Connection: 1.5(6)A, 5(6)A, 5(10)A
- Direct Connection: 10(40)A, 10(60)A, 20(80)A, 10(100)A

### Reference Frequency

50 Hz

## Performance

### Power Consumption

**1.5 W**

Active Power

**6 VA/phase**

Apparent Power

RTC Deviation

d0.5/d

Expected Lifetime

15 years

## Environment

Operating Temperature Range

-25°C to +60°C

Limited Temperature Range

-40°C to +70°C

## Physical Dimensions

Dimensions (LxWxH)

290mm x 170mm x 85mm

Net Weight

2.8 kg

## Features

Communication Interfaces

RS485, RS232, Optical Port, Plug & Play Module (GPRS/RF/PLC/Zigbee)