

# Three-Phase Multifunction Electronic Energy Meter

This three-phase multifunction electronic energy meter measures import and export active energy, as well as inductive and capacitive reactive energy. It includes an anti-tamper function that alarms in the event of detected tamper events, such as current reversal or voltage phase sequence reversal.



## Overview

### Three-Phase Multifunction Energy Meter

The DTZ217 (T10-1) is a robust three-phase, four-wire electronic energy meter designed for precise measurement of import and export active energy, as well as inductive and capacitive reactive energy. Equipped with Time-of-Use (TOU) functionality and advanced anti-tamper security, it provides reliable data logging and monitoring for professional applications. The device supports multiple communication interfaces, including optical, RS485, and RS232, ensuring flexible integration into existing metering infrastructure.

## Technical Specifications

### Accuracy Class

Energy Type	Class
Active	0.2S / 0.5S / 1
Reactive	2

Standards Compliance	IEC62052-11, IEC62053-21, IEC62053-22, IEC62053-23
Communication Protocols	IEC62056-21, IEC62056-42, IEC62056-46, IEC62056-53, IEC62056-61, IEC62056-62

## Electrical Ratings

### Reference Voltage Options

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

### Current Connection Types

- 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
Power Consumption	<1.5W, 6VA (per phase)

## Environment & Durability

Operating Temperature Range	-25°C to +60°C
Limited Operating Temperature	-40°C to +70°C
Expected Lifetime	15 years

## Physical Dimensions

Dimensions (LxWxH)	290mm x 170mm x 85mm
Net Weight	2.8 kg

## Advanced Features

### Tamper Detection Alarms

Current Reversal • Phase Sequence Reverse • Meter Cover Open • Terminal Cover Open • Bypass

### Communication Interfaces

- Optical Port
- RS485
- RS232