

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