

SM207

Single Phase Smart Electricity Meter

The meter is designed to measure active and reactive electrical energy in single-phase alternating current circuits with a frequency of 50 Hz at a voltage of 230 V and the organization of multi-tariff electricity metering.

The meter is designed for use in places with additional protection from environmental influences: indoors or in a cabinet, in a dashboard.



Key Features

Built-in communication interfaces

OPTOPORT+Radio,
OPTOPORT+PLC,
OPTOPORT+RS-485,
OPTOPORT+Radio+PLC

Dual current control

Measurement by phase and neutral allows you to detect theft and eliminates unaccounted-for consumption.

Protection against interference

Recording of the opening of the case, magnetic and radio effects with recording of all events.

Advanced multi-tariff accounting

Up to 8 tariffs with flexible schedule settings by day, season, and zone of the day.

Load management

The built-in relay allows you to limit the power and remotely disconnect the load.

Smart network control

Real-time measurement of voltage, current, power and power factor.

Analytics

Storage of detailed consumption profiles at intervals from 1 to 60 minutes.

Event Log

Registration of more than 600 events: accidents, interventions, exceedances and failures.

Working in harsh conditions

Stable operation at temperatures from -40 to +70°C.

Flexible configuration

Configure parameters, tariffs, limits, and scenarios to meet the requirements of the facility.

Parameter Value

	Length (L)	mm	210
	Width (W)	mm	120
	Height (H)	mm	72,8
	Weight	kg	0,6

Technical Specifications

Accuracy class for active energy/reactive energy	—	1/1
Rated voltage	V	230
Rated frequency of the AC network	Hz	50
Basic (maximum current)	A	5 (60) 5 (80) 5 (100)
Starting current	ma	10
Total power consumption: - along the current circuit - on the voltage circuit	In·A	no more than 0,3 no more than 10
Active power consumption	Vt	no more than 2
The speed of exchange through the optical port	bit/s	от 300 до 9600
Maximum number of tariffs	—	8
Data retention time	years	no more than 30
Initial launch time	sec	no more than 5
Operating conditions: - ambient temperature - relative humidity	°C %	up -40 to +70 up 30 to 95
Normal measurement conditions: - ambient temperature - relative humidity	°C %	up +20 to +30 up 30 to 80
Average service life	years	30
Average operating time per failure	ч	320000
Operating temperature range	°C	up -40 to +70
Degree of protection	—	IP51