

SM150 Series Single -phase Smart Prepayment Energy Meter



Brief Introduction

SM150 Series Single-phase Smart Prepayment Energy Meter is a highly advanced Smart Meter to measure single-phase AC active/reactive energy with frequency of 50/60Hz. It has a variety of sophisticated functions to realize Smart Measurement & Management of energy, with features of high accuracy, excellent sensitivity, good reliability, wide measurement range, and low consumption, solid structure and nice appearance etc. Equipped with optical port and field replaceable & hot swappable PLC(include G3-PLC FCC certificated), BPLC or GPRS communication module etc. makes it flexible to communicate with other devices and based on IDIS standard. The meter is fully complying with DLMS/COSEM IEC standards, allowing billing and management applications in IEC compliant countries for residential, commercial and industrial energy measurement and management.

Technical Specification

		SM150
Electrical	Nominal Voltage (V)	220, 230, 240
	Operating Range	0.7~1.3Un
	Nominal Current (A)	5,10
	Maximum Current (A)	60,80,100
	Frequency (Hz)	50Hz/60Hz
Accuracy	Active	Cl.B (EN 50470-3), 1.0 (IEC 62053-21)
	Reactive	Cl. 2 (IEC 62053-23) Option
Constant	Active (imp/kWh)	1000
	Reactive (imp/kvarh)	1000
RTC	Backup	Li-ion battery
	Accuracy	≤ 0.5 s/d
Environment	Operation Temperature	- 40 ~ + 70 °C
	Relative Humidity	≤95%
Housing	Protection class	IP54 indoor
	Terminal holes diameter (mm)	6 or 9(option)
	LWH (mm)	238 x 137 x 78.5
Weight (g)		Approx.885
	Connection type	1P2W
Local interface		Optical port
	Remote Communication	GPRS , or PLC(broadband , or G3 etc.) ,or RF, or RS485

Main Features

Measurement

- Unidirectional measurement of import and export active energy
- reactive energy (Option)
- Instantaneous parameters of voltage, current, power, frequency etc.
- Max demand measured by total and each tariff with timestamp, integration period is configurable from 1 to 60 minutes .

Time of Use

- Support up to 4 TOU configurable tariff with DST
- Support 8 time divisions, 8 day profiles, 4week profiles, 4 season profiles, and 50special days

Load Profiles

- Support recording load profile up to 6720 entries with date and time.
- Record of active and reactive energy with configurable time interval.

Prepayment

- Support Credit level Indication and Low Credit alarming
- Support friendly mode and over draft mode
- Keypad / Card (optional) to input Token

Communication

- Supports two-way communication locally and remotely via different interface
- Local communication(meter to local software or HHU) interfaces: optical
- Replaceable remote communication(meter to concentrator) modules: PLC , BPLC and GPRS.

Event Recording

- Capable to record events includes Standard events, fraud detection events, communication events, Power quality event and Token events.

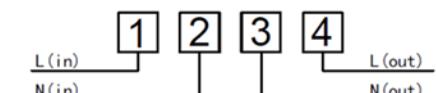
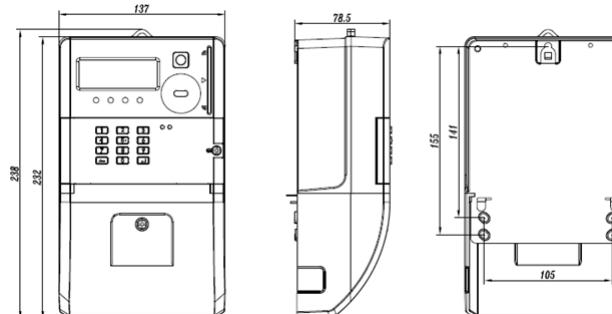
Load/Credit Management

- Internal load switch designed for load management and credit management.
- Configurable disconnection of load switch upon tampering events, credit balance run out, Overload, Power off etc.

Anti-tempering

- Temper proofing approaches includes temper event detecting, recording , alarming and reporting.
- Capable to detect meter cover, terminal cover open, magnetic interface, power reverse, bypass, load unbalance and wrong connection.

Dimensions



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