



S200

Single Phase Residential Postpaid Meter

Designed Residential consumers

Providing a strong foundation for your Smart Grid initiatives

Key Feature

- ◆ Accuracy: Class 1.0 for KWH, ability to detect and measure harmonics up to 15th order.
- ◆ Bi-directional and double channel measurement.
- ◆ Flexible load control with internal breaker. Operation normal under 500mT magnetic field
- ◆ Anti-tamper design.
- ◆ Support optical probe data fast reading .
- ◆ Pin hole function and Convenient clock setting.
- ◆ Abundant content display on LCD include power outage condition.

Technical Point

Description	Value
Voltage	
Reference voltage	230v
operating voltage range	50%-120%Un
Current	
Basic current	5A
Maximum current	60A
Starting current	0.2%Ib
Accuracy	Class 1.0 for kWh
Frequency	
Rated frequency	50Hz
Frequency range	±2%
Pulse constant	1600 imp/kWh
Temperature	
Normal Operation range	-25°C to +55°C
Limit operation range	-40°C to +70°C
Limit range for storage and transport	-40°C to +85°C
Humidity	Up to 95% non-condensing
Power Consumption	
Power consumption in voltage circuit (active)	≤2 W

Power consumption in voltage circuit (apparent)	≤10 VA
Power consumption in current circuit	≤1 VA
Insulation Strength	
AC voltage test	4kV
Surge Withstand	6kV
Protection class	Class II
Electromagnetic Compatibility	
Electrostatic discharges	Contact 8kV, air 15kV
Fast transient burst	4kV
Immunity to Impulse voltage (IEC62052-11)	6 kV
Immunity to electromagnetic RF fields	10V/m at reference current, 30V/m without current
Protection Degree	IP54
Breaker	Double channel relay
Lifetime	Bi-stable relay 10000 cycles at I_{max} PF=1 and PF=0.5L
Maximum switching Voltage	250VAC
Maximum switching current	90A
Maximum switching power	22500VA
Lifetime	≥ 15 years

■ Main Functionalities

➤ Measurement

- Instantaneous Vrms, Irma, Frequency.
- Export/import active energy, apparent Power.
- Active energy demand registers.

➤ RTC

- Clock accuracy (daily deviation): $\leq 0.5s$
- Gregorian calendar
- Automatic leap year switch

➤ Battery backup

- Supper capacitor as backup power for RTC, Lcd display and anti-tamper detection under power outage state.

➤ Load control

- Relay operation test support
- Over current control support

➤ Billing data record

- One daily profiles record, up to 12 days
- Month billing record, up to 12 months

➤ Event record

- Tamper detect (Meter cover open, terminal cover open, current reverse, magnetic detect etc.)
- Failure detect (Memory error, relay error, measurement error,etc.)
- Power quality event (Under voltage / Over voltage / Current imbalance, Power failure, etc.)

➤ Relay Control

- Relay automatic disconnect after power outage
- Tamper disconnect(open meter cover, open terminal cover include power off tamper detection)
- Over active power limitation

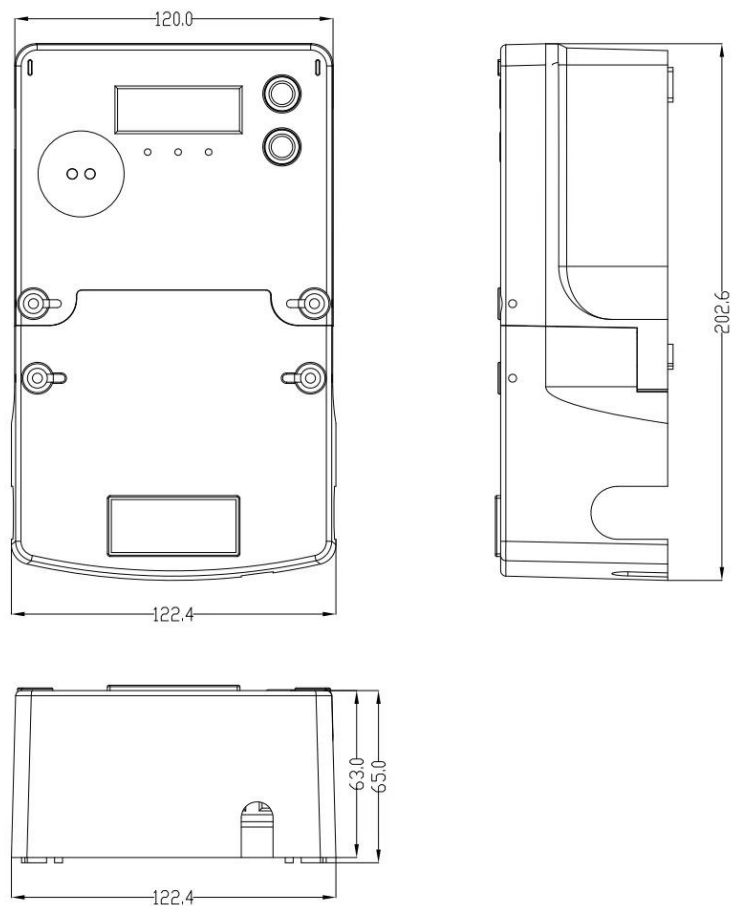
➤ Optical port

- Comply with IEC62056-21 standard.
- Support data burst reading mode.

➤ Security

- Password protect parameter configuration.

➤ Meter Installation Dimensions



➤ Connection

