

Three Phase Prepaid Electricity Meter

HXE330 is a new generation of three phase smart prepaid sub-meters with migrating STS/CTS with AMI functions. It provides local and remote credit charging.

The meter is supported by Hexing's vending system software.



Features

- Optional ultrasonic structure with high security and protection degree.
- STS/CTS standard protocol ensures an open and secure operating system
- Optical communication, open protocol: DLMS/COSEM (E mode)
- Internal switch relay for load demand control by configuration or remote communication
- Pre and post-payment mode switchable for user's convenience
- A plug-and-play communication module (GPRS/PLC/RF)
- Built-in RS485 communication optional keypad on measurement unit



Functionalities

Measurement

- Unidirectional measurement
- Record active energy in tariffs
- Instantaneous value measurement
- 12-month billing data and other frozen data for inquiry
- Prepayment is made via a numeric token with extended ways of recharging
- 6-month billing data (active energy) displayable

LCD Display

- Balance display configurable
- Large digit LCD display, easy for reading
- Scrolling display configurable for instant information enquiry
- Display readable without main power (RWP)

RTC

- Clock accuracy (daily deviation): $\leq 0.5s$ (23°C), 62054-21
- Daylight saving time configurable

Event Record

- Fraud protection function
- The relay will be disconnected for fraud protection once it detects the cover is open and terminal cover open events
- Multiple event detections and records with categories of operation, power grid and tampering
- RS485 Communication with interface in accordance to DLMS standard
- Emergency credit
- User-friendly mode for energy supply for low credit during weekends or holidays (optional)

Functionalities

Tampering Proof

- Module Cover open detection and record
- Meter terminal detection and record
- Bypass detection
- Large magnetic event(optional)

Demand

- Demand Interval configurable
- Block or slide mode configurable
- Forward and reverse active MD with time stamp

Tariff

- TOU
- Step configurable

Load profile

- Channel quantity customized before leaving the factory; up to 8 channels
- Data for load profile record configuration

Technical Specifications

Accuracy	Active class 1 Reactive class 2(optional)
Voltage Reference voltage Operating voltage range	3×230/400V 70%-120% Un
Basic current Maximum current Starting current	5A 80A/100A <0.4%Ib
Frequency	50Hz
Temperature Operation range Limit range for storage and transport	-25°C to +55°C -40°C to +75°C
Humidity	Up to 95%
Power consumption in voltage circuit (active) Power consumption in voltage circuit (apparent) Power consumption in current circuit	≤2W ≤10 VA ≤1 VA
Insulation Strength AC voltage test Impulse voltage test	4kV during 1 min 1.2/50μs mains connections 6kV
Connection Terminals	Ø8.7 mm
Housing Protection degree Meter cover Meter base Terminal cover	IP54 Opaque PC+ fiber glass with a transparent window Opaque PC+ fiber glass Opaque PC+ fiber glass

Technical Specifications

Display Digit size Number of digits	10mm x 6mm 8
Communication Interface Optical communication RS485 communication A plug-and-play communication module	DLMS/COSEM DLMS/COSEM DLMS/COSEM
Dimensions	257mm/277mm×174mm×90mm (Long terminal cover)

