



HXE330

**Three Phase
Directly Connected
Prepayment Meter**

Focus on creating value for clients



HXE330 is a new generation of three phase directly connected prepayment meter. It is designed according to international Standard Transfer Specification and supported by Hexing or third party vending system. With PLC/RF communication, it can be used for energy consumption monitoring and credit charging.

■ Highlights

- 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
- Prepayment and post-payment mode switchable.
- A plug-and-play module (PLC/RF) with CIU communication
- Built-in RS485 communication

■ Main Functionalities

➤ Measurement

- Unidirectional Measurement
- Record active energy.
- 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

➤ LCD Display

- Balance display configurable
- Large digit LCD display, easy for reading
- LCD backlights to increase readability in low light conditions(optional)
- Scrolling display configurable for instant information enquiry
- Display readable without main power (RWP)
- LCD backlights to increase readability in low light conditions

➤ 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 detects the cover 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

- **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/apparent MD
- **Load profile**
 - Channel quantity customized before leaving the factory; up to 8 channels
 - Data for load profile record configuration

■ Specifications

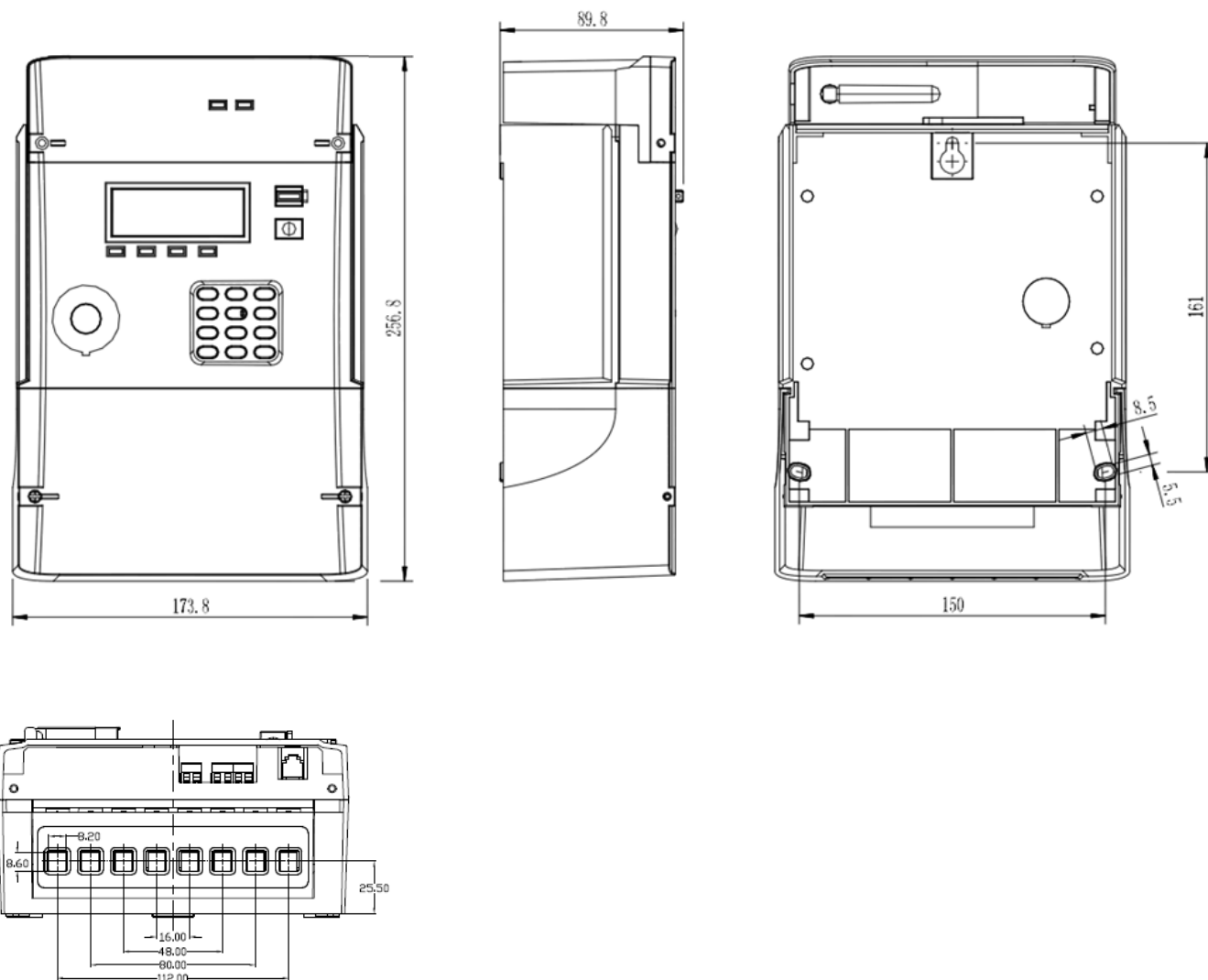
| Description | Value |
|--|--|
| Accuracy | Active class 1 Reactive class 2(optional) |
| Voltage Reference voltage Operating voltage range | 3×230/400V 130V-240V(phase to neutral) |
| Current Basic current Maximum current Starting current | 5A 60A-100A <0.4%I _b |
| Frequency | 50Hz or 60Hz |
| Temperature Operation range Limit range for storage and transport | -25℃ to +55℃ -40℃ to +75℃ |
| Humidity | Up to 95% |
| Power Consumption 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 1min 1.2/50μs mains connections 6kV |
| EMC Electrostatic discharges(Contact discharges) Electrostatic discharges(Air discharges) Surge immunity test Fast transient burst test Electromagnetic RF fields (80MHz to 2000MHz) | 8kV 15kV 4kV 4kV 10V/m(with current), 30V/m(without current) |
| Connection Terminals | ∅ 8mm |
| Housing Protection degree Meter cove Meter base Terminal cover | IP54 Opaque PC+ fiber glass with a transparent window Opaque PC+ fiber glass Opaque PC+ fiber glass |

| | |
|--------------------------------------|---|
| Display | |
| Digit size | 10mm x 6mm |
| Number of digits | 8 |
| Communication Interface | |
| Optical communication | DLMS/COSEM |
| RS485 communication | DLMS/COSEM |
| A plug-and-play communication module | DLMS/COSEM |
| Weight | |
| Net weight | Approx.1.73kg(+PLC communication module) Approx.1.77kg(+GPRS communication module) |
| Dimension | |
| | 257mm×174mm× 90mm (Long terminal cover) |

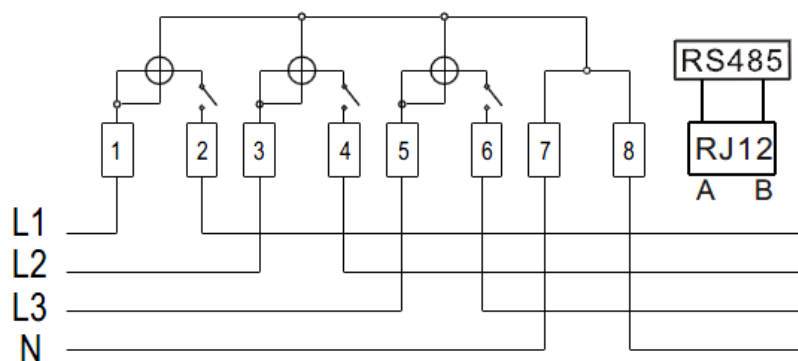
■ Standard

| | |
|--------------------|---|
| IEC62052-11 | Electricity metering equipment (a.c.) General requirements, tests and test conditions – Part 11: Metering equipment |
| IEC62053-21 | Electricity metering equipment (a.c.) Particular requirements –Part 21:Static meters for active energy(classes 1 and 2) |
| IEC62053-23 | Electricity metering equipment (a.c.) Particular requirements –Part 23:Static meters for reactive energy(classes 2 and 3) |
| IEC62054-21 | Electricity metering (AC) - Tariff and load control - Part 21: Particular requirements for time switches |
| IEC62056-46 | Electricity metering – Data exchange for meter reading, tariff and load control – Part 46: Data link layer using HDLC protocol |
| IEC62055-31 | Electricity metering –Payment systems–Part 31: Particular requirements –Static payment meters for active energy(classes 1 and 2) |
| IEC62055-41 | Electricity metering — Payment systems-Part 41: Standard transfer specification (STS) —Application layer protocol for one-way token carrier systems |
| IEC62056-21 | Electricity metering - Data exchange for meter reading, tariff and load control - Part 21:Direct local data exchange |
| IEC62056-46 | Electricity metering – Data exchange for meter reading, tariff and load control – Part 46: Data link layer using HDLC protocol |
| IEC62056-47 | Electricity metering – Data exchange for meter reading, tariff and load control – Part 47:COSEM transport layer for IP networks |
| IEC62056-53 | Electricity metering – Data exchange for meter reading, tariff and load control – Part 53:COSEM Application layer |
| IEC62056-61 | Electricity metering – Data exchange for meter reading, tariff and load control – Part 61:OBIS Object identification system |
| IEC62056-62 | Electricity metering – Data exchange for meter reading, tariff and load control – Part 62:Interface classes |
| EN50470-1 | Electricity metering equipment (a.c.) —Part 1: General requirements, tests and test conditions — Metering equipment(class indexes A, B and C) |
| EN50470-3 | Electricity metering equipment (a.c.) —Part 3: Particular requirements —Static meters for active energy (class indexes A, B and C) |

■ Dimensions



■ Connection Diagram



COMPANY HEADQUARTERS

Add: 1418-5 Moganshan Road,
Shangcheng Industrial Zone, 310011,
Hangzhou City, China

Tel: 86 571 28029898

Fax: 86 571 28029258

To realize a sustainable future, start here

www.hxgroup.cn