HEXING

HXE330

Three Phase
Smart Keypad
Prepayment Meter

Focus on creating value for clients

HXE330 is a new generation of three phase smart keypad prepayment meter which migrating STS/CTS with AMI functions. It provides local and remote credit charging. The meter is supported by Hexing's sophisticated vending system software.

Highlights

- 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
- Prepayment and post-payment mode switchable for users' convenience
- A plug-and-play communication module (GPRS/PLC/RF)
- Built-in RS485 communication

Main 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
- **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
  - 6-month billing data (active energy) displayable
- **RTC**
  - Clock accuracy (daily deviation): ⩽ 0.5s (23℃), 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

- User-friendly mode for energy supply for low credit during weekends or holidays (optional)

- **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

Specifications

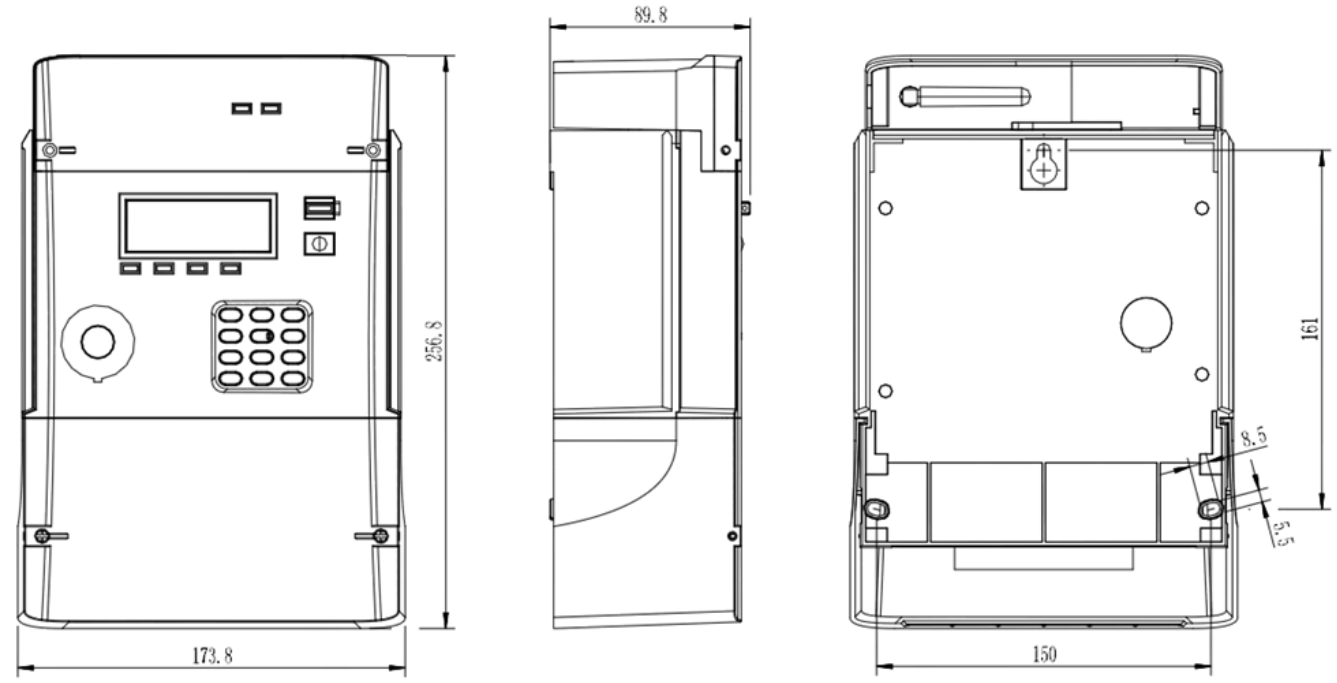
Description	Value
Accuracy	Active class 1 Reactive class 2(optional)
Voltage	
Reference voltage	3×230/400V
Operating voltage range	70%-130%Un
Current	
Basic current	5A
Maximum current	100A
Starting current	<0.4%Ib
Frequency	50Hz
Temperature	
Operation range	-25℃ to +55℃
Limit range for storage and transport	-40℃ to +75℃
Humidity	Up to 95%
Power Consumption	
Power consumption in voltage circuit (active)	≤2W
Power consumption in voltage circuit (apparent)	≤10 VA
Power consumption in current circuit	≤1 VA
Insulation Strength	
AC voltage test	4kV during 1min
Impulse voltage test	1.2/50μs mains connections 6kV
EMC	
Electrostatic discharges(Contact discharges)	8kV
Electrostatic discharges(Air discharges)	15kV
Surge immunity test	4kV
Fast transient burst test	4kV
Electromagnetic RF fields (80MHz to 2000MHz)	10V/m(with current), 30V/m(without current)
Connection Terminals	¢8mm
Housing	
Protection degree	IP54
Meter cove	Opaque PC+ fiber glass with a transparent window

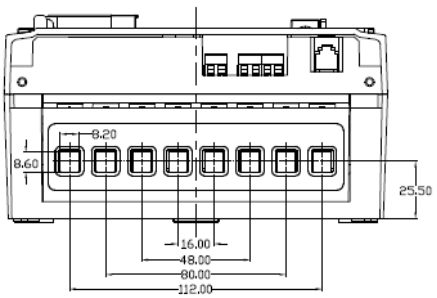
Meter base	Opaque PC+ fiber glass
Terminal cover	Opaque PC+ fiber glass
Display	
Digit size	10mm x 6mm
Number of digits	8
Communication Interface	
Optical communication	DLMS/COSEM
RS485 communication	DLMS/COSEM
A plug-and-play communication module	DLMS/COSEM
Weight	
Net weight	Approx.1.73kg(+PLC communication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

■ Standard

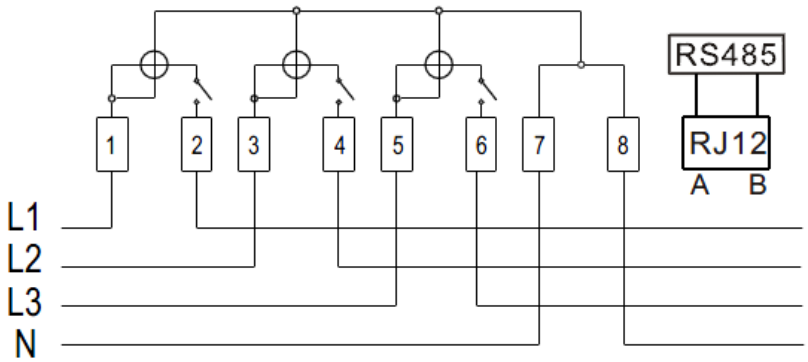
IEC62052-11	Electricity metering equipment (a.c.) General requirements, tests and test conditions – Part 11: Metering equipment
IEC62053-21	Electricity metering equipment (a.c.) Particular requirements –Part 21:Static meters for active energy(classes 1 and 2)
IEC62053-23	Electricity metering equipment (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
IEC62055-31	Electricity metering –Payment systems–Part 31: Particular requirements –Static payment meters for active energy(classes 1 and 2)
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



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