





HXE115-KP

Single Phase Conventional Prepayment Keypad Meter

Focus on creating value for clients



HXE115-KP is a new generation of single phase residential prepayment keypad meter, it complies with open standard (STS) and supported by Hexing/Itron/Landis+Gyr/Conlog...'s vending system.

Highlights

- STS standard protocol ensures an open and secure operating system
- Optical Communication, Open Protocol: DLMS/COSEM
- Prepayment and post-payment mode switchable for users' convenience
- Wide working voltage scope, the lowest working voltage could be 100V
- High productivity and Reliability

Main Functionalities

Measurement

- Unidirectional or Bi-directional 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
- LCD backlights to increase readability in low light conditions(optional)
- Scrolling display configurable for instant information enquiry
- Display readable without main power (RWP)
- 6-month billing data (active energy) displayable

RTC

Clock accuracy (daily deviation): ≤ 0.5s

(23℃)

- · Day light saving configurable
- 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
- MC171 Communication with interface in accordance to DLMS standard (optional)
- Emergency Credit for a certain sum of energy supply depending on User's credit level
- User-friendly mode for energy supply for low credit during weekends or holidays (optional)

Tampering Proof

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

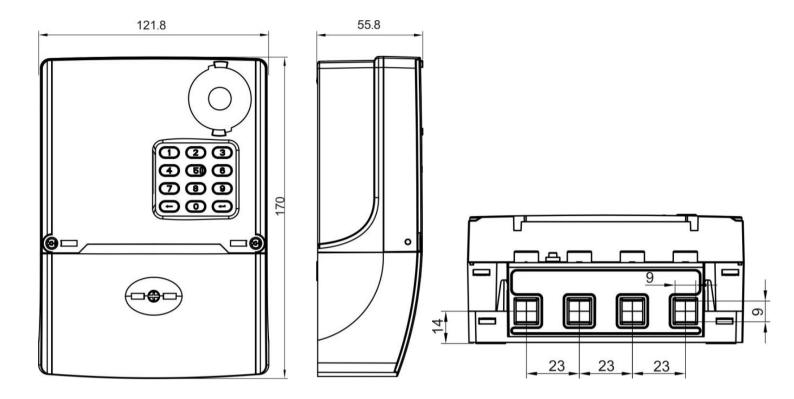
Specifications

Description	Value
Accuracy	Class 1 or 2 (IEC), Class A or B (MID)
Voltage	
Reference voltage	220-240V
Operating voltage range	70%-120%Un
Current	
Basic current	5A
Maximum current	80A
Starting current	≤0.4%lb
Frequency	50Hz or 60Hz
Temperature	
Operation range	-25℃ to +70℃
Limit range for storage and transport	-40°C to +85°C
Humidity	Up to 95%
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 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 cover	Transparent PC
Terminal cover	Opaque PC+ fiber glass
Display	
Digit size	8.0mm x 4.0mm
Number of digits	8
Communication Interface	
Optical port	DLMS/COMSE
Weight	
Net weight	Approx.0.51kg
Package	approx.0.04kg
Dimension	186mm×126mm×57mm

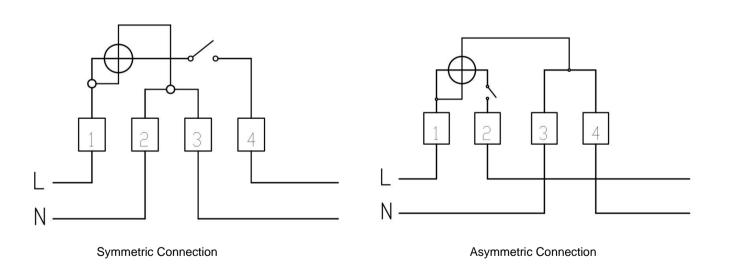
■ Standard

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)
IEC62055-41	Electricity metering - Payment systems - Part 41: Standard transfer specification (STS) - Application layer protocol for one-way token carrier systems
IEC62055-51	Electricity metering - Payment systems - Part 51: Standard transfer specification (STS) - Physical layer protocol for one-way numeric and magnetic card token carriers
IEC62056-21	Electricity metering – Data exchange for meter reading, tariff and load control – Part 21:Direct local data exchange
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)

Dimension



Connection Diagram



COMPANY HEADQUARTERS

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