



HEXING HXE312-KP

Three Phase
Keypad Prepayment Meter

Focus on creating value for clients



HXE312-KP is a three phase direct connection keypad prepayment meter with AMR/AMI enable. It complies with open standard (STS and DLMS) and can operate under standard vending system from third parties. The meter is supported by Hexing's powerful vending and management system software.

■ Highlights

- STS standard protocol ensures an open and secure operating system
- Optical Communication, Open Protocol: DLMS/COSEM Standard (E Mode)
- Internal switch relay for load demand control by configuration or remote communication
- Prepayment and post-payment mode switchable for users' convenience

■ Main Functionalities

➤ Measurement

- Unidirectional or Bi-directional Measurement
- Active energy, Active reverse energy Measurement
- Instantaneous value measurement

➤ Prepayment is made via a numeric token

➤ 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 the latest 6 months active energy consumption
- 12-month billing data and more frozen data for inquiry

- Display readable without main power (RWP)

➤ RS485 Communication with interface in accordance to DLMS standard (optional)

➤ Event Record

- Multiple event detections and records with categories of operation, power grid and tampering

➤ 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)

➤ Auxiliary Terminal for Energy Pulse Output(optional)

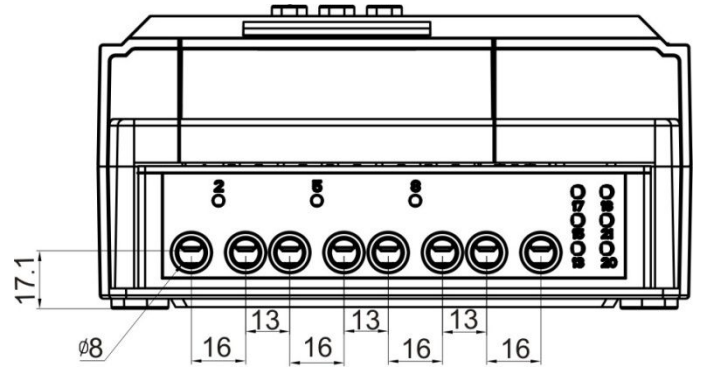
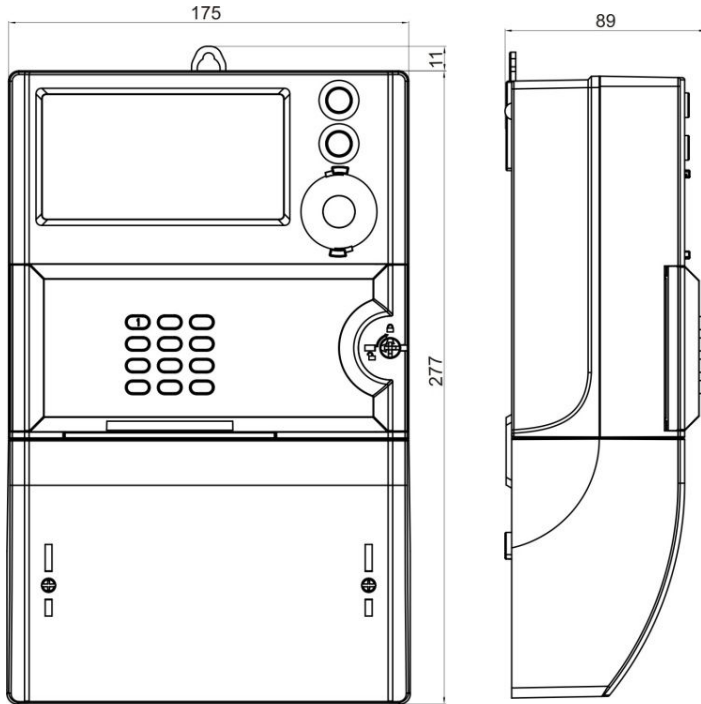
■ Specifications

Description	Value
Accuracy	Class 1 or 2 (IEC), Class A or B (MID)
Voltage	
Reference voltage	3×220/380V-3×240/415V
Operating voltage range	70%-120%Un
Current	
Basic current	5A,10A
Maximum current	40A, 60A, 80A, 100A
Starting current	< 0.4%Ib
Frequency	50Hz or 60Hz
Temperature	
Operation range	-25℃ to +70℃
Limit range for storage and transport	-40℃ to +85℃
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 cove	Opaque PC+ fiber glass with a transparent window
Meter base	Opaque PC+ fiber glass
Terminal cover	Opaque PC+ fiber glass
Display	
Digit size	4.5mm x 8.8mm
Number of digits	8
Communication Interface	
Optical communication	DLMS/COSEM
RS485	DLMS/COSEM
Weight	
Net weight	Approx.1.74kg
Package	Approx.0.06kg
Dimension	266mm×175mm×89mm

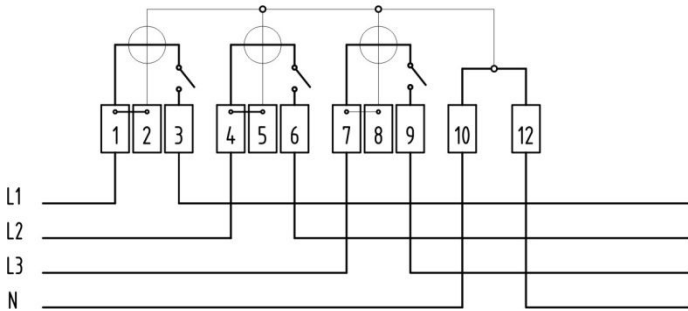
■ Standard

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
IEC62056-46	Electricity metering – Data exchange for meter reading, tariff and load control – Part 46: Data link layer using HDLC protocol
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)
IEC62056-21	Electricity metering – Data exchange for meter reading, tariff and load control – Part 21:Direct local data exchange

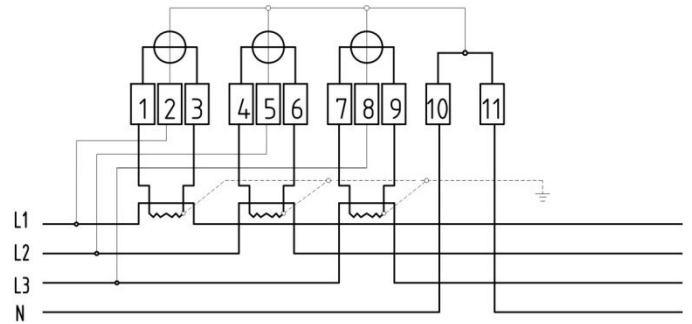
■ Dimensions



■ Connection Diagram



Direct Connection Type



Transformer Operated Type

COMPANY HEADQUARTERS

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

TeI: 86 571 28029898

Fax: 86 571 28029258

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