HEXING

HXE310-P

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Three Phase
Split Prepayment Meter

Focus on creating value for clients

HXE310-P

HXE310-P is a three phase direct connection meter used in a split prepayment metering system. It complies with STS standard and communicates with a CIU by Mbus or PLC for energy consumption monitoring and credit charging.

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 of last 6 months active energy consumption
  - 12-month billing data and more frozen data for inquiry
- Communication with CIU via PLC or MBUS, depending on the site
- 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

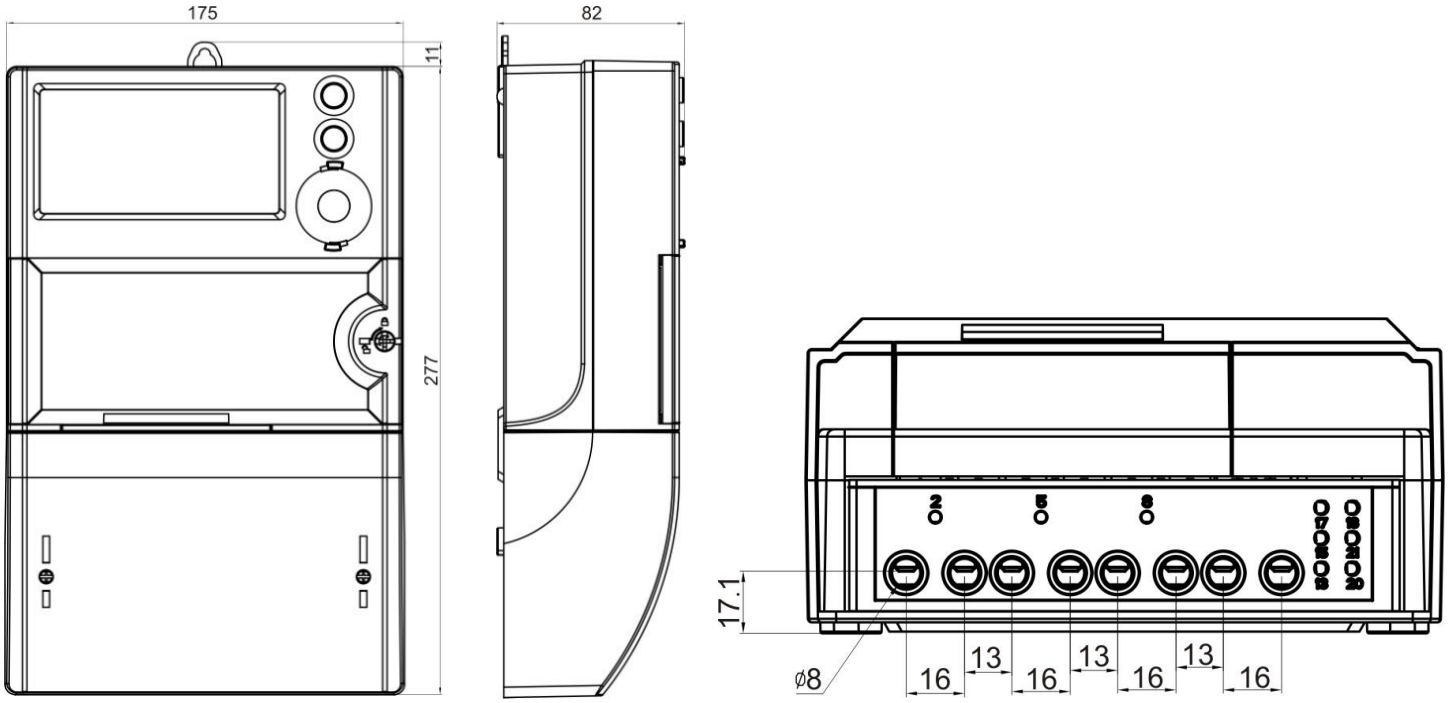
Description	Value
Accuracy	Class 1 or 2 (IEC), Class A or B (MID)
Voltage	
Reference voltage	3×220/380V-3×240/415V
Operating voltage range	70%-120%Un
Current	
Basic current	5A,10A
Maximum current	40A, 60A, 80A, 100A
Starting current	≤ 0.4%Ib
Frequency	50Hz or 60Hz
Temperature	
Operation range	-25℃ to +60℃
Limit range for storage and transport	-40℃ to +75℃
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 (with long terminal cover)
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
PLC/MBUS alternative	
Weight	
Net weight	Approx.1.61kg (Extended terminal cover)
	Approx.1.57kg(Short terminal cover)
Package	Approx.0.15 kg (Extended terminal cover)
	Approx.0.15kg (Short terminal cover)

Dimension	266mm×175mm×82mm (Extended terminal cover) 224mm×175mm×82mm (Short terminal cover)

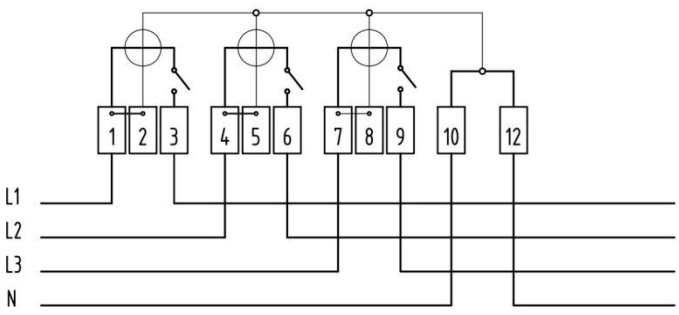
■ Standard

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)
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

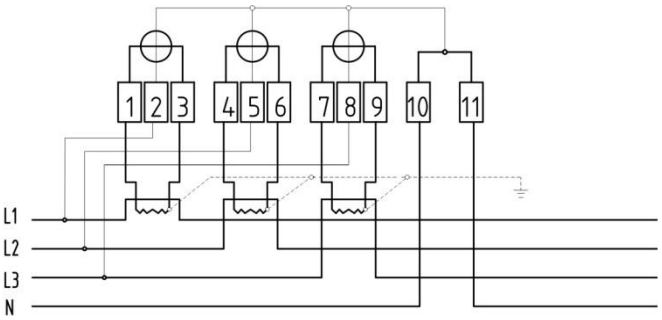
■ Dimensions



■ Connection Diagram



Symmetric Connection



Asymmetric Connection

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