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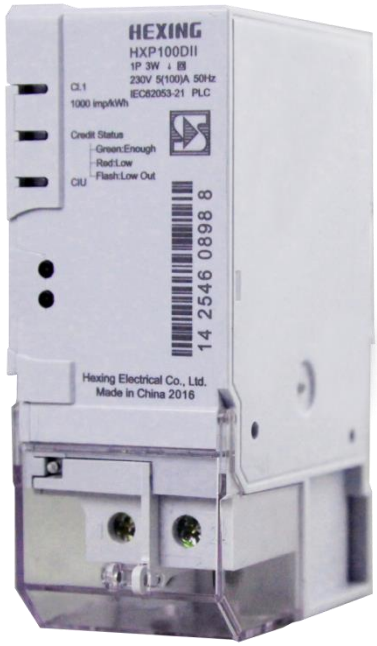


HXP100DII

Single Phase
DIN-Rail Split
Prepayment Meter

Focus on creating value for clients

HXP100DII is a single phase two or three wire residential DIN-rail split prepayment meter, it complies with open standard (STS) and supported by Hexing/Itron/Landis+Gyr/Conlog...'s vending system. With PLC or RF communication, it can be used for energy consumption monitoring and credit charging.

Highlights

- STS standard protocol ensures an open and secure operating system
- Optical Communication, Open Protocol: DLMS/COSEM
- Split type design, With high tamper-proof performance
- Prepayment and post-payment mode switchable for users' convenience
- Support AMI function by PLC or RFcommunication thru Data concentrator
- Double relay control, double-circuit measurement
- LCD display function(optional)

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
- **RTC**
  - Clock accuracy (daily deviation): ⩽ 0.5s (23℃)
  - Day light saving configurable
- Multiple event detections and records with categories of operation, power grid and tampering
- MC171 Communication with interface in accordance to DLMS standard
- 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**
  - Terminal Cover open detection and record
- **Demand**
  - Demand Interval configurable
  - Block or slide mode configurable
  - Forward and reverse MD with time stamp
- **Load profile**
  - Channel quantity customized before leaving

the factory; up to 8 channels

- Data for load profile record configuration

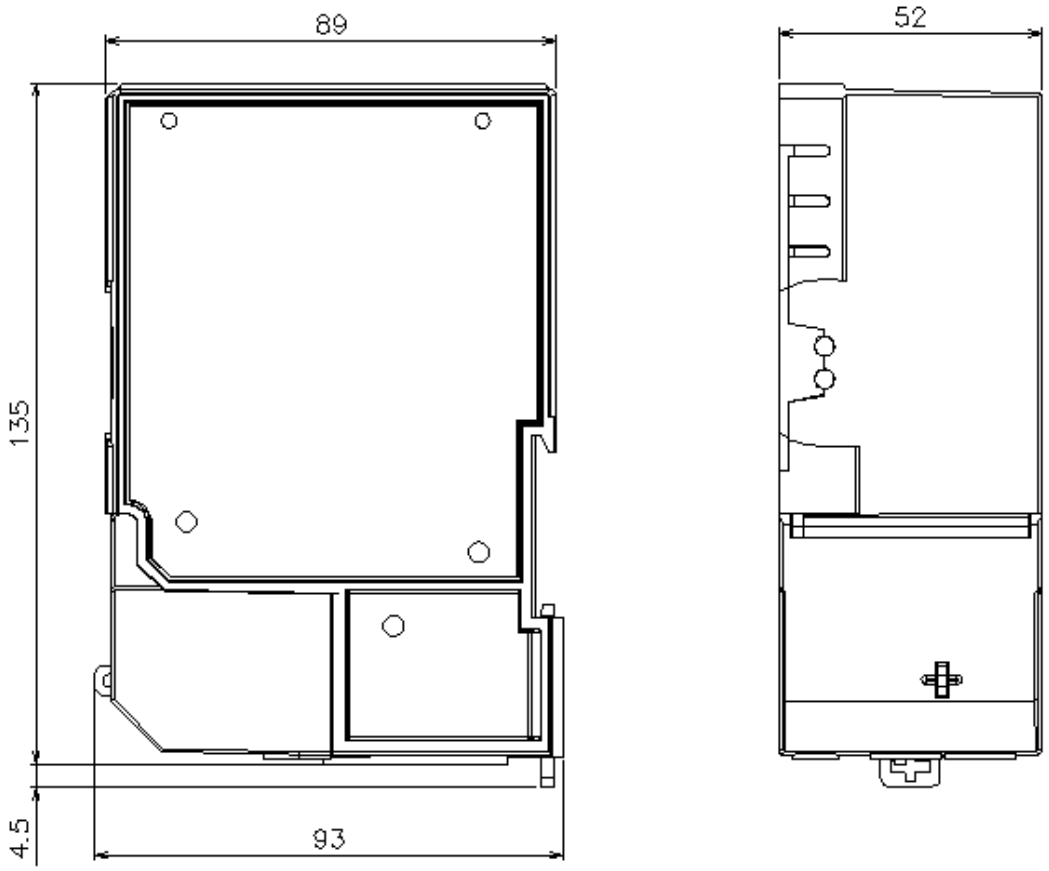
■ Specifications

Description	Value
Accuracy	Class 1
Voltage	
Reference voltage	230V
Operating voltage range	70%-130%Un , Auto adjustable
Current	
Basic current	5A,10A
Maximum current	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)
ConnectionTerminals	¢10mm
Housing	
Protection degree	IP54
Meter cove	Opaque PC+ fiber glass
Meter base	Opaque PC+ fiber glass
Communication Interface	
Optical communication	DLMS/COSEM
RS485	DLMS/COSEM
PLC/RF communication module	DLMS/COSEM
Weight	
Net weight	Approx.0.73kg
Package	Approx.0.08kg
Dimension	135mm×52mm×89mm

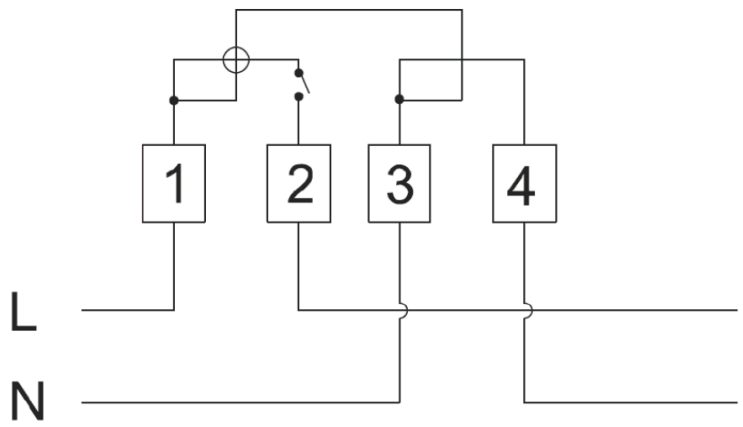
Standard

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



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