

HXP130

Single Phase
Smart Keypad
Prepayment Meter



HXE130 | Single Phase | Smart Keypad | Prepayment Meter

HXE130 is a new generation of single-phase smart keypad prepayment post payment meter which migrating STS/CTS with AMI functions. It provides local and remote credit charging. The meter is supported by Hexing's AMI and vending system software. The meter can be designed by integrated type or split type.



MAIN FUNCTIONALITIES

Measurement

- 1 P2W connection
- Import & Export & Total & Net kWh
- Import & Export kVARh (optional)
- Four quadrant kVARh (optional)
- Total Per tariff

Instantaneous Values

- Power, Voltage, Current
- Power Factor, Frequency

Power Quality Monitoring

- Under & Over voltage
- Power down

Events & Alarms

- Load and power grid events detection
- Customizable event list
- At least 2 00 event records
- Internal self check
- Alarms indicator (LED/LCD)
- Event date and time

LCD

- Display area size 66mm × 23mm
- Display digital size 10mm×6mm
- Backlight (optional)
- Configurable automatic & manual display list
- Test mode
- OBIS codes (according to IEC62056 64)

MAIN FUNCTIONALITIES

RTC (Real Time Clock)

- Quartz crystal time resource
- Gregorian calendar
- DST (Daylight Saving Time, optional)
- Lithium battery
(exchangeable/inner, 10 years support)

Billing Data

- At least 1 2 monthly billing periods
- At least 62 daily billing periods
- Automatic reset/ Manual reset

Local and Remote Access

- PC software
- HHU
- MDC & Vending system
- CIU (optional)

Load Profile (Optional)

- Up to 16 Megabytes of non-volatile memory
- Over 100 days storage (8 channel, 15 minutes)
- Up to 8 channels
- 8 captured objects per channel
- Capture period (15, 30, 60, ...1440 min)
- Energy, power, voltage, current, frequency,
- Maximum /minimum/average value

Tariffs (Optional)

- Up to 4 tariffs
- Up to 8 day tables
- Up to 12 week tables
- Up to 12 season tables
- Up to 100 holiday & special days tables

Prepaid

- STS/CTS standard(optional)
- Emergency Credit
- Friendly Mode(optional)
- Local Remote charge
- Prepaid Post paid

Keypad

- Optional keypad integrated into meter or split type.

Load Control

- 80A/ 100A (Max) relay integrated, UC2
- Load control according to power threshold (programmable)
- Local &remote load control
- Relay status indicator

Communication

- Optical port DLMS IEC62056 21E/ HDLC
- HAN port:RS485(RJ12)/M bus/MC171(optional)
- Modular plug play 2G/3G/PLC /RF communication

Anti-Tamper

- Mechanical seals (terminal, body, module)
- Physical detection (terminal, body, module)
- Current reverse
- Strong magnetic field detection (optional)
- Bypass detection (optional)
- Optical port sealable (optional)

Security

- Different data access levels
- Data access management for all ports
- Metrology data protection

Demand Monitoring (optional)

- Block/Slide mode
- Programmable integration period (typically 5, 10, 15, 30 or 60 minutes)
- Import & Export kW, kVARh, KVA(optional)
- Historical consumption value
- Pre-set time (automatic) /Manual reset (button/ communication)

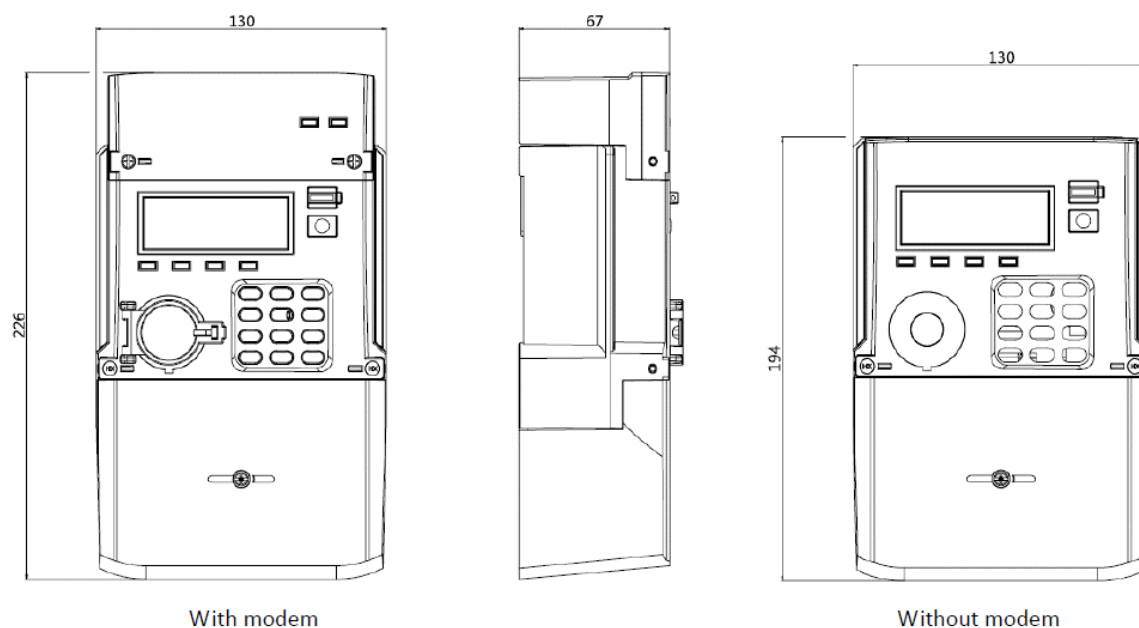
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Specifications

APPLICATION		Direct connection
ACCURACY	Active	Class 1 (IEC)
	Reactive (Optional)	Class 2 (IEC)
NOMINAL VOLTAGE	1 phase 2 wire	120V...240V (- 20%...20%)
CURRENT RANGE	Ib/ Iref	5A, 10A
	I _{max}	80A, 100 A
STARTING CURRENT	According to IEC	0.4%I _b
FREQUENCY		50 / 60Hz, +/-5%
POWER CONSUMPTION	Phase voltage	230V
	Voltage circuit	< 2W, < 10 VA
	Current circuit	<0 .1VA
TEMPERATURE RANGE	Operation	-25 ° C to +55° C
	Storage	-40 ° C to +70 ° C
HUMIDITY RANGE		Up to 95%
PROTECTION DEGREE		IP 54(Indoor)
EMC	Electrostatic discharge	Contact discharge 8KV Air discharge 15KV
	Fast transient burst	4KV
	Surge immunity	6KV
	Electromagnetic RF Fields	Frequency range 80kHz to 2000MHz With current 10V / m Without current 30V / m
	Conducted disturbance	Frequency range 150kHz to 80MHz Voltage level 10V
	Radio interference (peak value)	30MHz~1GHz < 30dB
INSULATING STRENGTH	Impulse voltage	6KV 1.2 / 50 μs
	AC voltage	4KV
RTC	Clock Accuracy	< 0.5s / day
STANDARDS	IEC standard	IEC6205211 IEC62053 21 IEC6205323 IEC62055 41 IEC6205551 IEC62056 46 IEC6205647 IEC62056 53 IEC6205661 IEC62056 62
COMMUNICATION	Built in	Optical / RS485/ MC171/M Bus
	Modules (optional)	2G / 3G / PLC/ RF Mesh
OUTPUT / INPUT	Energy impulse LED	1 for active energy
		1 for reactive energy
	Alarm / Status LED	1 for credit status indicator
		1 for alarm indicator
OUTPUT/INPUT	1 x Electronic output (optional)	acc. IEC 62053-31
DATA STORAGE	Load profile (optional)	8 Channels
	Billing data	12 Billing periods
INSTALLATION	Type	BS7856
BATTERY		Exchangeable
DISCONNECTOR	Maximum switch voltage	250V
	Maximum switch current	80A/ 100A
	Short circuit <= 10ms	2400A/ 3000A (according to IEC62053 21)
HOUSING MATERIAL		Polycarbonate + GF
CONNECTION	Terminal Size	8.7 mm x 8.2 mm
WEIGHT		About.0.81 kg(without module)
		About.0.87 kg(with module)
DIMENSION	(H x W x D)	(164 mm 254mm)x 130mmx 67mm

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Typical Dimensions



Terminal drawing



Connection Diagram

