HXE115-KP

HXE115–KP is a single phase prepayment residential meter with keypad to provide local charging and reading. It complies with STS standard and supported by Hexing powerful vending system.

Single Phase Prepayment Residential Meter Class 1

HXE115-KP

HXE115–KP is a high qulity, low cost single phase prepaid / post–paid meter according to STS and BS standard and developed metering requirement.

Utilizing integrated keypad and LCD, it meets vital daily Utility and customer's needs.

MAIN FUNCTIONALITIES

Measurement

o 1 / 2 elements
o Import & Export KWh
o Total & Per tariff (optional)
o Cumulative & Delta energy
o Absolute

Demand Monitoring (optional)

o Block / Slide mode
o Programmable integration period (typically 5, 10, 15, 30 or 60 minutes)
o Import & Export KW
o Maximum value
o Pre–set time (automatic) reset

Instantaneous Values

o Power, Voltage,Current
o Power Factor, Frequency

Power Quality Monitoring

o Under & Over voltage
o Power down
o Current reverse

Billing Data

o 12 Billing periods
o Automatic reset

Clock

o Quartz crystal time resource
o Gregorian calendar
o DST (Daylight Saving Time)
o Local synchronization
o RWP (Read Without Power)
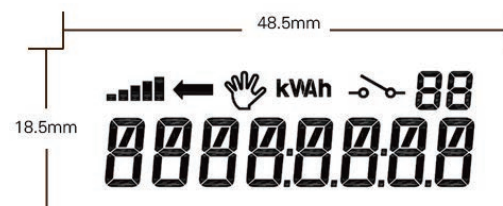o Lithium Battery (10 years support)

Communication

o 2 independent communication ports
o Simultaneous individual operation
o Optical port: IEC62056–21E
o MC171port
o RS485: DLMS_HDLC (optional)

Events & Alarms

o Load and power grid events detection
o Customizable event list
o 200 event records
o Internal self–check
o Alarms indicator (LED / LCD)
o Event date and time
o Buzzer alarm

LCD

o Display digit size: 8mm x 4mm
o Backlight (optional)
o Configurable automatic & manual display list
o Test mode

Load Control

o One 80A (Imax) relay integrated (≥10000 times under nominal current)
o Load control according to power threshold
o Max power threshold programmable
o Relay status indicator
o Relay malfunction indicator

Anti–Tamper

o 3 sealing positions (terminal, body)
o Main & Terminal cover removal detection
o Reverse current
o Strong magnetic field detection (optional)
o By–pass detection (optional)

Installation

o Wall–mounted
o Suitable meter box by Hexing
o 3 individual fixing screws (1 top, 2 bottom)

Prepaid

o STS standard
o Emergency Credit
o Friendly mode
o Local charge
o Prepaid / Post–paid

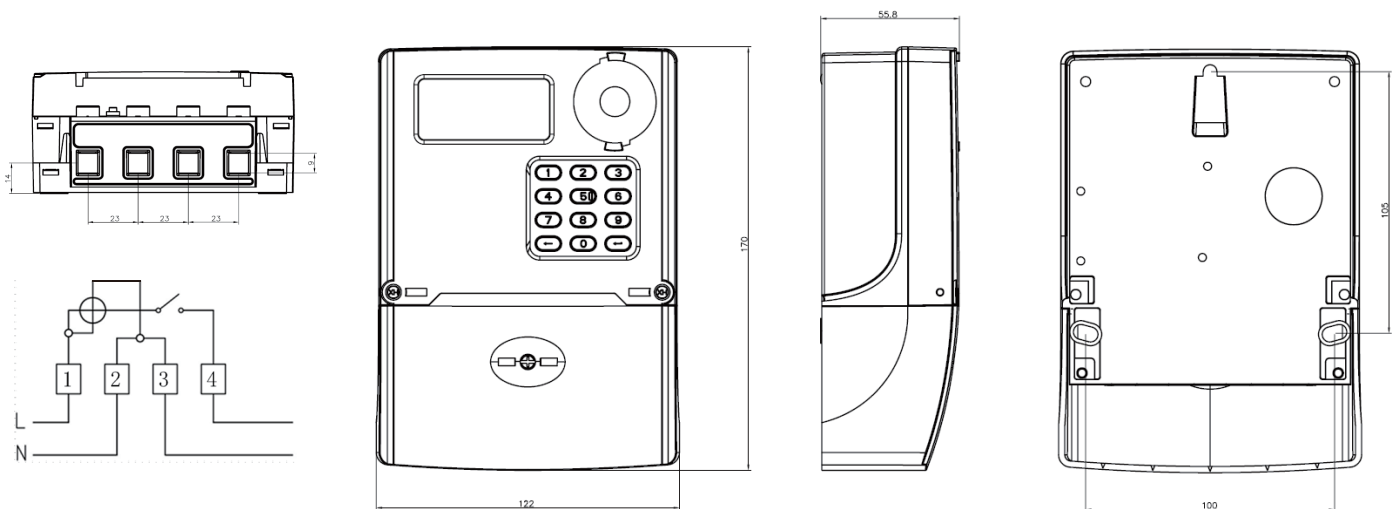## Local and Remote Access

o PC software
o HHU

Security

o 3 data access levels (Lowest, LLS and HLS)
o Data access management for all port
o Metrology data protection

SPECIFICATIONS

APPLICATION		Direct connection
ACCURACY	Active:	Class 1 (IEC) / Class B (MID)
NOMINAL VOLTAGE	1 phase 2 wire:	220V, 230V, 240V
CURRENT RANGE	Ib / Iref Imax	5A,10A 60A, 80A
STARTING CURRENT	According to IEC	0.4%Ib
FREQURNCY		50 / 60Hz
POWER CONSUMPTION	Phase voltage Voltage circuit : Current circuit :	230V < 1.5W, < 10VA < 0.1VA
TEMPERATURE RANGE	Operation: Storage:	−25°C to +55°C −40°C to +70°C
HUMIDITY RANGE		Up to 95%
PROTECTION DEGREE		IP54
EMC	Electrostatic discharge Fast transient burst Surge immunity Electromagnetic RF fields Conducted disturbance Radio interference (peak value)	Contact discharge 8KV Air discharge 15KV 4KV 6KV Frequency range 80kHz to 2000MHz With current 10V / m Without current 30V / m Frequency range 150kHz to 80MHz Voltage level 10V 30MHz~1GHz < 30dB
INSULATING STRENGTH	Impulse voltage AC voltage	6KV 1.2 / 50 μ s 4KV
RTC	Clock Accuracy	< 0.5s / day
STANDARDS	IEC standard MID standard	IEC 62052–11 IEC 62053–21 IEC62053–23 IEC62055–41 IEC62055–51 IEC62056–46 IEC62056–47 IEC62056–53 IEC62056–61 IEC62056–62 EN54070–1 EN54070–3

COMMUNICATION	Built−in	Optical, MC171, RS485 (optional)
	Modules	N / A
INDICATOR	Energy impulse LED	1 for active energy
	Alarm / Credit status LED	1 for credit status indicator
		1 for alarm indicator
OUTPUT/INPUT		N / A
DATA STORAGE	Load profile	N / A
	Billing data	12 Billing periods
TERMINALS	Type	BS7856
	Material	Copper−Brass
BATTERY		Unchangeable
AUXILIARY RELAY		N / A
Disconnector	Maximum switch voltage	250V
	Maximum switch current	80A
	Short circuit≤10ms	2400A (according to IEC62053−21)
	Mechanical life	≥ 300000 OPS
	Electric life	≥ 10000 OPS
HOUSING MATERIAL		Polycarbonate+GF
CONNECTION	Terminal	∅ 8mm
WEIGHT		About.0.51 kg
DIMENSION		122mm x 170mm x 56mm (W x H x D)

DIMENSION

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