





Hexing Prepaid Keypad Meter

Equipped with proven keypad technology, Hexing Prepaid Keypad Meter contains all critical metering, token decryption, relay disconnection and reverse energy detection functionality. Together with the modern look and feel, it can be used in a wide range of application for all consumer types.



MCU	UIU
<p>Operating independently of the UIU, it contains all critical metering, token decryption and load control functionality.</p> <p>It is outside the consumer's home to facilitate easy inspection by the utility at any time and to reduce the opportunity of fraud by tampering. The MCU can be installed in a secure, locked enclosure to prevent unauthentic access. The MCU is with DIN rail installation, which is easier to be installed</p>	<p>It is installed in the consumer's home and is connected to the MCU thru M-BUS communication.</p> <p>It is a compact unit with a user-friendly keypad and LCD display management function.</p> <p>Standards</p> <ul style="list-style-type: none">  IEC62053-21  IEC62053-31 <p>Protocol</p> <ul style="list-style-type: none">  IEC62056-21  IEC62055-41

Easy and Secure Data Transfer

Data transfer from a Point of Sale is made via a numeric token, which is generated using the Standard Transfer Specification (STS) encryption techniques and protocol.

The token is entered into the meter via the keypad.

The transaction includes:

- Transfer of credit to meter
- Transfer of management Token to meter

Low-credit Alarming

Thru software, 3 levels of low credit thresholds can be defined and the meter can give visible (LED indicator) or audible (buzzer) alarming when the credit threshold is reached.

Emergency Credit

Emergency credit is available to the great benefit of customer.

Meter can be easily re-connected to mains supply by keying in specified code via keypad.

Power Control Management

Built-in Relay will be disconnected automatically when

- The credit is exhausted.
- Overload occurs (the threshold is configurable)
- The meter is disconnected under STS test mode
- Power failure

Communication

As a standard feature, the meter offers an IEC 62056-21 compliant optical communications port. This allows the utility to access a variety of information stored inside the meter and to upload it to a hand-held unit.

The communication between UIU and MCU is thru M-BUS. The maximum communication distance between MCU and UIU is 150 meters.

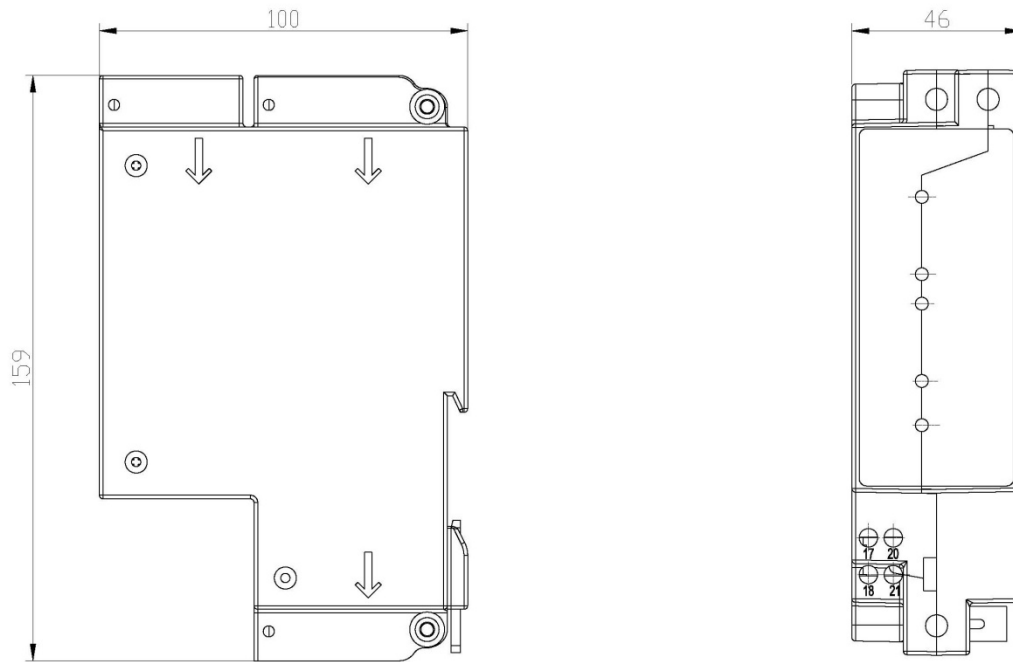
Credit/Prepayment mode

Easy switch between Credit mode and Prepayment mode, it can be operated though token generated by system, another option is using PC software to switch the metering mode.

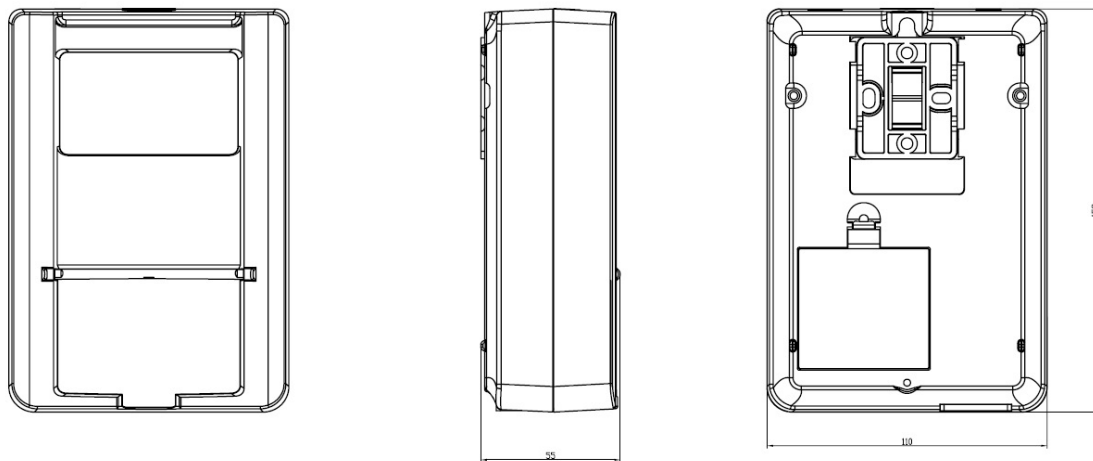
Single phase split keypad meter: TYPE HXE12

Technical specification	
Meter description	Single phase split keypad prepayment meter
Standards Comply	IEC62053-21,IEC62053-31
Rated voltage	230V
Rated Frequency	50Hz
Accuracy class	CL1.0
Basic current (Ib)	5A
Maximum current (Imax)	80A
Starting current	0.4%Ib
Power consumption per phase Voltage Circuit	< 2W/10VA per phase
User interface	LCD display on UIU
Low credit alarming	LED, buzzer
Rate indicator LED	1000 pulses/kWh
Communication	Optical Port with IEC62056-21 M-BUS
Operating temperature range	-25°C to + 55°C
Storage temperature	-40°C to + 80°C
Humidity operating range	95% RH
Degree of protection	IP54
Weight	0.55kg (MCU) 0.35kg (UIU)
Over voltage	48 hours under 420V
Meter case material	UV stable/Reinforced polycarbonate
Meter terminal material	UV stable/Radiation resistant polycarbonate
Contact	Internal latch relay
Data transfer	STS compliant, Numeric token
Data retention	>15 years
Dimensions (L x W x H)	46mm×100mm×159mm for MCU 158mm×110mm×55mm for UIU

Dimension:



MCU



UIU