

NOE18-B-R Prepaid LORA-RF Single Phase Keypad Electricity Meter

	Ingress protection IP54 waterproof
	Up to 8 years battery life
	Remote connection/disconnection
	STS Standard
	Real-time clock
	Utilities can set TOU price into meter on request
	Anti-Tamper Magnetic field protection
	LORA-RF communication (optional)
	Pay by mobile payment M-PESA, Alipay, MTN, Airtel, etc.

Compliance with Standard

- * ISO 9001 ; ISO 14001
- * STS Certificated

Application:

Counting the electricity consumption of users over a period of time.



NOE18-B-R is an STS Standard compliant, keypad type, automatically connection or disconnection prepaid electricity meter. It can be top up with Novizexpay vending software with 20 digits token and communicate with AMI system via LORA - RF module.

The integrated keypad of single phase electricity meter is offered to enter recharge TOKEN and check the data like Residual Credit, Total Purchased Credit and Total Consumption by inputting the short code.

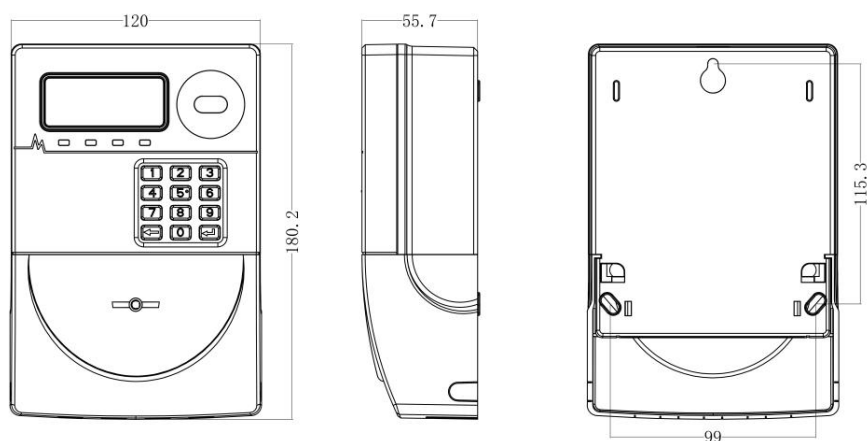
Electrical Parameters

Nominal Voltage	230V
Working Voltage Range	70%~120%Un
Nominal Frequency	50-60Hz (50±5%/2%)
Basic Current (Ib)	5A
Maximum Current (Imax)	80A
Starting Current (Ist)	20mA
Active Energy Constant	1000imp/kWh
Measurement Accuracy	Class 1.0
Power Consumption in Voltage Circuit	<2W <8VA
Power Consumption in Current Circuit	<1VA
Operation Temperature Range	-25°C-70°C
Storage Temperature Range	-40°C-85°C

Electric Magnetic Compatibility

AC Insulation Strength		4kV at 50Hz during 1min
Impulse voltage 1.2/50 us mains connections		8kV
Electrostatic Discharges	Contact discharge	8kV
	Air discharge	16kV
Electromagnetic RF Field	27MHz-500MHz	10V/m
	100KHz-1GHz	30V/m
Fast transient burst test		4kV
Protection		Class II

Meter Dimension



Basic Features

- * STS standard and protocol.
- * Meter recharged by inputting 20 digits TOKEN.
- * Ingress protection IP54 waterproof.
- * Anti-Tamper magnetic field protection.
- * Real-time clock and low credit alarm.
- * Event log and data can be stored for 10 years.
- * Pay by mobile payment M-PESA, Alipay, MTN, Airtel, etc.
- * The meter could communicate with AMI system through data concentrator.

Novizexpay Vending Software:

- * Web-based version.
- * Standalone version (Unsupported for dual source).
- * Server with software.

Anti-Tamper Functions:

Meter relay will be cut off automatically after detection of magnetic field and open cover event.

Liquid Crystal Display:



Overdraft Collection:

Electricity Overdraft can be collected day by day or month by month.

TOU Tariff:

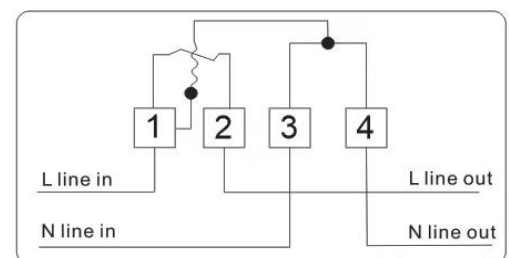
Meters can be set Step Tariff by inputting corresponding TOKEN. Utilities can set step price on request.

Information Inquiry:

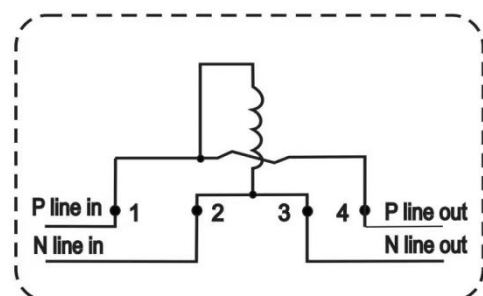
Consumer could check the data like Credit Remain, Total Purchased and Total Credit by input the short code.

Wiring Diagrams:

1. Sequential Wiring



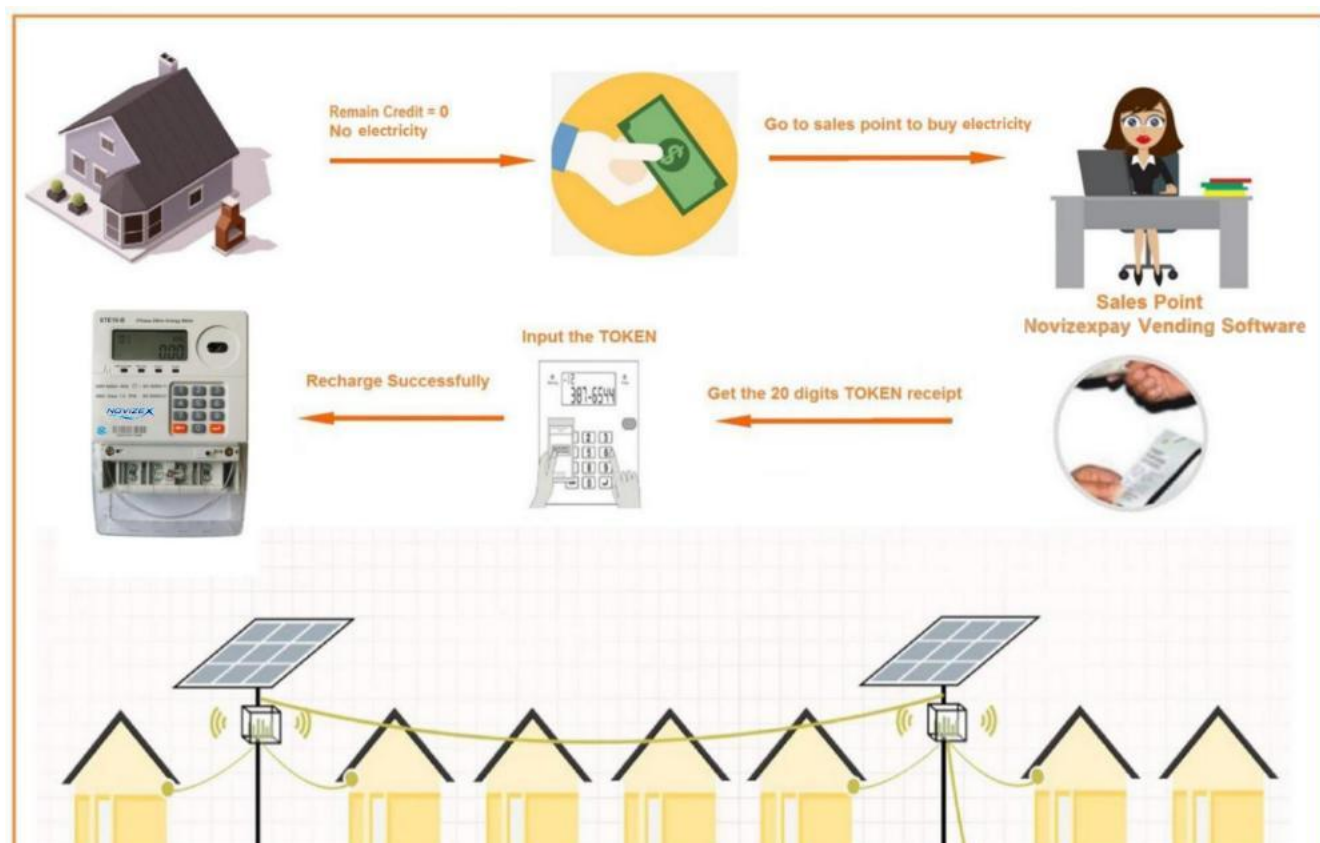
2. Symmetric Wiring



Three solutions to recharge prepaid meter

1. By Novizexpay vending Software

⇒ Via local sales point or handheld mobile vending unit



Operation of vending software

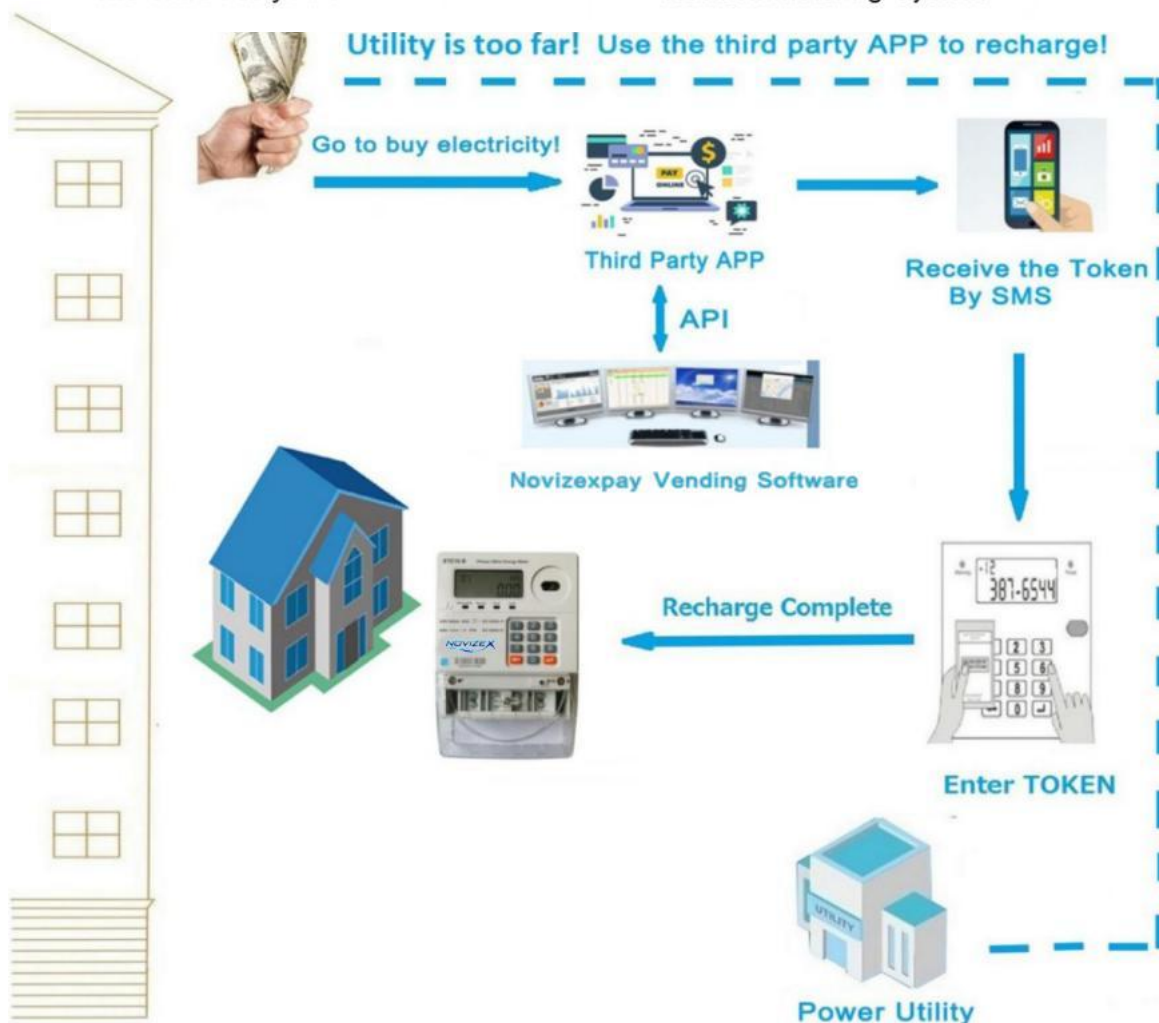
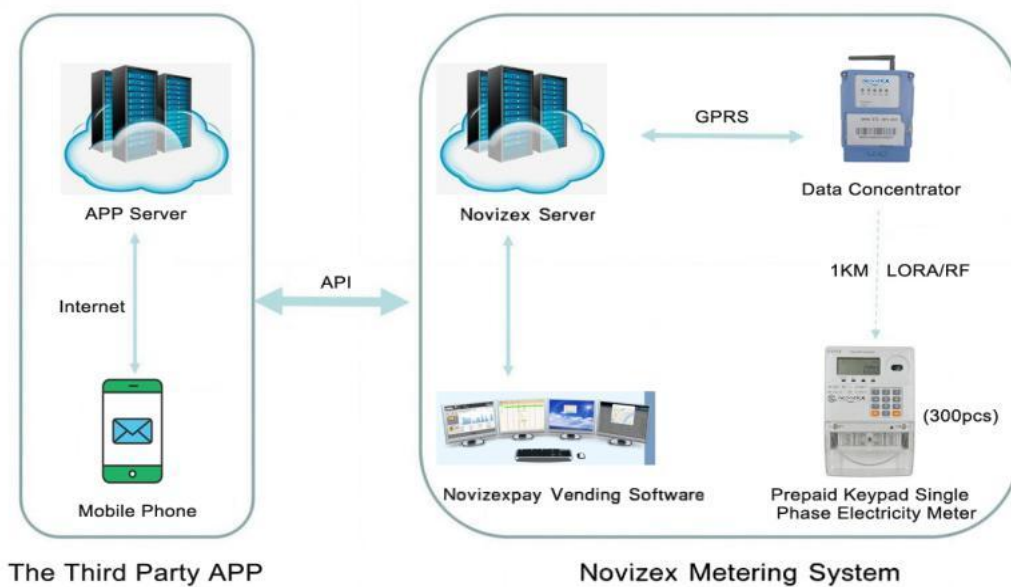
1. Login vending system
2. Meter number registration
3. Customer information registration
4. Price Setting
5. Open Account
6. Vending/Topping up meters
7. Get the Token
8. Input Token to meter with keypad
9. Recharging successfully



2. By the third party platform or local mobile payment with API

⇒ Via mobile phone

API: Application Program Interface, which is the agreement connecting the third party APP and our Novizexpay vending software.

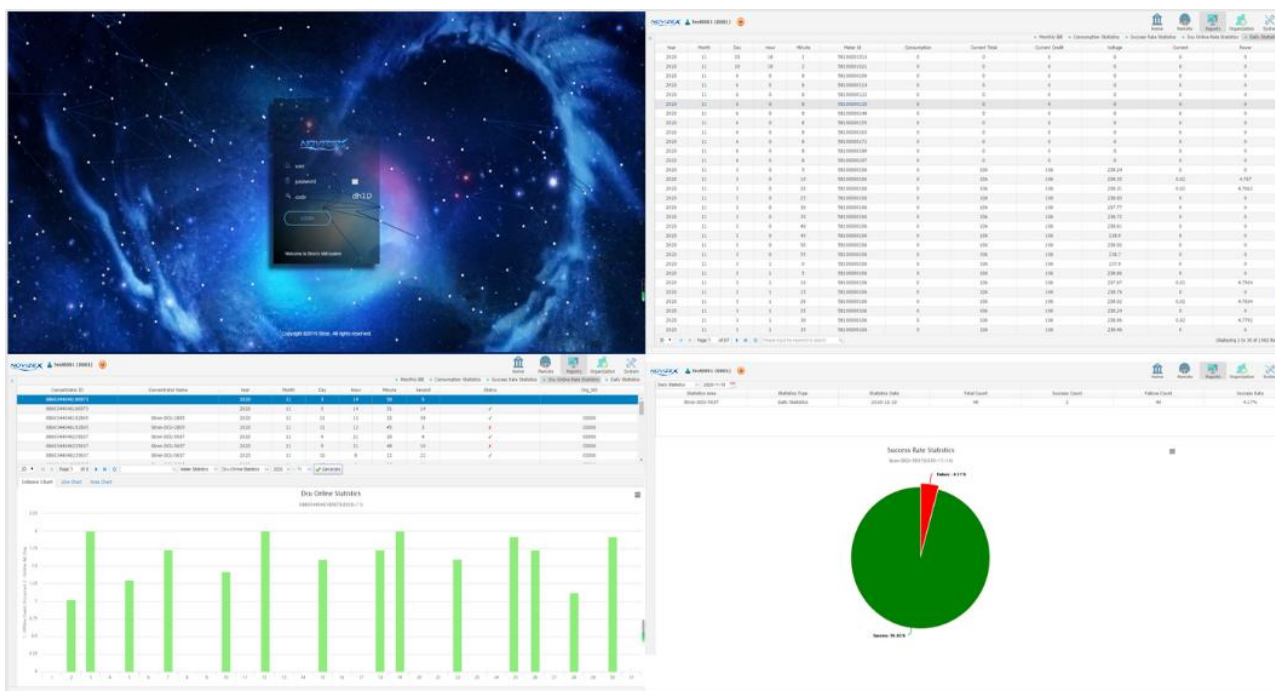


The advantages to recharge with mobile payment:

- * Users can top up meter by mobile money without leaving the house.
- * Users could check information by their telephone.
- * It helps utilities for revenue protection and consumer management.

3. By the AMI System

⇒ Recharge remotely via DCU and LORA-RF module



How to recharge by AMI System?

