

NOE18-G Prepaid Smart GPRS Single Phase Electricity Meter+CIU

IP54

Ingress protection IP54 waterproof



Up to 8 years battery life



Remote connection/disconnection

STS

STS Standard



Real-time clock

TOU

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.



NOE18-G composed of a prepaid single phase electricity meter and a customer interface unit(CIU). It used for a wide range of smart metering applications, works with a plug-in module for STS compliant data collection and network communications. This modular design enables utility to select from PLC/RF/GPRS 3G or 4G LTE cellular data networks according to local conditions at low cost. Upgrading and maintenance will also become cost-effective by replacing the modules only instead of the entire meter.

Application:

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

Compliance with Standard

- * ISO 9001 ; ISO 14001
- * STS Certificated

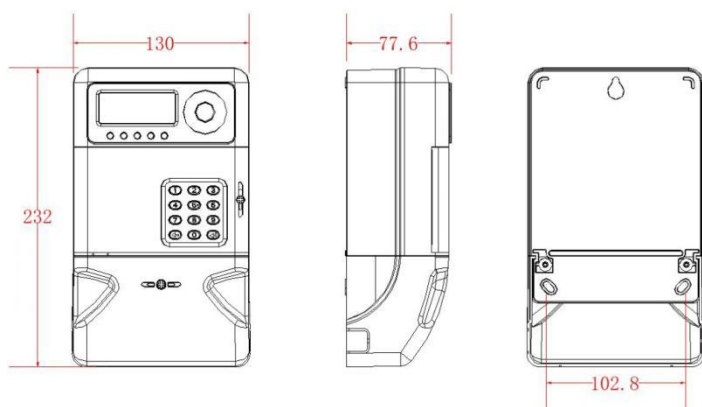
Electrical Parameters

Nominal Voltage	230V
Working Voltage Range	70%~120%Un
Nominal Frequency	50-60Hz
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



Functions

The integrated keypad of single phase electricity meter is offered to enter recharge TOKEN and check information by short codes.

The CIU installed in customer' s house, when the meter is kept away from customer' s reach in locked boxes or houses.

Basic Functions

- *Meter Recharge By Inputting TOKEN
- *Active energy measurement
- *MD(maximum demand measurement
- *Auto scroll mode display
- *Build-in relay control
- *Event log
- *Low Credit Alarm

Communication:

The meter is available with AMI system through LORA-RF/PLC/GPRS module on request.

TOU Tariff:

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

Anti-Tamper Functions:

Meter will automatically close the valve after detection of magnetic field and open cover event.

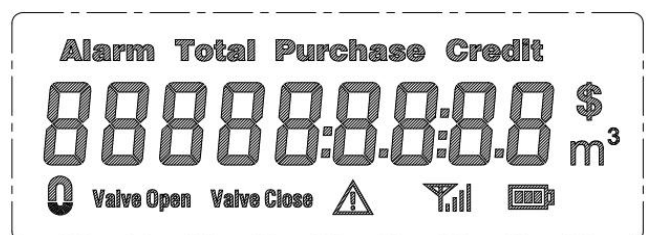
Overdraft Collection:

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

Information Inquiry:

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

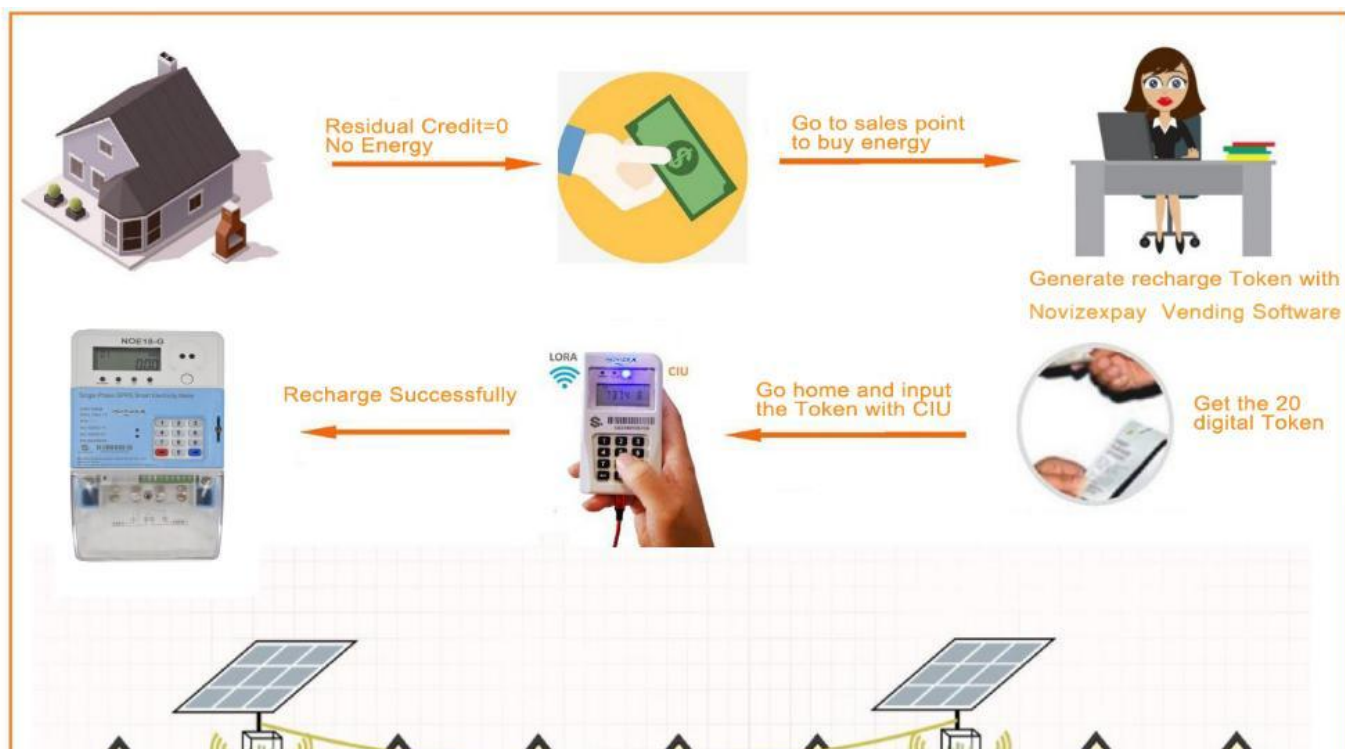
Liquid Crystal Display:



Three solutions to recharge prepaid meter

1. By Novizexpay vending Software

⇒ Via local sales point or handheld mobile vending unit



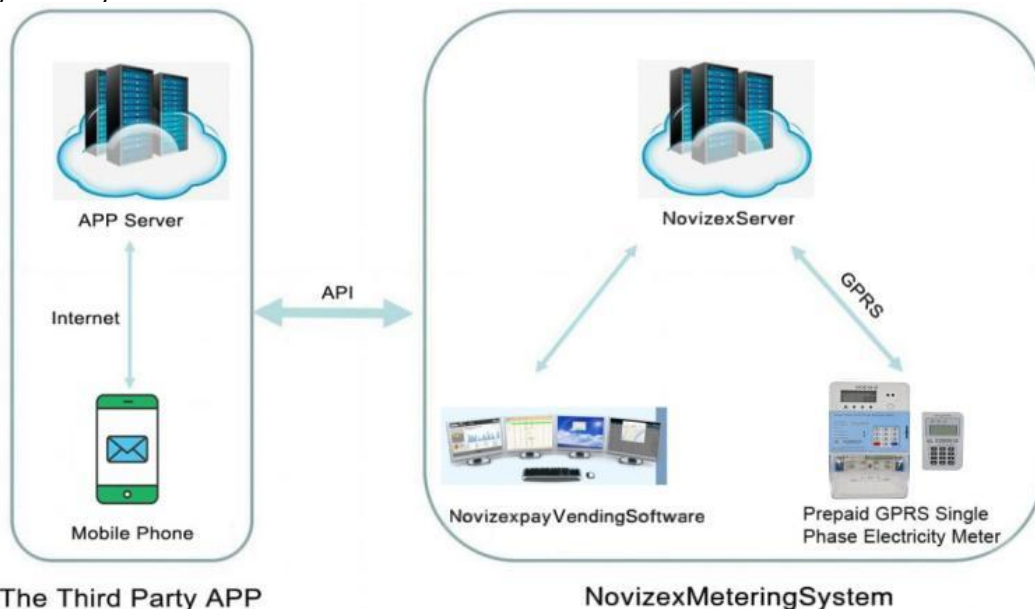
Operation of vending software

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 water by mobile money without leaving the house.
- * Users could check information by their telephone.
- * It helps utilities for Revenue water protection and consumer management.

3. By the AMI System

