

## NOE18-G Prepaid Smart GPRS Single Phase 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<br>Magnetic field protection                   |
|  | LORA-RF communication (optional)                           |
|  | Pay by mobile payment<br>M-PESA, Alipay, MTN, Airtel, etc. |



NOE18-G is used for a wide range of smart metering applications. It 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.

### Compliance with Standard

- \* ISO 9001 ; ISO 14001
- \* STS Certificated

### Application:

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

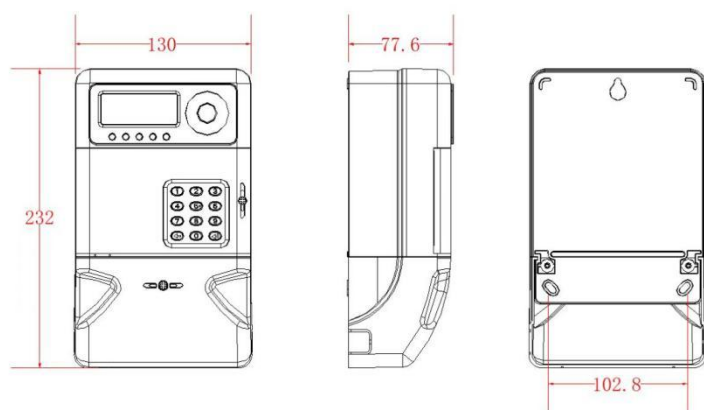
## Electrical Parameters

|                                      |             |
|--------------------------------------|-------------|
| 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.

Novizexpay vending software could be integrated to local Mobile Money Payment Platform via API, like M-PESA, Alipay, MTN, Airtel, etc.

### 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 or PLC 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.

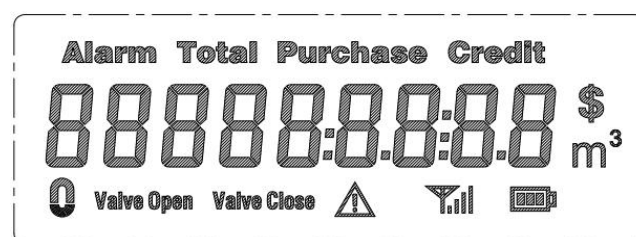
### Overdraft Collection:

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:

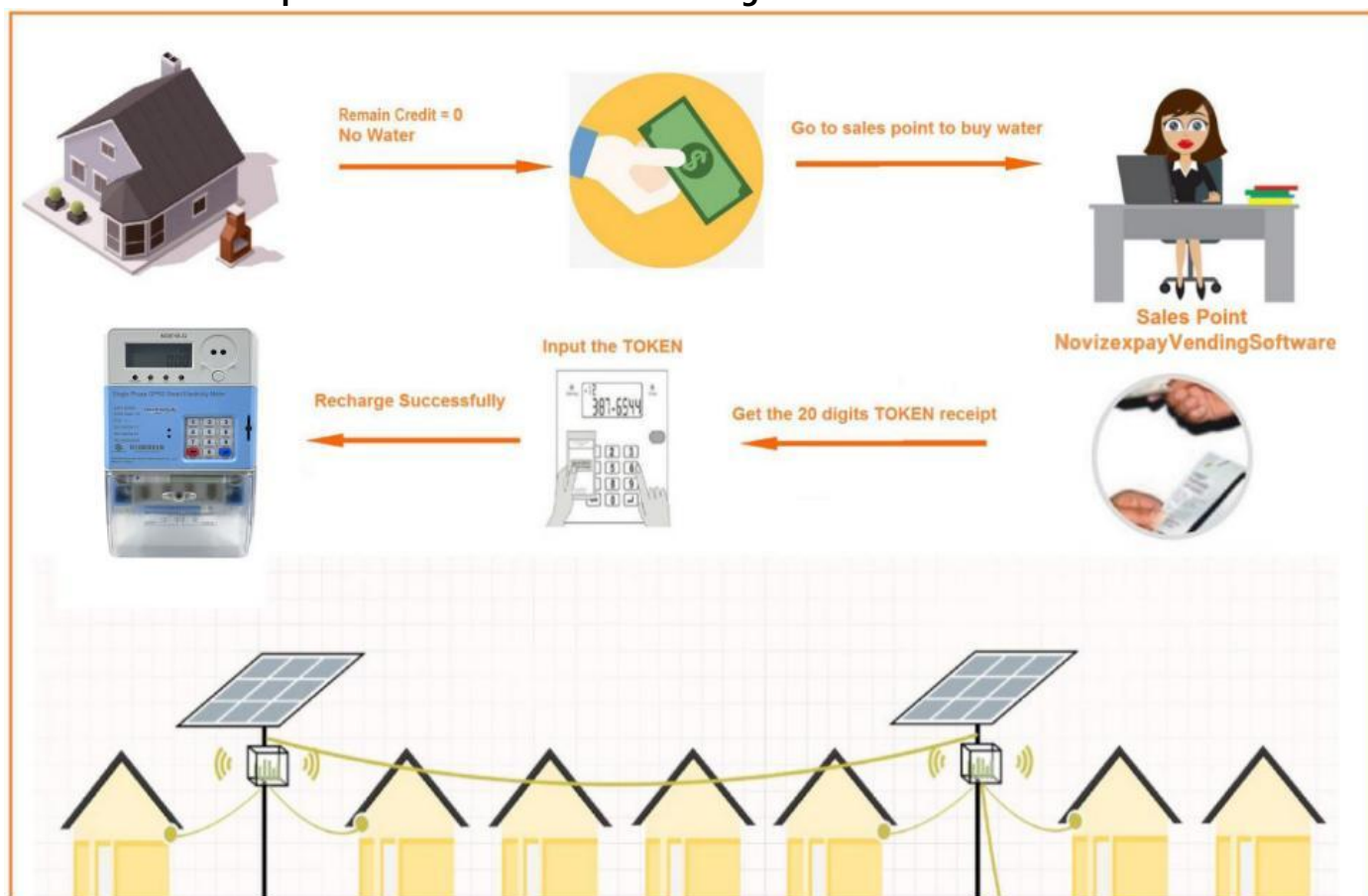




## Three solutions to recharge prepaid meter

### 1. By Novizexpay vending Software

⇒ Via local sales point or handheld mobile vending unit



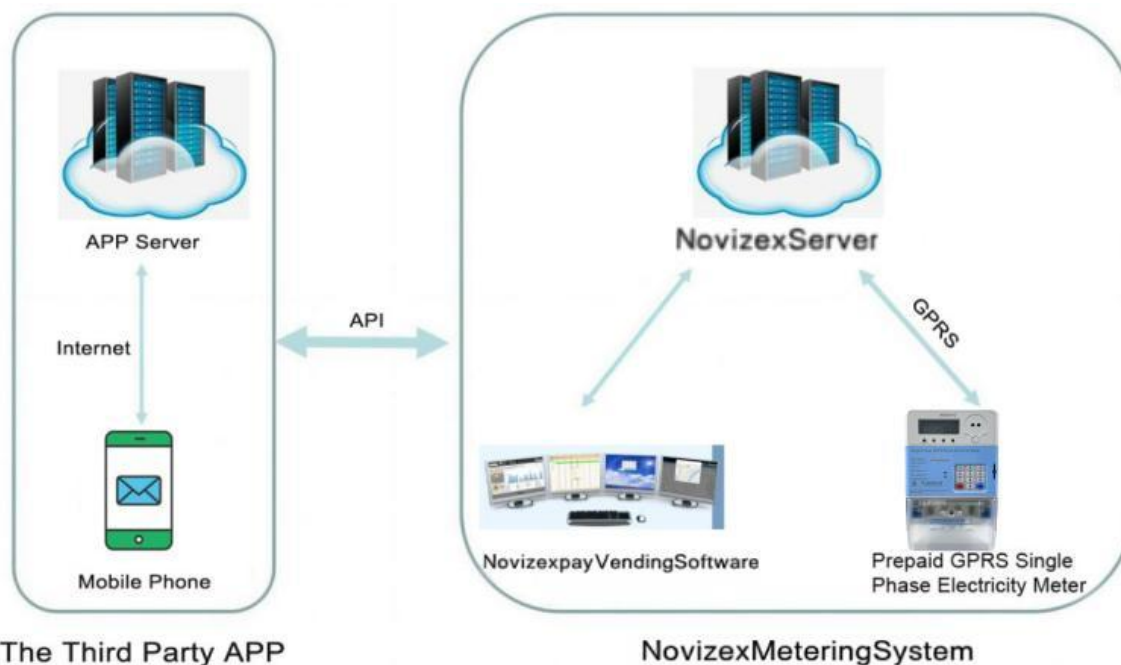
### Operation of vending software

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.

