

ShinDongA Electronics CO., Ltd.

1. SES Smart Electronic Water Meter

2. Full-Fledged Network Coverage

- 1) Automated Transmission – Compatible with Cabled Meter
- 2) AMR(Semi Auto) – Bluetooth
- 3) AMI(BLE Auto) – Bluetooth
- 4) AMI(Full Auto) – NB-IoT / LoRa

3. Web/Mobile Software

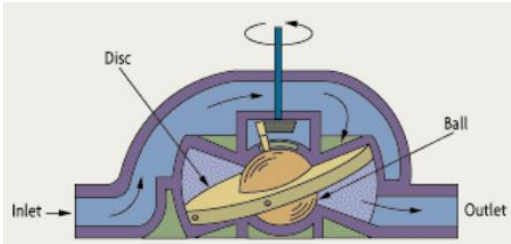
1. SES Smart Electronic Water Meter

Technology Trends

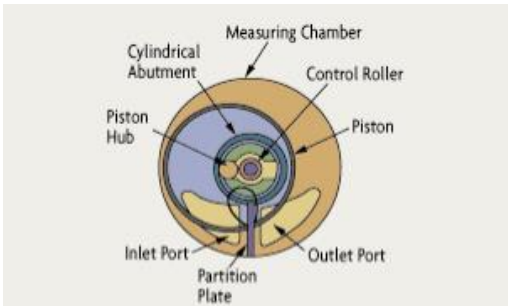
Source : Eighth Annual Water Conservation Showcase

1st Gen

Positive Displacement



[Nutating Disc]



[Oscillating Piston]

Mechanical Meters

[Advantage]

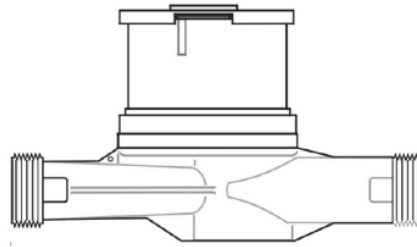
- Proven Technology
- Lowest price

[Disadvantage]

- Low Accuracy
- Particles Disturbance
- Wearing Parts
- Easy Manipulation
- Short lifespan

2nd Gen

Velocity



[Single Jet]



[Multi Jet]

3rd Gen

Solid State



Fluidic Oscillator



Ultrasonic



Magnetic

Solid State Meters

- No Moving Parts to Wear Out
- Operation Free
- No Maintenance Required
- Enhanced Accuracy
- High Flow Durability
- Longer lifespan

1. SES Smart Electronic Water Meter

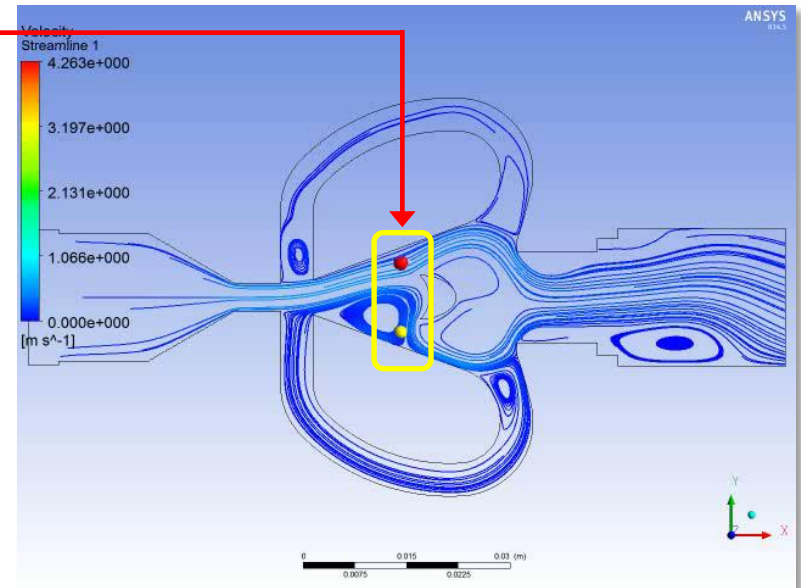
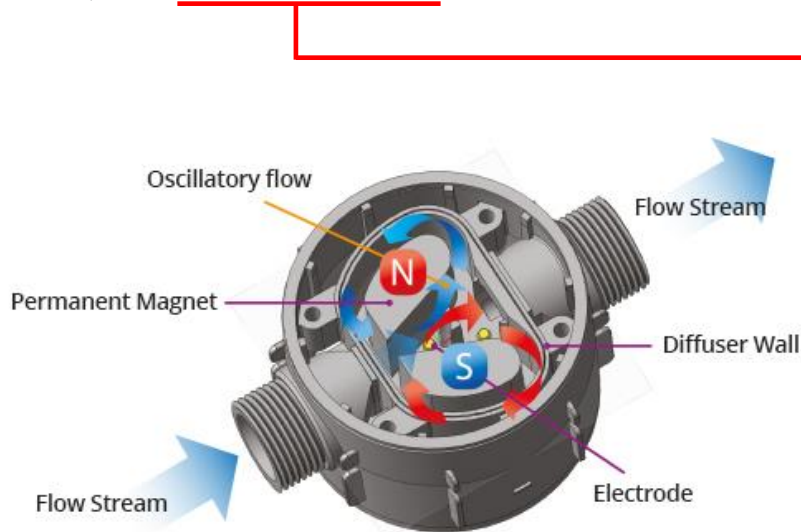
Principle of Fluidic Oscillation

A special design of water flow chamber creates a fluctuating pressure sequence that causes the water flow to oscillate.

The fluidic oscillator consists of a nozzle, bi-stable diffuser and two feedback channels and classified into two different groups – wall attachment devices and jet interaction devices.

The oscillators in the wall-attachment class (our product) are based on the attachment of a fluid jet to an adjacent wall, a phenomenon known as the "**Coanda effect**".

Based on magnetic force being produced during this process, Our meter measures flow of water detected by **2 electrodes**.



1. SES Smart Electronic Water Meter

SES Electronic Water Meter Technology



impeller

No moving Parts (No wear)

IP68

IP68 Water Proof



Horizontal or Vertical



Enhanced Accuracy



Reverse flow detect



No Air Count



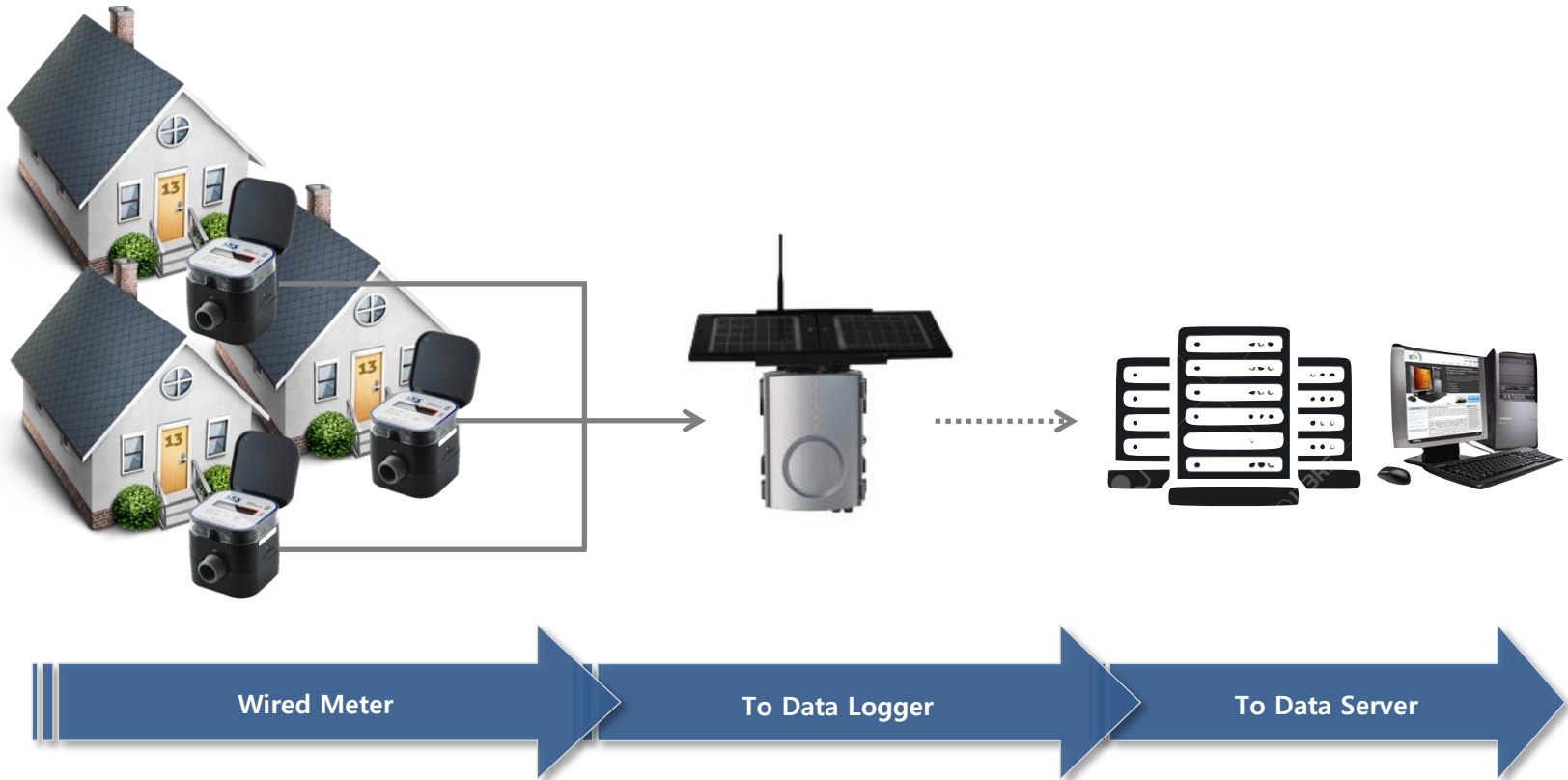
No Hazardous Materials



No Manipulation

2. ALL Network Coverage

- 1) Automated Platform – Cabled RS485 / Pulse / TTL
- Compatible Wired Meter with Wireless Data Logger



2. ALL Network Coverage

2) Semi Auto – AMR

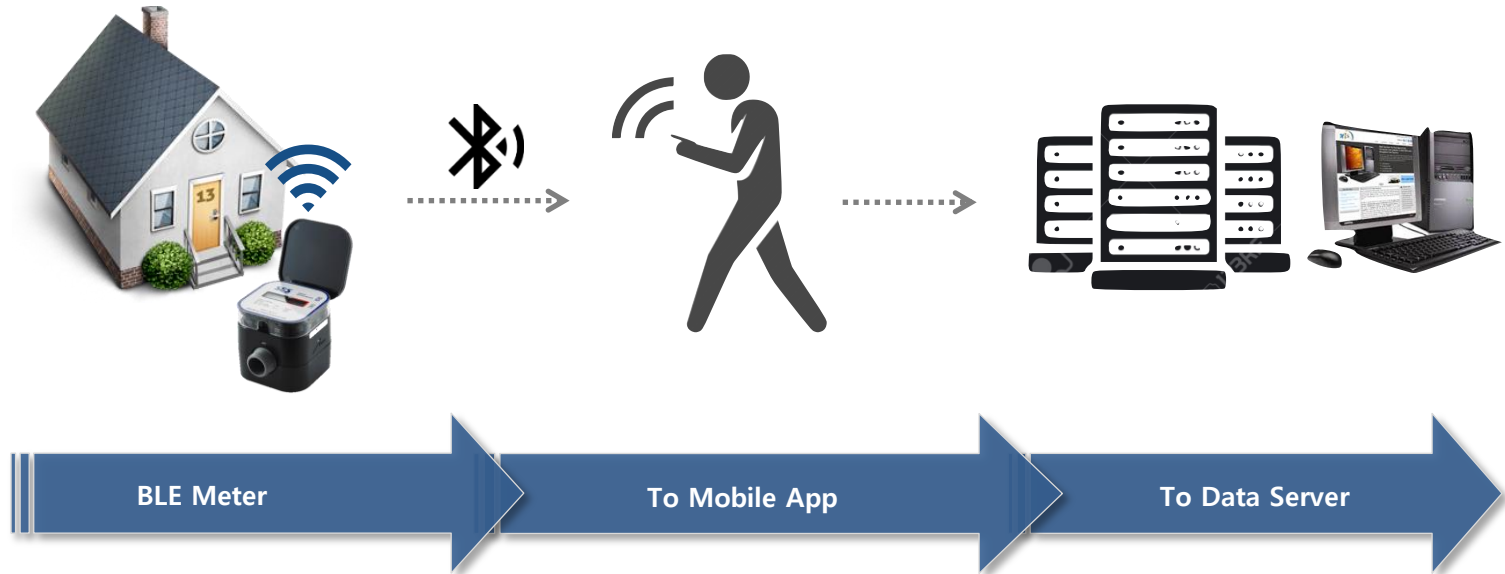
- BLE Meter + Mobile App + Server



Powered by Android



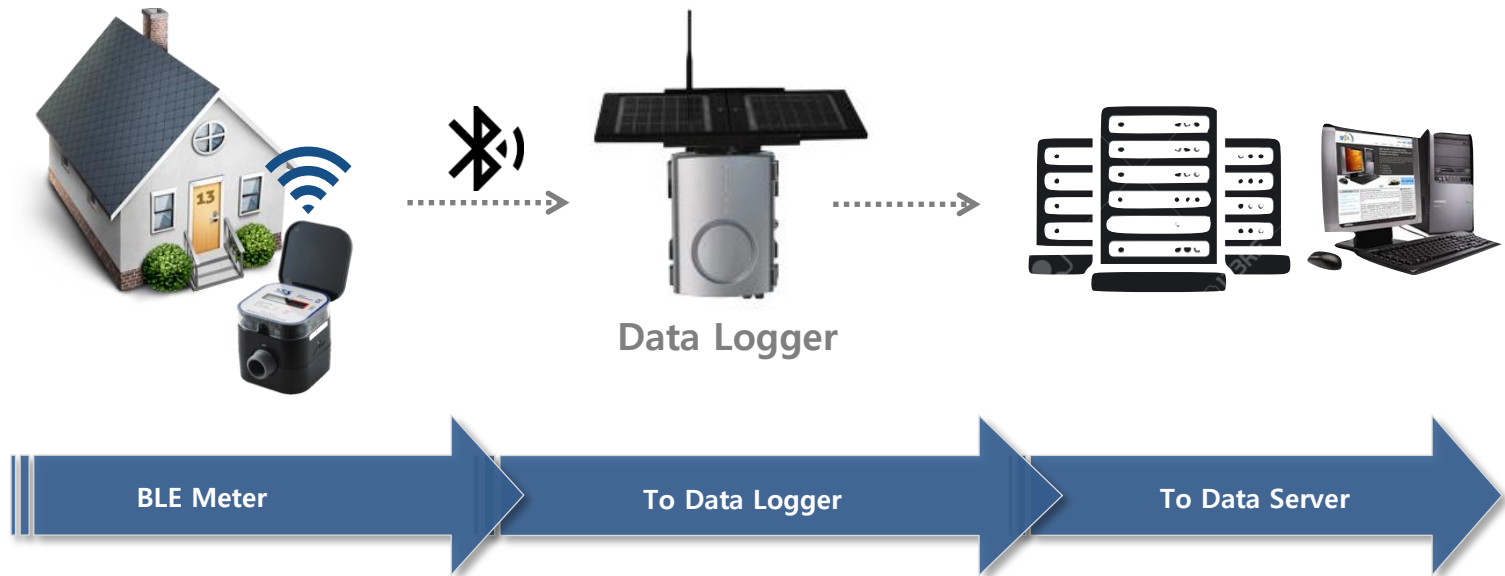
Bluetooth 5.0 above



2. ALL Network Coverage

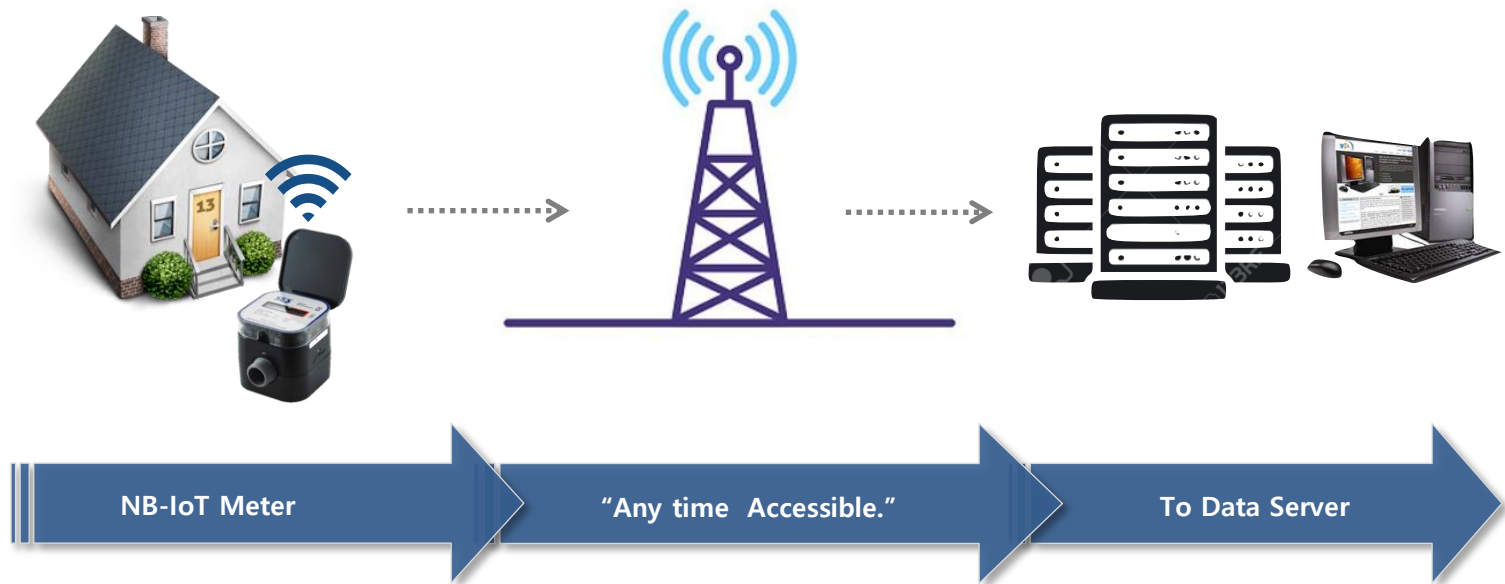
3) BLE Auto – AMI

- BLE Meter + Data Logger + Server



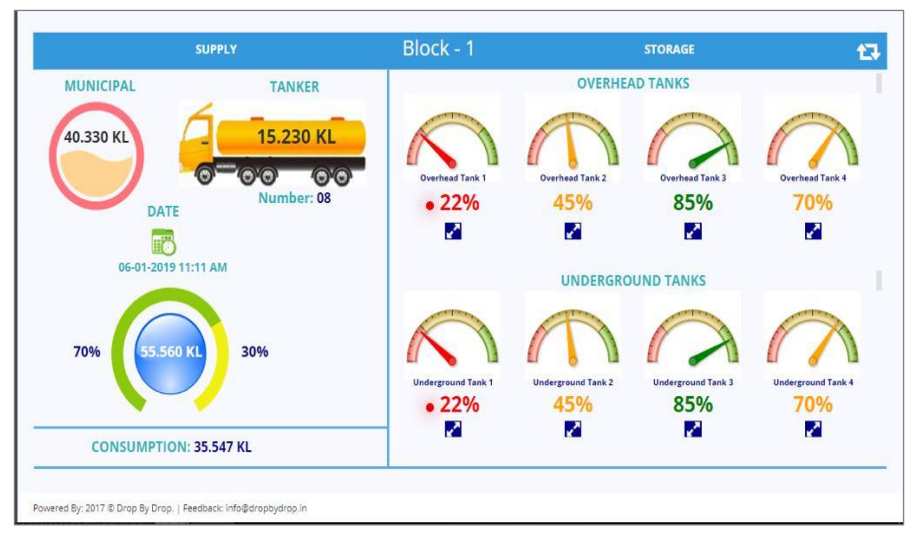
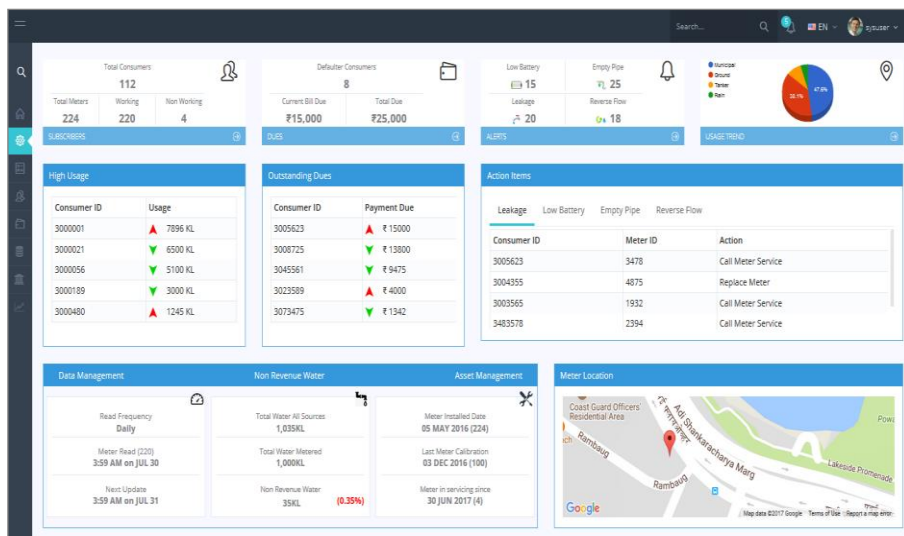
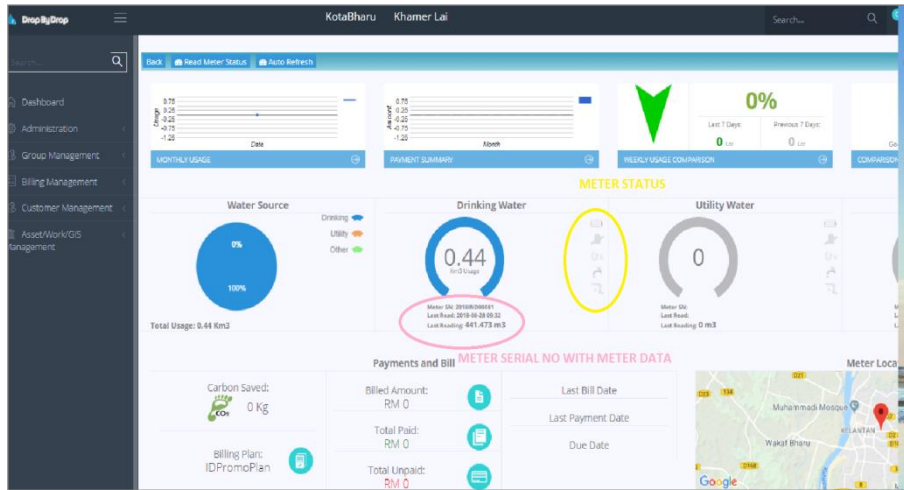
2. ALL Network Coverage

3) Full Auto AMI – NB-IoT / LoRa



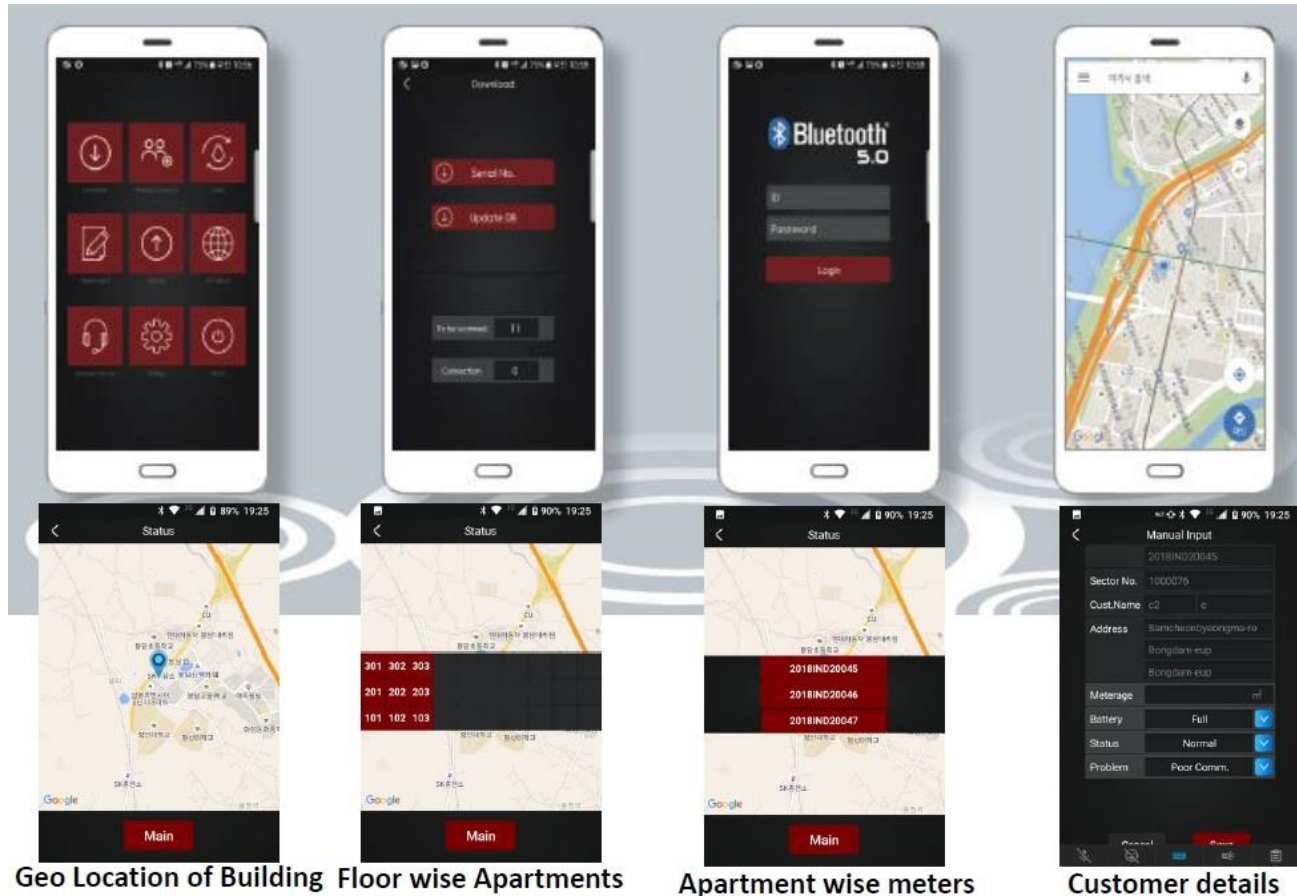
3. Web / Mobile Software

1) DBD Web DashBoard



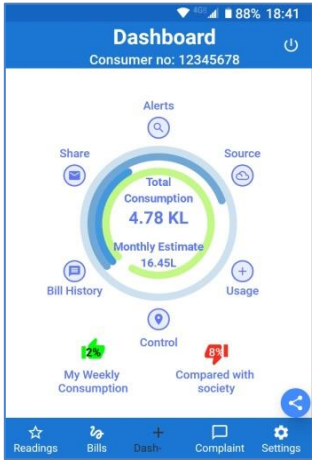
3. Web / Mobile Software

2) Mobile App for Meterman



3. Web / Mobile Software

3) Mobile App for User



Select Language

- English
- Hindi
- Marathi
- Korean
- Chinese
- Vietnamese
- Spanish
- Indonesian
- Malay

Readings Bills Dashboard Complaint Settings

Readings
Consumer no: 12345678

Multiple Meters detected!
Address: 92-5, Wangnim-ri, Bongdam eup., Hwaseong si.Gyeonggi-do, SOUTH KOREA

Meter Sr. No.	Location	Use	Last Read/Date	Action
1. 2019SEST0001	Kitchen	Drinking	6306.13 16/04/2019 12:58:38	
2. 2019SEST0002	Bathroom 1	Utility	7850.00 16/04/2019 13:05:50	

Frequency Type
Daily AMR-Wireless - BLE Automatic

Weekly Manual-Wireless - BLE Scan Reading

Readings Bills Dashboard Complaint Settings

Meter Valve
Consumer no: 12345678

Premise has Multiple Valve
Address: 92-5, Wangnim-ri, Bongdam eup., Hwaseong si.Gyeonggi-do, SOUTH KOREA

BATHROOM 1 BATHROOM 2 KITCHEN

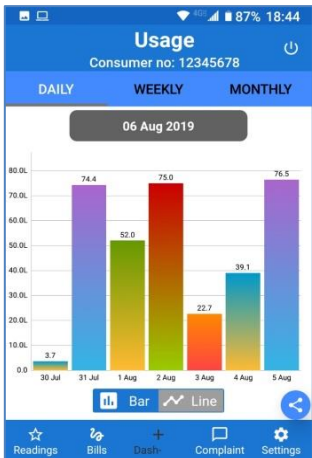
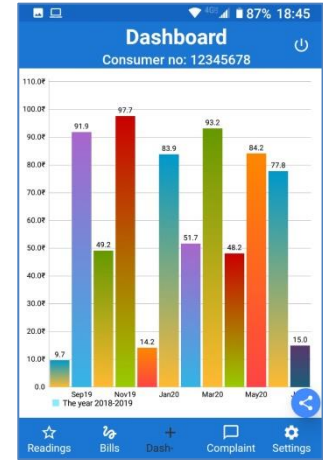
1. Meter Sr. No. : 534525254235
Location : Main Connection Outside
Meter fitted with inbuilt valve

Current Position :Closed

New Position

TODAY NEXT CHECK-IN

Readings Bills Dash Complaint Settings



Complaint
Consumer no: 12345678

REGISTER VIEW STATUS

COMPLAINT DETAILS

*Complaint Type
--Select Complaint Type--

*Complaint Sub Type
--Select Complaint Sub Type--

*Description
Enter Description

Select Photo
CAMERA GALLERY

SUBMIT

Readings Bills Dashboard Complaint Settings

Vodafone IN
View Bills
Consumer no: 12345678

Due Date: 25/10/2019

Balance: Rs. 4350.00

Make Payment

Billing Period: From 21/06/2019 To 21/07/2019

Current Bill Date: 21/07/2019

Current Bill: Rs. 4350.00

Last Bill: Rs. 4350.00

Total Paid: Rs. 4350.00

View Bill

Readings Bills Dashboard Complaint Settings

Settings
Consumer no: 12345678

Language: English

Notifications

Meter

Contact Us

Version: 1.0.0

About Us

Readings Bills Dashboard Complaint Settings

Welcome Back,
Sign in to continue

Email

Password

Forgot Password?

Login

New user? Sign Up