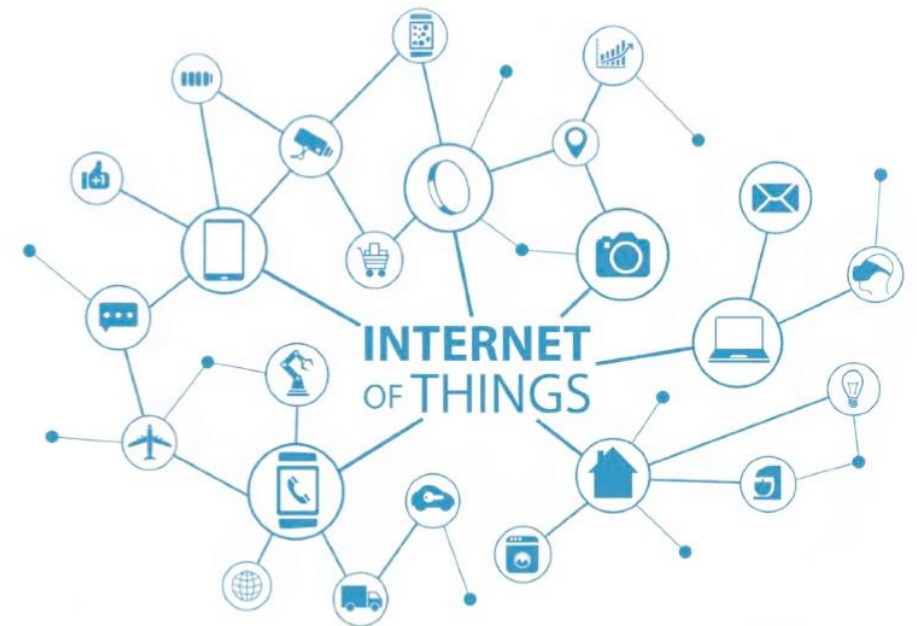




**AK INFOS**

[www.akinfos.com](http://www.akinfos.com)

# SMART GAS METER INTELLIGENT PLATFORM



### Safe use of gas



Gas safety is an important aspect of gas networks. Pipeline corrosion, gas leaks, excessive pressure and temperature, and dangerous customer behaviors are issues that require remote monitoring to quickly resolve.

### Fair use of gas



Smart gas IoT allows you to visualize what's happening inside your pipeline – whenever and wherever you want. Meanwhile, with more information acquired through meter-end, APP and internet, users are more aware of their energy consumption.



### Smart use of gas

Get real-time data with prioritized alarms and full data analysis that allow both the utility companies and users investing and using gas more efficiently.



High/Low Voltage  
Alarm then close valve



Close valve  
when Power off



Close Valve when strong  
Magnetic Interference



Long-term  
un-consumption  
Close valve



Abnormal Flow Rate  
Alarm then close valve



Abnormal  
Continuous Flow  
Alarm then Close  
Valve



Close valve when  
 $1.2Q_{max}$



Flow Rate  
Monitoring



Shut-off Valve  
when gas  
leaking



Remote Valve  
Control

# IOT Smart Gas Meter Functions

## Safety Management

### Anti-explosive

- Long term non-usage shutoff
- Abnormal tiny flow shutoff
- Overtime continuous flow shutoff
- Overflow shutoff
- Abnormal large flow shutoff
- Over 1.2Qmax flow shutoff
- Gas leakage shutoff
- Remote shutoff
- Safe re-set

### Information Security

- Meter-end
- Communication
- Systems

## Smart Management

- Remote re-charge
- Remote meter reading
- Remote valve control
- Remote lock/unlock valve
- Remote ladder pricing
- Remote time-of-use pricing
- Remote prepayment
- Remote query
- Daily data transmit
- Failure shutoff
- Metrological info management

- Valve failure reminding
- Shutoff records and query
- Remote shutoff preset
- Remote ladder pricing preset
- Maximum flow preset
- Continuous usage changing
- Low battery display and shutoff
- Meter reading date preset
- Status display
- Time synchronization
- Data logger for readings, alarms and events

## Intelligent Protection

- Low gas pressure shutoff
- Magnetic interferences shutoff
- High/low voltage shutoff
- Input outer alarm info and shutoff



LoRa(LoRAWAN)  
Smart Gateway



LoRa(LoRAWAN)  
Application Server



LoRa(LoRAWAN)  
Management Software

LoRaWAN™





Key Parameters	LoRa(LoRAWAN)
Techniques	Spread Spectrum
Network Deployment	Independent Station
Network Mode	Star Network
RF Band	EU 868 Mhz
Transmission Bandwidth	125khz-500khz
Indoor Penetration Capability	8dBm link boost
Transmission Distance	Visual distance 3 km
Rate	<300kbps
Number of Connections	2000-3000/hub
Meter TX power	14dBm
Meter RX sensitivity	LoRa -148dBm
Meter TX current	130mA
Meter RX current	10mA
Gateway TX power	0.5w
Gateway	Needed
Link Robustness	148dBm

DASHBOARD

CONNECTION Mgnt. ▾

CONNECTION Admin. ▾

PROCESS Mgnt. ▾

MAINTENANCE ▾

MASTER ▾

USER Mgnt. ▾

REPORTS ▾

LOG OUT

## Smart GAS Meter

Home - Dashboard

### CONNECTION Stats

Total SMART Connections



3

Residential



1

Commercial



5

Zones

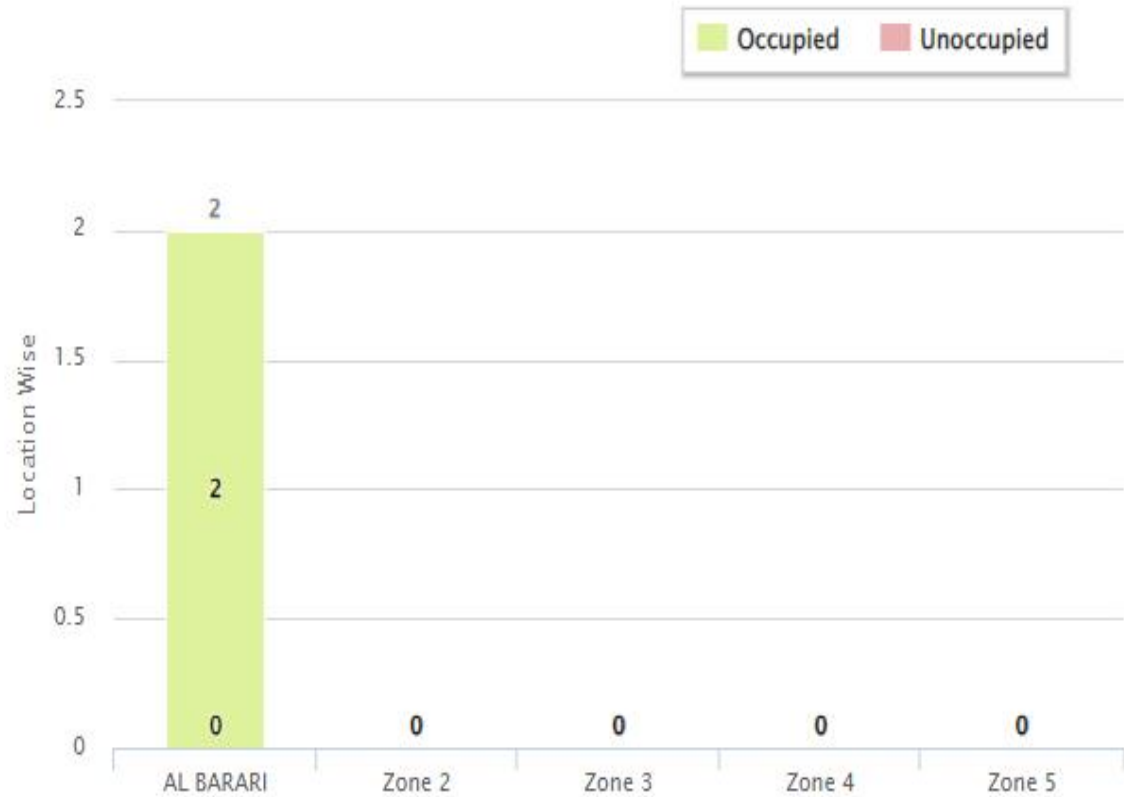


3

Groups

### COMMUNITY Overview

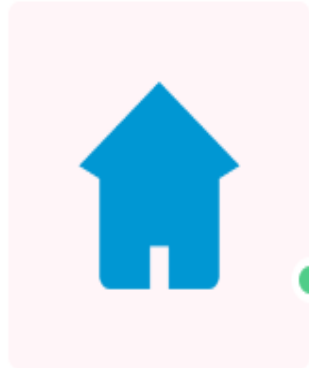
Occupied Vs Unoccupied





- DASHBOARD
- CONNECTION Mgnt. ▾
- CONNECTION Admin. ▾
- PROCESS Mgnt. ▴**
  - METER MANAGEMENT
  - STATUS - LIVE**
  - STATUS - BASE
- MAINTENANCE ▾
- MASTER ▾
- USER Mgnt. ▾
- REPORTS ▾

LOG OUT



**AKINFOS TEST 80327**

LoRaWAN

Active

REFRESH

LIVE

AI BARARI

support@akinfos.com

**A**  
CLASS

**Postpaid**  
MODE

**Open**  
VALVE

**01 Hr.**  
Rpt. Period

BATTERY Onboard

100%

- Overview**
- Signal Strength
- Settings
- Activity

### Profile Details

Full Name AKINFOS TEST 80327

Contact Phone 00971555074996 **Verified**

Email support@akinfos.com



# OUTSTANDING FEATURES

of IoT Smart Gas Meter

Real-time  
Bi-directional  
Communication

12 Safe Shut-off  
Remote control

Leakage  
Notification

Transparent  
Billing

Integrated  
Resource  
Management

2+ year  
Battery life



OFFICE NO. 6, MEZZANINE FLOOR,  
AL RAMOOL OASIS BUILDING,  
UMM RAMOOL, DUBAI, UAE.



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Thank  
You