

## IC Card Smart Gas Meter



Highly secured with logic encryption card and CPU card  
Legible LCD display  
High measurement accuracy  
No magnetic interference with over-current protection

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### Description

The IC card smart gas meter with prepayment function is equipped with functional modules such as IC card and valve control switch to complete the gas volume reading and settlement. The meter accumulates the gas volume purchased by the user, monitors and records the gas use process, as well as conducts terminal settlement. It also automatically manages the valve according to the remaining gas volume and its operating status. Through the prepayment management system, independent payment terminal and Bluetooth card reader, the gas utility's charging and user payment needs could be satisfied.

### Features

Highly secured with logic encryption card and CPU card.

Rapid arithmetic speed and low power consumption with 16 digit RISC mixed signal processor.

Legible LCD display.

Protects against various malicious attacks in real-time recording and the valve is automatically closed. Simultaneously, the gas consumption information will be transmitted to the gas sales management system via the IC card.

Data download of accumulated gas consumption and various abnormal error logs.

Real time monitoring of basic gas meter

Optional real time clock. The gas consumption can be controlled and managed within time-interval and the user's actual gas consumption can be counted by time periods

Prepayment functionality

Gas anti-stealing

High measurement accuracy

Excellent card compatibility and system integration

Autonomous valve shut off due to zero gas consumption, loss of power, deadlock and under-voltage

No magnetic interference with over-current protection

### Application

### Specifications

Type	G1.6	G2.5	G4
$Q_{\max}$ (m <sup>3</sup> /h)	2.5	4	6
$Q_{\min}$ (m <sup>3</sup> /h)	0.016	0.025	0.04
Accuracy class	1.5		
Working voltage	6V		
Battery	AA alkaline battery (NO. 5)		
Working temperature	- 10°C~40°C		

Maximum working pressure	30kPa
Average working current	≤1mA
Quiescent current	≤20μA
Pressure absorption	≤250Pa
Meter fittings central distance (mm)	130
Degree of protection	IP65
ATEX	ExibII BT3 Gb
Measuring resolution	0.1m <sup>3</sup>
Read-write cycles of IC card	>100000 cycles
Card slot durability	> 10000 cycles
Valve durability	>10000 cycles
Communication mode	Contact IC card

## LoRaWAN Smart Gas Meter



Timed reporting and push-button trigger reporting  
Step pricing, real-time price adjustment and amount settlement  
Remote recharging and monitoring  
Remote valve control

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### Description

A smart gas meter is equipped with an intelligent controller based on LoRa spread spectrum communication technology installed on the base meter to realize remote meter reading, alarm, valve control and other functions.

### Features

Timed reporting and push-button trigger reporting  
Long reading distance and strong anti-interference ability using LoRa spread spectrum technology  
Step pricing, real-time price adjustment and amount settlement  
Remote recharging and monitoring  
Free Network adopting ISM public frequency channel  
Data analysis and storage  
Valve shut-off due to non-metering  
Error-correcting mechanism with high meter reading accuracy  
Remote valve control  
Valve shut-off due to overflow  
Valve shut off due to no gas used for a long time  
Valve shut off due to loss of communication  
Reporting due to failure  
Abnormally flow rate alarm  
Valve shut off due to zero gas consumption

### Application

### Specifications

Type	G1.6	G2.5	G4
$Q_{max}$ (m <sup>3</sup> /h)	2.5	4	6
$Q_{min}$ (m <sup>3</sup> /h)	0.016	0.025	0.04
Accuracy class	1.5		
Working voltage	6V		
Battery	AA alkaline battery (NO. 5)		
Battery life (year)	≥1 (Report once a day)		
Working temperature	- 10°C~40°C		

Maximum working pressure (KPa)	≤30
Pressure absorption (Pa)	≤250
Meter fittings central distance (mm)	130
Degree of protection	IP65
ATEX	ExibII BT3 Gb
Maximum working current	≤100mA
Quiescent current	≤15μA
Data storage (year)	10
Valve durability	>10000 cycles
Communication mode	LoRa
Success rate of meter reading	≥99

## NB-IoT Smart Gas Meter



Timed reporting and push-button trigger reporting  
Highly secured with data communication authentication and dynamic encryption  
Peak shift mechanism for channel congestion solving  
Public network without network maintenance

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### Description

Based on the narrowband Internet of Things network, the NB-IoT Smart Gas Meter is an Internet of Things intelligent instrument with the remote electronic controller and NB communication module to realize smart metering, remote meter reading control, step pricing and real-time price adjustment.

### Features

- Timed reporting and push-button trigger reporting.
- Highly secured with data communication authentication and dynamic encryption.
- Peak shift mechanism for channel congestion solving.
- Flexible setting for uploaded parameters with multiple upload modes by the day and the month.
- Upload and display useful information, including meter number, IMEI number, alarm information, meter clock, accumulated gas consumption, balance, valve status, dry lithium battery voltage, RSRP value, SNR value and module firmware version etc;
- Remote valve control function: early warning valve shutoff and forced valve shutdown, remote and local configuration mode, and infrared communication interface.
- Signal enhancement function: reserved interface, when the wireless communication signal encounters blockage, the signal can be enhanced through external antenna, adding the IOT small station and other modes to ensure the stability of the uploaded data signal.
- Data storage with 10 years monthly and 60 days daily gas consumption.
- Convenient recharging: payment or recharge can be made through bank, mobile app, self-service terminal and other channels.
- Public network without network maintenance.
- Step pricing, real-time price adjustment and amount settlement.
- Valve shut-off due to non-metering.
- Error-correcting mechanism with high meter reading accuracy.

### Application

### Specifications

Type	G1.6	G2.5	G4
$Q_{max}$ (m <sup>3</sup> /h)	2.5	4	6
$Q_{min}$ (m <sup>3</sup> /h)	0.016	0.025	0.04
Accuracy class	1.5		
Working voltage	6V		
Battery	AA alkaline battery (NO. 5)		
Battery life (year)	≥1 (Report once a day)		
Working temperature	- 10°C~40°C		

Maximum working pressure (KPa)	≤30
Pressure absorption (Pa)	≤250
Meter fittings central distance (mm)	130
Degree of protection	IP65
ATEX	ExibII BT3 Gb
Maximum working current	≤300mA
Quiescent current	≤15 μA
Data storage (year)	10
Valve durability	>10000 cycles
Communication mode	NB-IoT
Success rate of meter reading	≥99%
Accurate rate of meter reading	100%

## Ultrasonic Domestic Gas Meter



- Large range ratio
- Small starting flowrate
- Two-way measurement
- Fault self-detection
- Valve shut-off due to overflow
- High measuring precision with more stationary error curve

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### Description

Ultrasonic gas meter is a fully electronic speed metering device developed and produced by our company that uses ultrasonic measurement. It is characterized by non-contact, no moving parts, large range ratio, good linearity, high reliability and high measurement accuracy.

### Features

- Low pressure absorption
- No mechanical wear
- Good repeatability
- Ultra compact
- No moving parts
- High measuring precision with more stationary error curve
- Temperature and pressure compensation
- Stable operation and long service life without noise
- Non-magnetic element and measurement not easily affected by magnetic field
- Large range ratio
- Small starting flowrate
- Two-way measurement
- Fault self-detection
- Valve shut-off due to overflow

### Application

### Specifications

Type	G1.6	G2.5	G4
$Q_{\max}$ (m <sup>3</sup> /h)	2.5	4	6
$Q_{\min}$ (m <sup>3</sup> /h)	0.016	0.025	0.04
$Q_{\text{start}}$ (dm <sup>3</sup> /h)	3	5	5
Range ratio	200: 1		
Accuracy class	1.5		
Working voltage	6V		
Battery	AA alkaline battery (NO. 5)/ lithium battery 3.5V		
Working temperature	- 15°C~50°C		

Maximum working pressure	30kPa
Average working current	≤1mA
Quiescent current	≤20μA
Pressure absorption	≤140Pa
Meter fittings central distance (mm)	130
Degree of protection	IP65
ATEX	ExibII BT3 Gb
Measuring resolution	0.001m <sup>3</sup>
Valve durability	>10000 cycles
Temperature and pressure compensation	Optional