

# CHNT

Empower the World



## Gas Meter

# ABOUT CHINT



## CHINT A leading global provider of smart energy solutions

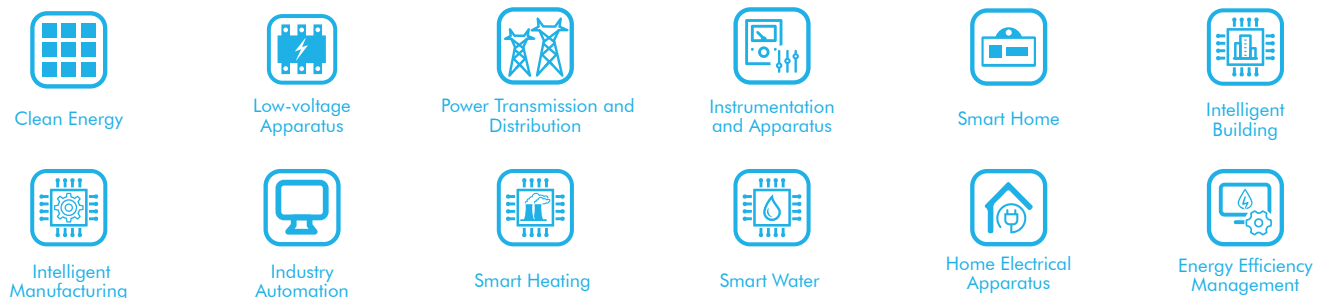
CHINT was established 38 years ago in 1984 and built from the capital of approximately 8,000 US dollars. With our rapid development these years, CHINT has become the world's leading intelligent energy solutions provider for the whole industrial chain with the most complete product ranges. In 2021, our annual sales revenue exceeded 16.1 billion dollars and total assets of more than 16.2 billion.

Over two decades of global expansion, our business network covers more than 140 countries and regions worldwide in business industries of low-voltage electric, power transmission and distribution, smart technology, energy instruments and meters, green energy, solar and more. CHINT has more than 40,000 employees worldwide, creating more than 200,000 jobs in the industrial chains.

As the market localization progresses steadily, CHINT Global further establishes its supply chain through business integration and industrial upgrade. Optimizing the service system and project financing, providing innovatively integrated technical services for the global energy market, and a flexible working business model, energy, intelligent manufacturing and digital technology, CHINT has adopted "One Cloud & Two Nets" as the business strategy, takes "CHINT Cloud" as the carrier of intelligent technology and data application, and takes the lead in building the energy Internet of things (EIoT) and industrial Internet of things platforms (IIoT).

Focusing on the energy system of supply, storage, transmission, distribution and consumption, CHINT has core businesses of clean energy, energy distribution, big data and energy value-added services. Furthermore, CHINT's pillar businesses include photovoltaic equipment, energy storage, power transmission & distribution, low-voltage apparatuses, intelligent terminals, software development and control automation. By developing into a platform-based enterprise, CHINT provides a package of energy solutions for public institutions, industrial & commercial users and end-users, by building a regional smart energy operation ecosphere.

### Main Businesses









# ABOUT CHINT INSTRUMENT & METER

Zhejiang CHINT Instrument & Meter Co., Ltd was founded in 1998 - one of the core subsidiaries of CHINT Group, a national high-tech enterprise, Chinese Torch Program key high-tech enterprise.






CHINT Meter provides reliable products and qualified services to our customers in electricity, gas, water, new energy, rail transmit communication, petrochemical architecture industry, and more. We served over 30 provinces' utility companies in China and more than 30 countries and regions overseas.

- Innovative Environment: 154 patents, 189 software copyrights, 80 elevations of national industry standards.
- Core member of Wi-SUN and G3-PLC alliance, products have passed MID, IDIS, DLMS, STS, IEC2020 and EN16314R certification.
- More than 5 million Smart Electricity meters and 10 million Gas Meters have been deployed overseas, covering more than 30 countries and regions.

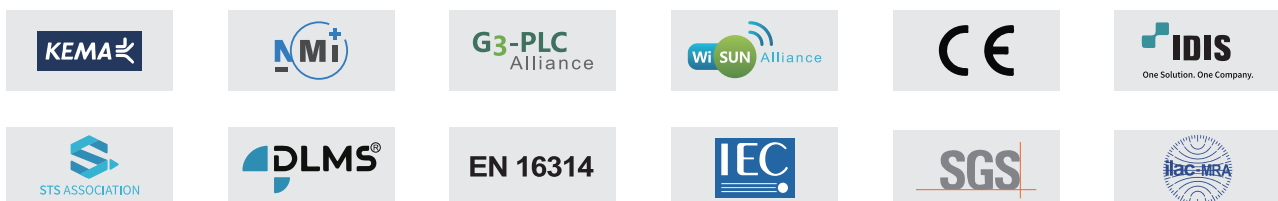
## Our Products and Solutions

 Smart Electricity Metering Solution	 Power Supervision and Control Meter
 Smart Gas Metering Solution	 Energy Measurement System
 Smart Water Metering Solution	 Power Distribution Monitoring Solution

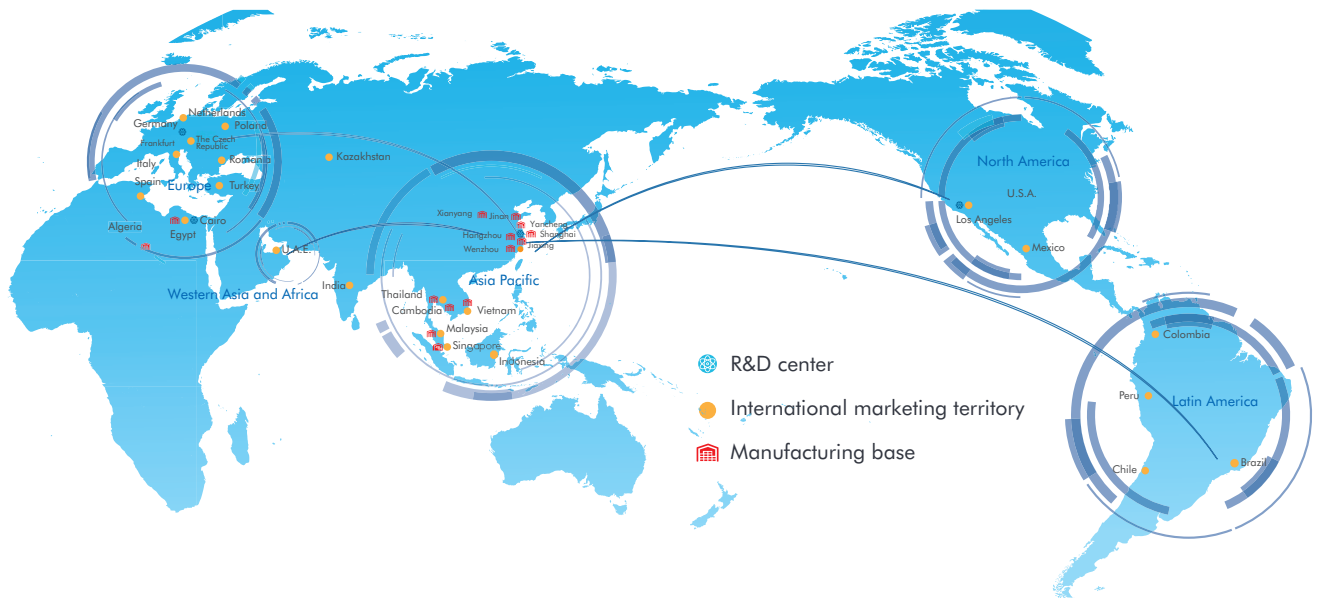
## Our Advantages

-  We provide and integrate the entire chain from power generation, storage, transmission, substation, distribution to utilization
-  China's FIRST R46 certification issued by the International Organization of Legal Metrology (OIML)
-  Million-level AMI field operation experience
-  A one-stop smart city solution for Electricity, Gas and Water
-  China's largest gas meter exporter with ten million-level gas meter experience

## Qualification Certification



# GLOBAL FOOTPRINT



**4** National R&D Centers: North America, Europe, Asia Pacific, North Africa

**6** International Marketing Territories: Asia Pacific, Western Asia and Africa, Europe, Latin America, North America, China

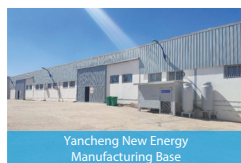
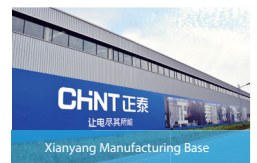
**14** Manufacturing Bases: China (Wenzhou, Hangzhou, Shanghai, Jiaxing, Xianyang, Jinan, Yancheng), Thailand, Singapore, Vietnam, Malaysia, Egypt, Algeria and Cambodia

**20+** International Logistics Centers

**2300+** Sales Companies

## GLOBAL CAPACITY LAYOUT

The industrial manufacturing bases are mainly located in Wenzhou, Hangzhou, Shanghai, Jiaxiang, Xianyang and Yancheng. Additionally, CHINT has set up factories in Thailand, Singapore, Vietnam, Malaysia, Egypt, Cambodia etc.



# R&D, QUALITY, SALES, LOGISTICS

## Main Advantages

### Global R&D System

CHINT has established national R&D centers in North America, Europe, Asia Pacific, North Africa and other areas. We have explored the mode of Industry-University Research Institute Collaboration and Integration together with the universities and research institutions worldwide so as to integrate the global innovation resources and promote corporate R&D innovation and talent cultivation.



24 research institutes



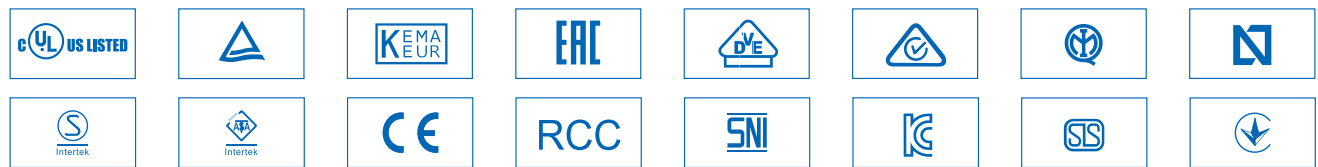
The average annual R&D investment accounts for 4-12% of the revenue



Over 6000 patents in total

## Global Certification

The products have passed the standards and specifications in various regions around the world and obtained numerous international certifications



## Honors

- No. 1 in China's Top 100 Private Enterprises with Social Responsibility in 2021
- No. 92 in 2021 China's Top 500 Private Enterprises
- No. 244 in 2021 Top 500 Chinese Enterprises
- The intelligent manufacturing factory of low-voltage electrical appliances was selected as the national 2021 Intelligent Manufacturing Demonstration Factory



### Integrated Vertical R&D

By gathering the global industry elites to Provide safe and stable energy-saving green and advanced electric products.



### Great Quality System

Ensuring flaw-free and trouble-free products, the multi-dimensional and multilevel control is conducted through procurement, inspection, quality control and certification.



### One-stop Services

CHINT's concept is that it is not difficult to fulfill a high-quality logistics distribution at one time, while it is difficult to stay as accurate and prompt as the first-time. High-efficiency and high-precision accuracy are our requirement.



### 48-Hour Response

Providing end-to-end one-stop services for customers with complains, business consulting and technical support by solving problems immediately and including any possible problems in advance.

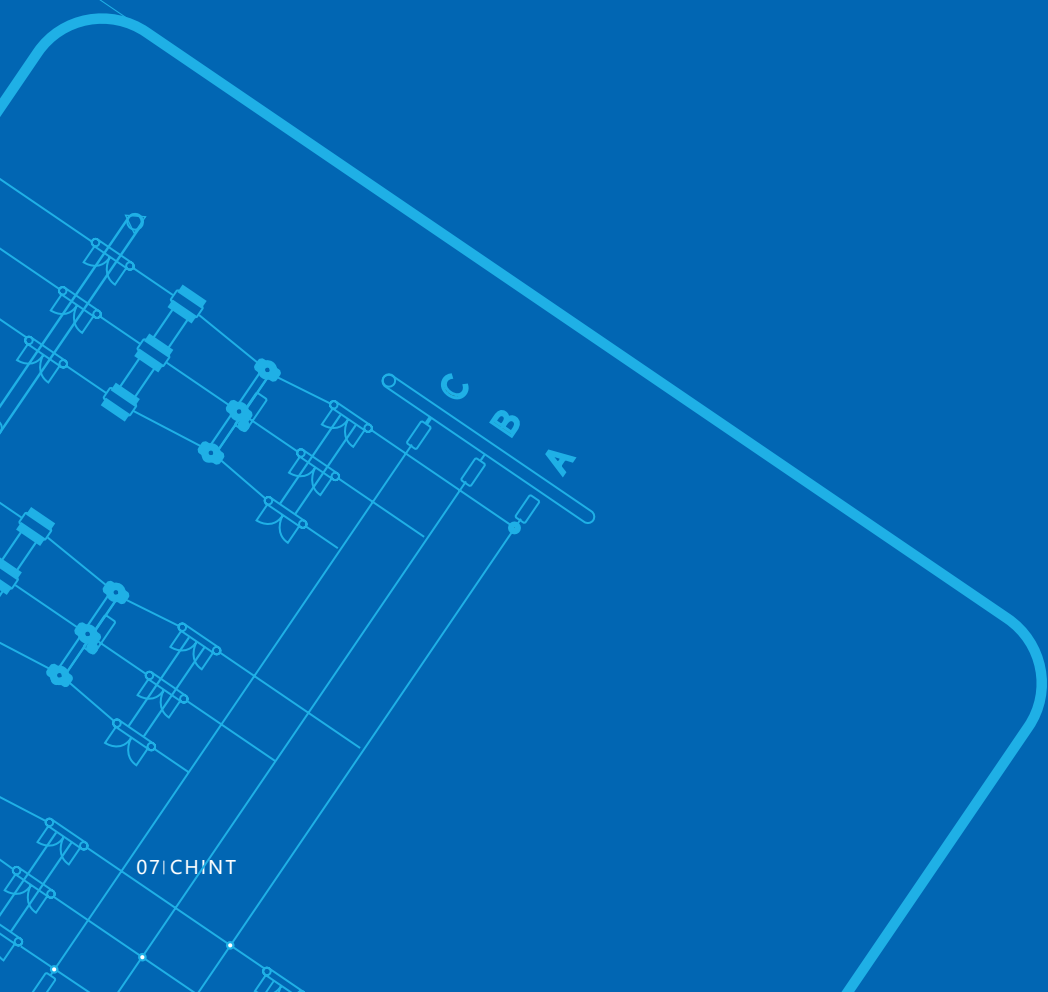
5%

At least 5% of revenue is invested in research and development



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# Gas Meter



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# CONTENT

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## 1.0 Base Meter

- 1.1 Steel-G1.6S, G2.5S, G4S
- 1.2 Aluminum-G1.6A, G2.5A
- 1.3 Aluminum-ZT-G4A
- 1.4 Pulse Interface-ZT-G1.6S, ZT-G2.5S, ZT-G4S
- 1.5 Small Size-G1.6, G2.5(Aluminum)
- 1.6 Small Size-G1.6S, G2.5S (Steel)
- 1.7 Wide Center Distance-G1.6S, G2.5S, G4S(Steel)
- 1.8 Commercial-G6S, G10S, G16S, G25S(Steel)

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## 2.0 IC Card

- 2.1 ZG1.6S-1, ZG2.5S-1, ZG4S-1

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## 3.0 Smart Meter

- 3.1 LoRa-ZG1.6S-2, ZG2.5S-2, ZG4S-2
- 3.2 IoT+NFC-ZG1.6-5, ZG2.5-5, ZG4-5
- 3.3 GPRS-ZG1.6S-5, ZG2.5S-5, ZG4S-5
- 3.4 NB-IoT-ZG1.6S-7, ZG2.5S-7, ZG4S-7

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## 4.0 SYSTEM

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## 5.0 Qualification & Certificate

1.0

## Base Meter



### 1.1 | Steel-G1.6S, G2.5S, G4S

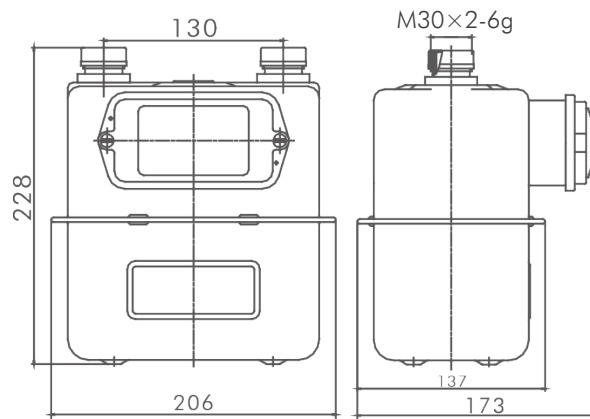
#### FUNCTION

- Wide applicable gas range
- Low pressure loss & high working pressure
- Long service life

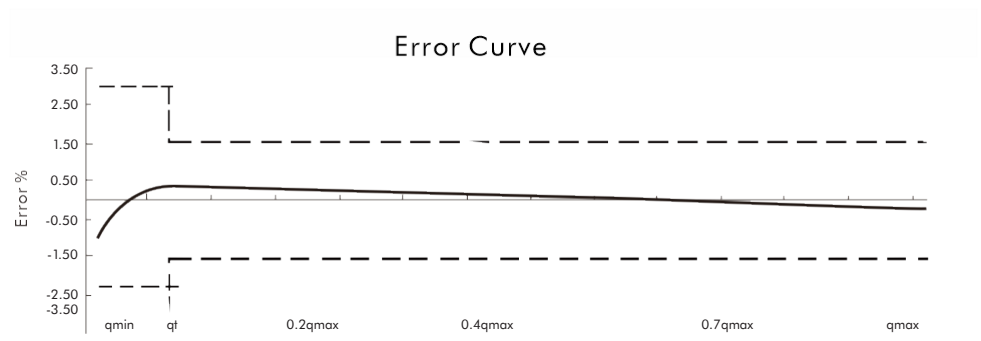
#### FEATURES



#### APPEARANCE AND INSTALLATION SIZE



Units: mm



## Base Meter

## MAIN TECHNICAL PARAMETERS

Main Index		Specification & Type	
Main index	Specification & type	G1.6	G2.5
Nominal flow-rate ( $q_n$ )	$m^3/h$	1.6	2.5
Max. flow-rate ( $q_{max}$ )	$m^3/h$	2.5	4
Min. flow-rate ( $q_{min}$ )	$m^3/h$	0.016	0.025
Operating pressure range	kPa	0.5~20	
Max. permissible error	$q_t \leq q \leq q_{max}$	$\pm 1.5\%$	$q_t \leq q \leq q_{max}$
	$q_{min} \leq q < q_t$	$\pm 3\%$	$q_{min} \leq q < q_t$
Total pressure loss	Pa	$\leq 200$	
Max. reading	$m^3$	99999.999	
Min. reading	$m^3$	0.0001	
Cyclic volume	$dm^3$	0.9	
Accuracy class		1.5 Class	
Weight	kg	1.65	
Standard		GB/T6968-2011、JJG577-2012	

# 1.0

## Base Meter



### 1.2 | Aluminum-G1.6A, G2.5A

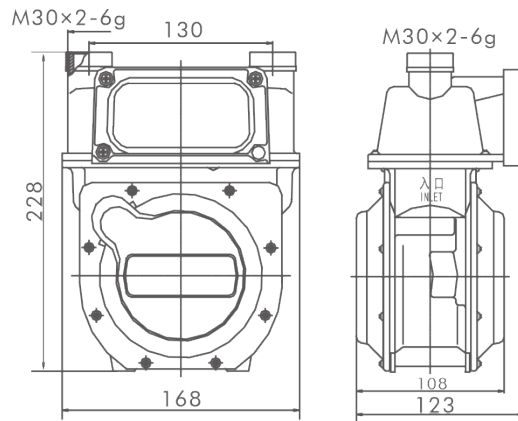
#### FUNCTION

- Anti-reverse flow (Optional)
- Strong anti-corrosion capability
- Long service life

#### FEATURES

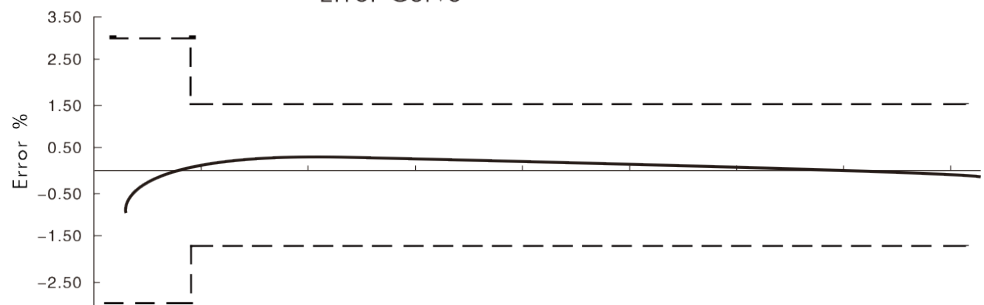


#### APPEARANCE AND INSTALLATION SIZE



Units: mm

#### Error Curve



## Base Meter

## MAIN TECHNICAL PARAMETERS

Main Index		Specification & Type	
Main index	Specification & type	G1.6	G2.5
Nominal flow-rate ( $q_n$ )	$m^3/h$	1.6	2.5
Max. flow-rate ( $q_{max}$ )	$m^3/h$	2.5	4
Min. flow-rate ( $q_{min}$ )	$m^3/h$	0.016	0.025
Operating pressure range	kPa	0.5~20	
Max. permissible error	$q_t \leq q \leq q_{max}$ $q_{min} \leq q < q_t$	$\pm 1.5\%$ $\pm 3\%$	$q_t \leq q \leq q_{max}$ $q_{min} \leq q < q_t$
Total pressure loss	Pa	$\leq 200$	
Max. reading	$m^3$	99999.999	
Min. reading	$m^3$	0.0001	
Cyclic volume	$dm^3$	0.9	
Accuracy class		1.5 Class	
Weight	kg	1.65	
Standard		GB/T6968-2011、JJG577-2012	

1.0

## Base Meter



### 1.3 | Aluminum-ZT-G4A

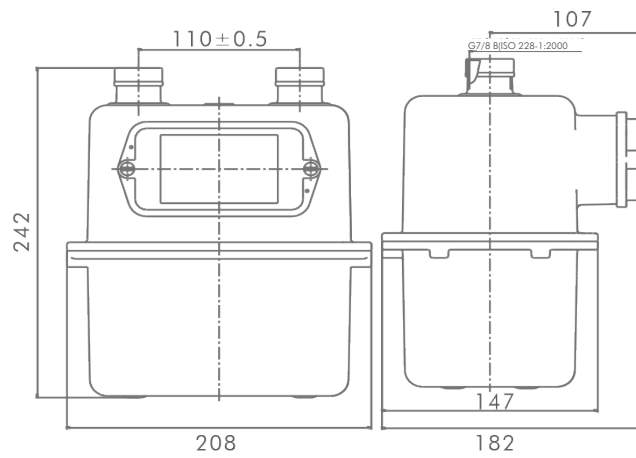
#### FUNCTION

- Accurate measurement and stable performance
- Mechanical transmission method
- Independent meter mechanism
- Anti-stealing gas

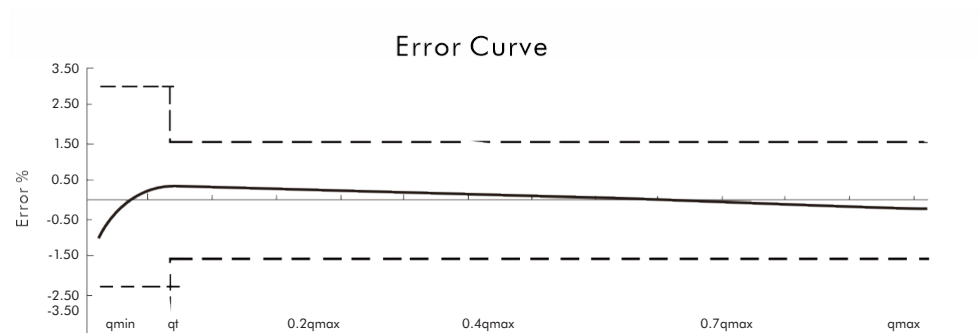
#### FEATURES



#### APPEARANCE AND INSTALLATION SIZE



Units: mm



## Base Meter

## MAIN TECHNICAL PARAMETERS

Main Index		Specification & Type
Main index	Specification & type	ZT-G4A
Nominal flow-rate ( $q_n$ )	$m^3/h$	4
Max. flow-rate ( $q_{max}$ )	$m^3/h$	6
Min. flow-rate ( $q_{min}$ )	$m^3/h$	0.04
Operating pressure range	kPa	0.5~50
Max. permissible error	$q_t \leq q \leq q_{max}$ $q_{min} \leq q < q_t$	$\pm 1.5\%$ $\pm 3\%$
Total pressure loss	Pa	$\leq 200$
Max. reading	$m^3$	99999.9998
Min. reading	$m^3$	0.0002
Cyclic volume	$dm^3$	0.2
Accuracy class		1.5
Weight	kg	2
Standard		EN 1359 & OIML R137

# 1.0

## Base Meter

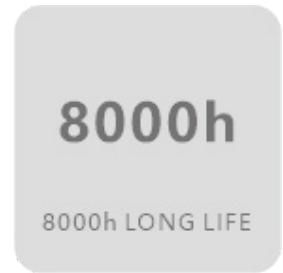


### 1.4 | Pulse Interface-ZT-G1.6S, ZT-G2.5S, ZT-G4S

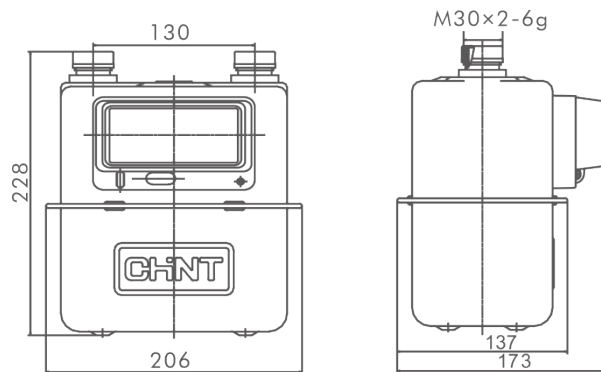
#### FUNCTION

- Supporting remote reading by Pulse output
- Measurement Accuracy
- Anti Stealing Gas
- 8000 hours Endurability

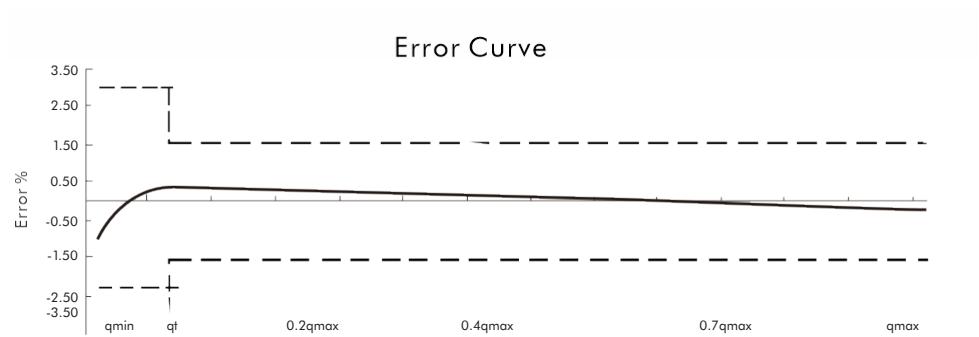
#### FEATURES



#### APPEARANCE AND INSTALLATION SIZE



Units: mm



## Base Meter

## MAIN TECHNICAL PARAMETERS

Main Index		Specification & Type		
Main index	Specification & type	ZT-G1.6S	ZT-G2.5S	ZT-G4S
Nominal flow-rate (qn)	m <sup>3</sup> /h	1.6	2.5	4
Max. flow-rate (qmax)	m <sup>3</sup> /h	2.5	4	6
Min. flow-rate (qmin)	m <sup>3</sup> /h	0.016	0.025	0.04
Operating pressure range	kPa	0.5~50		
Max. permissible error	qt ≤ q ≤ qmax qmin ≤ q < qt	±1.5%	±3%	
Total pressure loss	Pa	≤160		
Max. reading	m <sup>3</sup>	99999.999		
Min. reading	m <sup>3</sup>	0.0002		
Cyclic volume	dm <sup>3</sup>	1.2		
Weight	kg	2		
Standard		OIML R137:2006、EN1359:1998/A1:2006		
Pulse sampling frequency		<1hz		

1.0

# Base Meter



## 1.5 l Small Size-G1.6, G2.5(Aluminum)

### FUNCTION

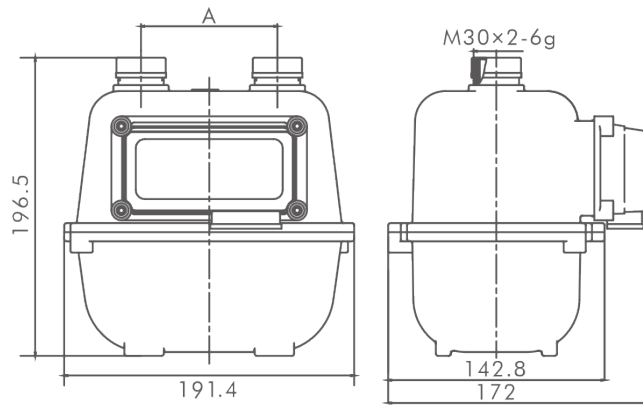
- Supporting remote reading by Pulse output
- Measurement Accuracy
- Anti Stealing Gas

### FEATURES



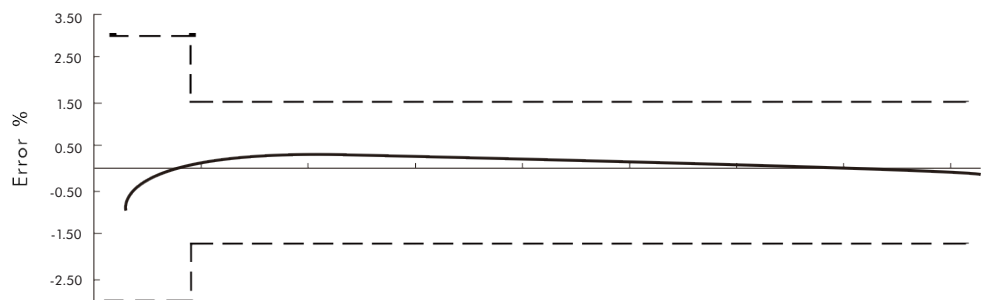
### APPEARANCE AND INSTALLATION SIZE

A	90	110	130
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Units: mm

### Error Curve



## Base Meter

## MAIN TECHNICAL PARAMETERS

Main Index		Specification & Type	
Main index	Specification & type	G1.6	G2.5
Nominal flow-rate ( $q_n$ )	$m^3/h$	1.6	2.5
Max. flow-rate ( $q_{max}$ )	$m^3/h$	2.5	4
Min. flow-rate ( $q_{min}$ )	$m^3/h$	0.016	0.025
Operating pressure range	kPa	0.5~50	
Max. permissible error	$q_t \leq q \leq q_{max}$ $q_{min} \leq q < q_t$	$\pm 1.5\%$ $\pm 3\%$	
Total pressure loss	Pa	$\leq 200$	
Max. reading	$m^3$	99999.9998	
Min. reading	$m^3$	0.0002	
Cyclic volume	$dm^3$	0.8	
Accuracy class		1.5 Class	

# 1.0

## Base Meter



### 1.6 | Small Size-G1.6S, G2.5S (Steel)

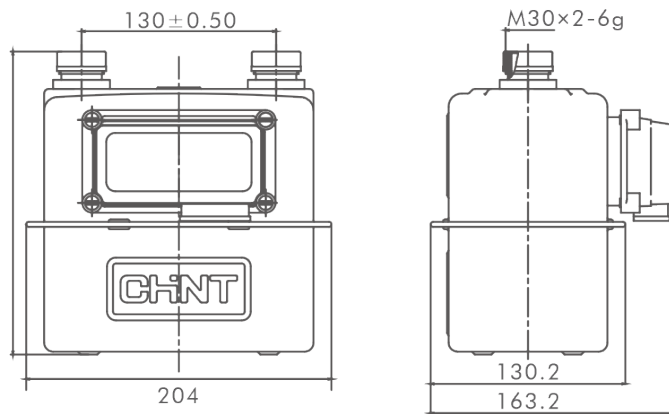
#### FUNCTION

- Supporting remote reading by Pulse output
- Measurement Accuracy
- Anti Stealing Gas

#### FEATURES

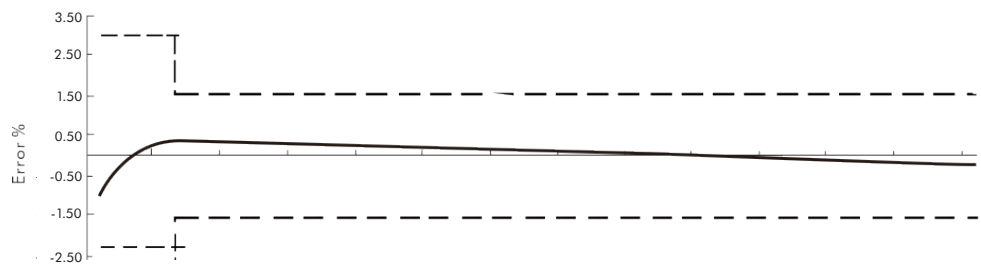


#### APPEARANCE AND INSTALLATION SIZE



Units: mm

#### Error Curve



## Base Meter

## MAIN TECHNICAL PARAMETERS

Main Index		Specification & Type	
Main index	Specification & type	G1.6	G2.5
Nominal flow-rate ( $q_n$ )	$m^3/h$	1.6	2.5
Max. flow-rate ( $q_{max}$ )	$m^3/h$	2.5	4
Min. flow-rate ( $q_{min}$ )	$m^3/h$	0.016	0.025
Operating pressure range	kPa	0.5~50	
Max. permissible error	$q_t \leq q \leq q_{max}$ $q_{min} \leq q < q_t$	$\pm 1.5\%$ $\pm 3\%$	
Total pressure loss	Pa	$\leq 200$	
Max. reading	$m^3$	99999.9998	
Min. reading	$m^3$	0.0002	
Cyclic volume	$dm^3$	0.8	
Accuracy class		1.5 Class	
Weight	kg	1.6	

1.0

## Base Meter



### 1.7 | Wide Center Distance-G1.6S, G2.5S, G4S(Steel)

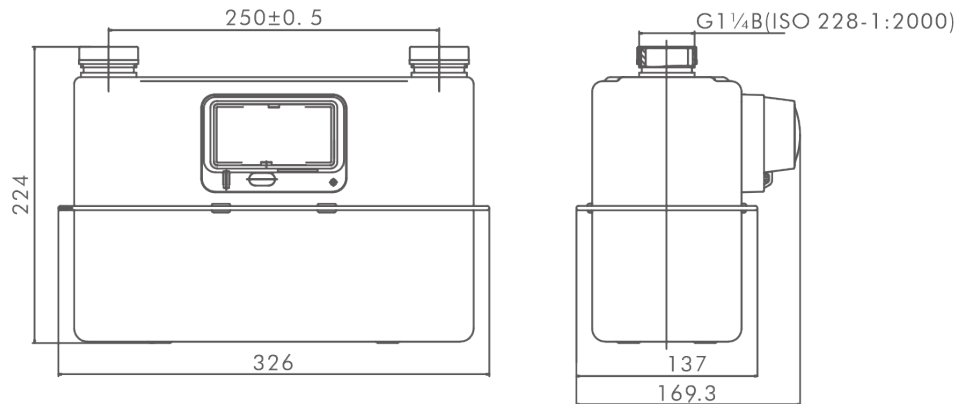
#### FUNCTION

- 250mm wide center distance
- Long service life
- Separate meter mechanism

#### FEATURES

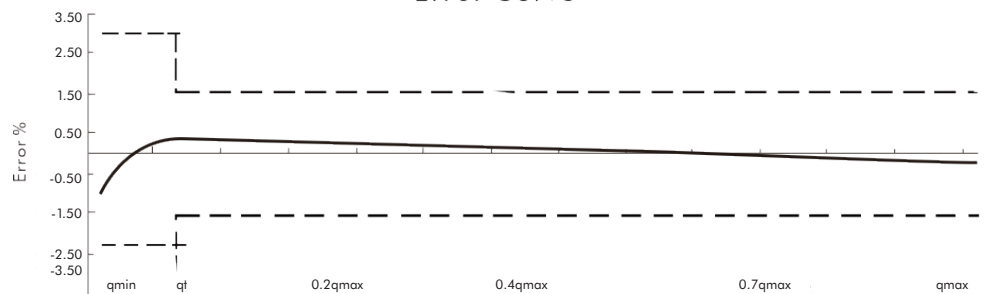


#### APPEARANCE AND INSTALLATION SIZE



Units: mm

#### Error Curve



## Base Meter

## MAIN TECHNICAL PARAMETERS

Main Index		Specification & Type		
Main index	Specification & type	ZT-G1.6S	ZT-G2.5S	ZT-G4S
Nominal flow-rate (qn)	m <sup>3</sup> /h	1.6	2.5	4
Max. flow-rate (qmax)	m <sup>3</sup> /h	2.5	4	6
Min. flow-rate (qmin)	m <sup>3</sup> /h	0.016	0.025	0.04
Operating pressure range	kPa	0.5~50		
Max. permissible error	qt ≤ q ≤ qmax	±1.5%		
	qmin ≤ q < qt	±3%		
Total pressure loss	Pa	≤200		
Max. reading	m <sup>3</sup>	99999.9998		
Min. reading	m <sup>3</sup>	0.0002		
Cyclic volume	dm <sup>3</sup>	1.2		
Accuracy class		1.5 Class		
Weight	kg	2.4		

# 1.0

## Base Meter

### 1.8 | Commercial-G6S, G10S, G16S, G25S(Steel)

#### FUNCTION

- Precise measurement, stable metrology, high sensitivity
- Good reliability, long operation life, anti-tampering ability
- Strong anti-corrosion capability

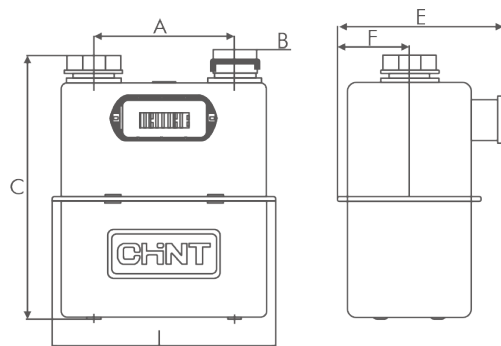
#### FEATURES



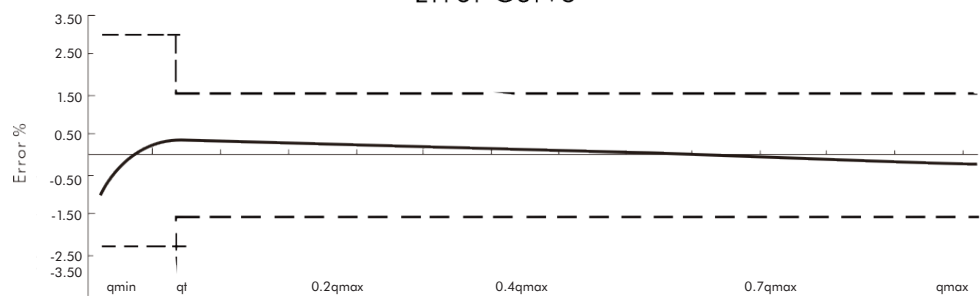
#### APPEARANCE AND INSTALLATION SIZE

Units: mm

Model	A	B	C	D	E	F
G6S	180	M45×2	249	262	191	77.5
G10S	180	G2	284	310	217	92
G16S	220	G2	333	374	246	105.5
G25S	280	M80×3	412	438	289	129.5



Error Curve



## Base Meter

## MAIN TECHNICAL PARAMETERS

Main Index		Specification & Type			
Main index	Specification & type	G6S	G10S	G16S	G25S
Nominal flow-rate ( $q_n$ )	$m^3/h$	6	10	16	25
Max. flow-rate ( $q_{max}$ )	$m^3/h$	10	16	25	40
Min. flow-rate ( $q_{min}$ )	$m^3/h$	0.016	0.10	0.16	0.25
Operating pressure range	kPa	0.5~20			
Max. permissible error	$q_t \leq q \leq q_{max}$	$\pm 1.5\%$			
	$q_{min} \leq q < q_t$	$\pm 3\%$			
Total pressure loss	Pa	$\leq 200$	$\leq 160$		
Max. reading	$m^3$	99999.999	99999.999		
Min. reading	$m^3$	0.0002	0.002		
Accuracy class		1.5 Class			
Standard		GB/T6968-2011、JJG577-2012			

## IC Card



### 2.1 | ZG1.6S-1, ZG2.5S-1, ZG4S-1

#### FUNCTION

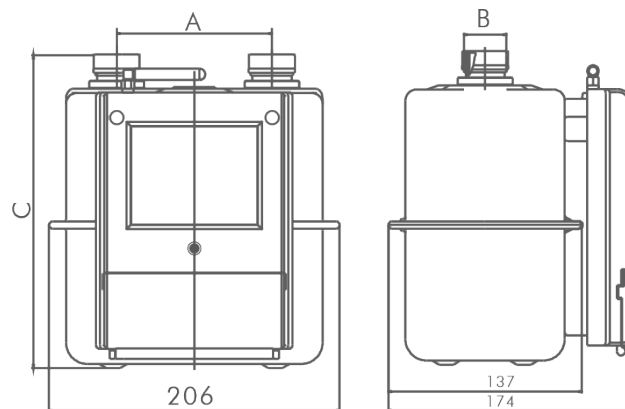
- Supporting remote meter reading
- Measurement accuracy
- Anti-stealing gas

#### FEATURES



#### APPEARANCE AND INSTALLATION SIZE

A	90±0.50	110±0.50	130±0.50
B	M30×2-6g	G <sup>3</sup> / <sub>4</sub> B	WG7/8
C		228	



Units: mm

## MAIN TECHNICAL PARAMETERS

Main Index		Specification & Type		
Main index	Specification & type	ZG1.6S-1	ZG2.5S-1	ZG4S-1
Nominal flow-rate (qn)	m <sup>3</sup> /h	1.6	2.5	4
Max. flow-rate (qmax)	m <sup>3</sup> /h	2.5	4	6
Min. flow-rate (qmin)	m <sup>3</sup> /h	0.016	0.025	0.04
Operating pressure range	kPa	0.5~50		
Max. permissible error	qt≤q≤qmax qmin≤q<qt	±1.5%	±3%	
Total pressure loss	Pa	≤250		
Max. reading	m <sup>3</sup>	99999.999		
Min. reading	m <sup>3</sup>	0.0002		
Cyclic volume	dm <sup>3</sup>	1.2		
Working voltage	V	DC6V (4pcs #5 Alkaline battery)		
Battery life		<1 year (Upload frozen data once a day)		
Pulse equivalency		0.1 or 0.01		
Static working current	μA	≤20		
Accuracy class		1.5		
Operating range limit		-20 °C ~ +50 °C		
Relative humidity		≤ 85%RH		

# 3.0

## Smart Meter



### 3.1 | LoRa-ZG1.6S-2,ZG2.5S-2, ZG4S-2

#### FUNCTION

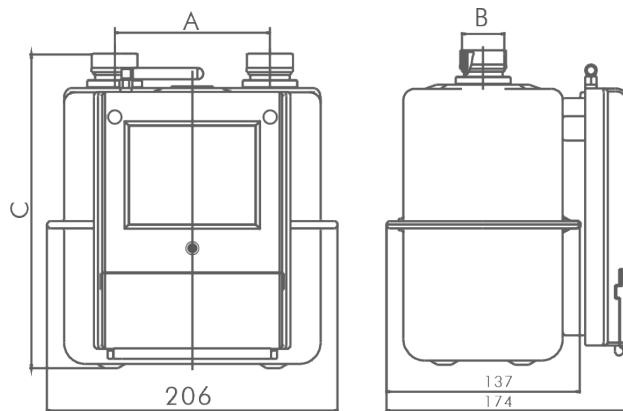
- Data remote transmission
- Connection between meter and HHU or concentrator
- Ultra-low power consumption
- Suitable for complex built environments

#### FEATURES



#### APPEARANCE AND INSTALLATION SIZE

A	90±0.50	110±0.50	130±0.50		
B	M26×1.5-6g	M30×2-6g	G¾B	G1B	G1¼B
C	228				226



Units: mm

## MAIN TECHNICAL PARAMETERS

Main Index		Specification & Type		
Main index	Specification & type	ZG1.6S-2	ZG2.5S-2	ZG4S-2
Nominal flow-rate (qn)	m <sup>3</sup> /h	1.6	2.5	4
Max. flow-rate (qmax)	m <sup>3</sup> /h	2.5	4	6
Min. flow-rate (qmin)	m <sup>3</sup> /h	0.016	0.025	0.04
Operating pressure range	kPa	0.5~50		
Max. permissible error	qt≤q≤qmax qmin≤q<qt	±1.5%	±3%	
Total pressure loss	Pa	≤250		
Max. reading	m <sup>3</sup>	99999.999		
Min. reading	m <sup>3</sup>	0.0002		
Cyclic volume	dm <sup>3</sup>	1.2		
Working voltage	V	DC6V (4pcs #5 Alkaline battery)		
Counting sampling method		Reed switch or Hall double pulse		
Pulse equivalency	m <sup>3</sup> /pulse	0.1 or 0.01		
Static working current	μA	≤20		
Carrier frequency	MHz	470~510		
Transmitting power	mW	≤50		
Communication speed	bps	9600		
Communication distance	m	Open field>3000,mInside building(30~300)m		
Working way		Half-duplex		
Receiving sensitivity	dBm	-120		
Communication mode		LoRa		

# 3.0

## Smart Meter

### 3.2 I IoT+NFC-ZG1.6-5, ZG2.5-5, ZG4-5

#### FUNCTION

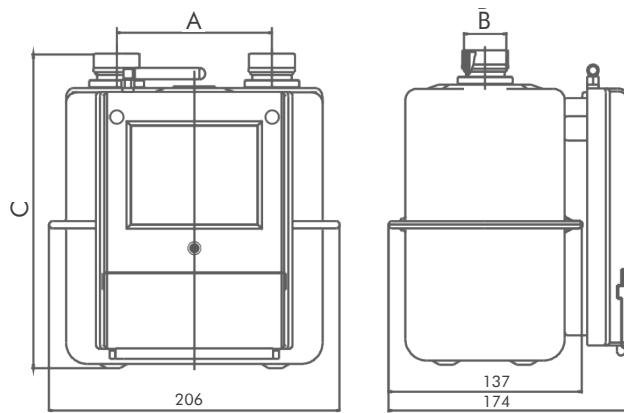
- Mature technologies
- Replaceable COMM module
- Security detection
- Self develop system
- Support integrate third party

#### FEATURES

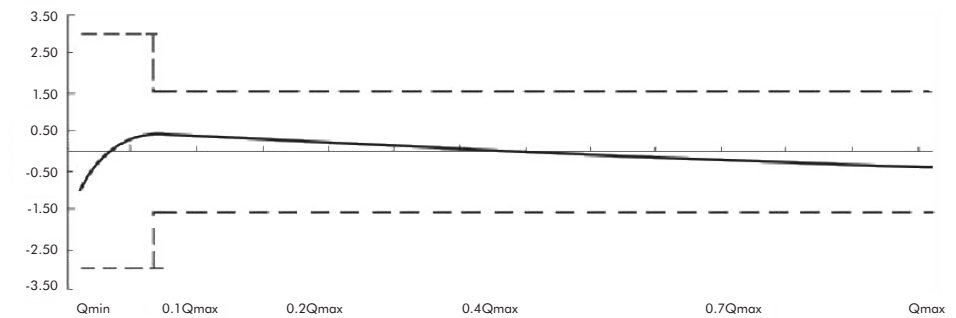


#### APPEARANCE AND INSTALLATION SIZE

- Thread:customizing
- Centre distance:130mm,110mm,90mm



Units: mm



- $Q_{min} \leq Q < Q_t$   $\pm 3\%$
- $Q_t \leq Q \leq Q_{max}$   $\pm 1.5\%$

## Smart Meter

## MAIN TECHNICAL PARAMETERS

Main Index		Specification & Type		
Main index	Specification & type	ZG1.6-5	ZG2.5-5	ZG4-5
Nominal flow-rate (qn)	m <sup>3</sup> /h	1.6	2.5	4
Max. flow-rate (qmax)	m <sup>3</sup> /h	2.5	4	6
Min. flow-rate (qmin)	m <sup>3</sup> /h	0.016	0.025	0.04
Operating pressure range	kPa	0.5~50		
Max. permissible error	qt≤q≤qmax qmin≤q<qt	±1.5%	±3%	
Total pressure loss	Pa	≤250		
Max. reading	m <sup>3</sup>	99999.999		
Min. reading	m <sup>3</sup>	0.0002		
Cyclic volume	dm <sup>3</sup>	1.2		
Working voltage	V	DC3.6V(Lithium battery)		
Clock battery voltage	V	DC3.6V(Lithium battery,optional)		
Battery life		>10 years (Upload once a day)		
Pulse equivalency		0.1 or 0.01		
Static working current	μA	<30		
Communication current	mA	<200		
Communication mode		NFC, GPRS, NB-IoT		
Protection class		IP 65		
Remote valve control		Open, shut-off		
Automatic valve control		Tampering, magnetic interference, meter cover opened, no power supply		
Alarm		over flow, low voltage of battery		
Data freezing		Depend on customer requirement		
Log		Latest 15 valve activities		
Display		8-digit LCD, icons		
Button		Assist to open valve, switch screen, trigger to communicate		
Seismic detection		Optional		

# 3.0

## Smart Meter



### 3.3 | GPRS-ZG1.6S-5, ZG2.5S-5, ZG4S-5

#### FUNCTION

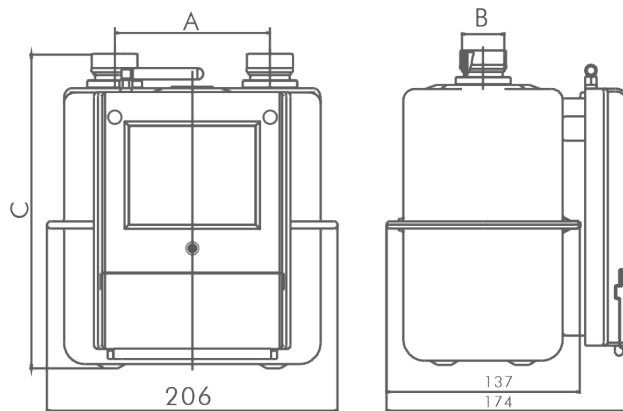
- Remote control and communication
- Real-time measurement
- Low power consumption
- Anti-magnetic interference

#### FEATURES



#### APPEARANCE AND INSTALLATION SIZE

A	90±0.50	110±0.50	130±0.50		
B	M26×1.5-6g	M30×2-6g	G <sup>3</sup> / <sub>4</sub> B	G1B	G1 <sup>1</sup> / <sub>4</sub> B
C	228				226



Units: mm

## MAIN TECHNICAL PARAMETERS

Main Index		Specification & Type		
Main index	Specification & type	ZG1.6S-5	ZG2.5S-5	ZG4S-5
Nominal flow-rate (qn)	m <sup>3</sup> /h	1.6	2.5	4
Max. flow-rate (qmax)	m <sup>3</sup> /h	2.5	4	6
Min. flow-rate (qmin)	m <sup>3</sup> /h	0.016	0.025	0.04
Operating pressure range	kPa	0.5~50		
Max. permissible error	qt≤q≤qmax qmin≤q<qt	±1.5%	±3%	
Total pressure loss	Pa	≤250		
Max. reading	m <sup>3</sup>	99999.999		
Min. reading	m <sup>3</sup>	0.0002		
Cyclic volume	dm <sup>3</sup>	1.2		
Working voltage	V	DC6V (4pcs #5 Alkaline battery)		
Battery life		<1 year(Upload frozen data once a day)		
Pulse equivalency		0.1 or 0.01		
Static working current	μA	<30		
GPRS communication current	mA	<200		
Communication mode		GPRS		
Communication frequency band		GSM850/EGSM900/DCS1800/PCS1900		
Transmitting power		GSM850 (2W), EGSM900 (2W), DCS1800(1W), PCS1900 (1W)		
Receiving sensitivity	dBm	-108		
GPRS Data transfer rate	kbps	85.6		
Communication distance	m	GSM Network full coverage		

# 3.0

## Smart Meter



### 3.4 | NB-IoT-ZG1.6S-7, ZG2.5S-7, ZG4S-7

#### FUNCTION

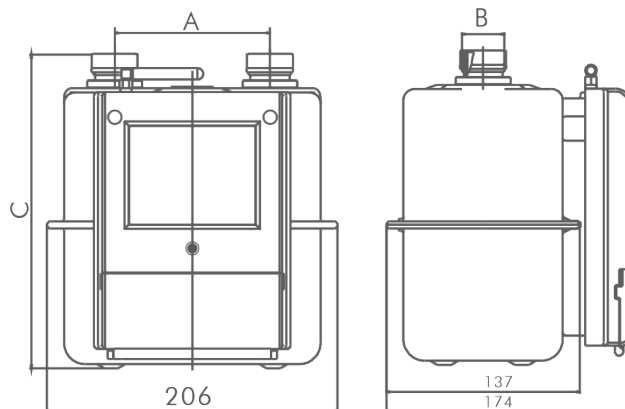
- Remote valve control and price adjustment
- Unlimited communication distance
- Active reporting of abnormal information

#### FEATURES



#### APPEARANCE AND INSTALLATION SIZE

A	90±0.50	110±0.50	130±0.50		
B	M26×1.5-6g	M30×2-6g	G¾B	G1B	G1¼B
C	228				226

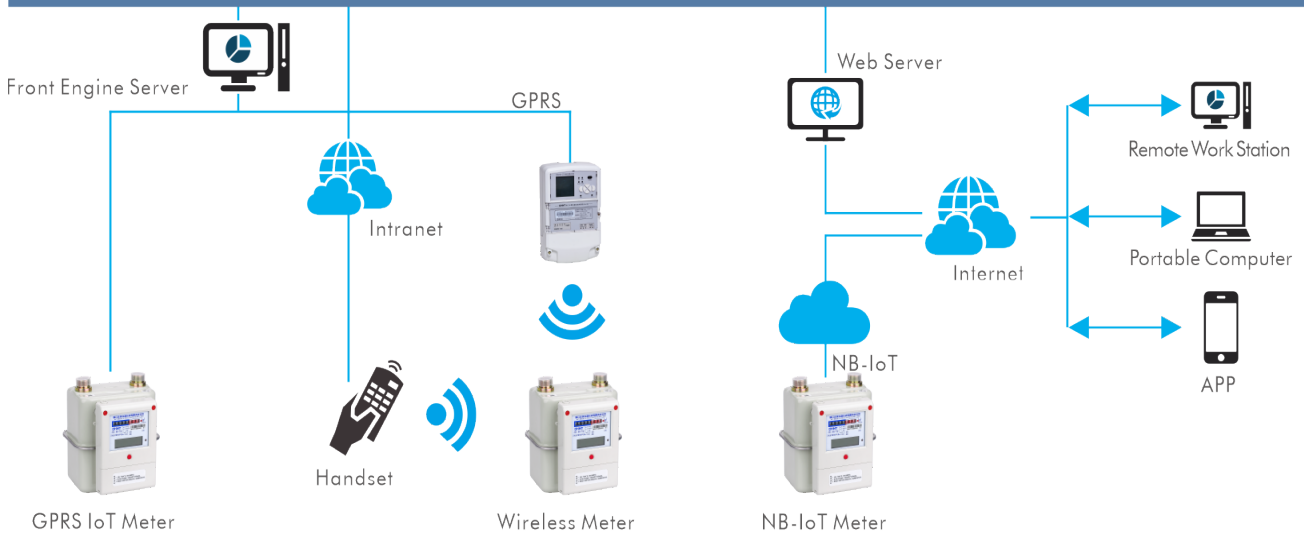


Units: mm

## MAIN TECHNICAL PARAMETERS

Main Index		Specification & Type		
Main index	Specification & type	ZG1.6S-7	ZG2.5S-7	ZG4S-7
Nominal flow-rate (qn)	m <sup>3</sup> /h	1.6	2.5	4
Max. flow-rate (qmax)	m <sup>3</sup> /h	2.5	4	6
Min. flow-rate (qmin)	m <sup>3</sup> /h	0.016	0.025	0.04
Operating pressure range	kPa	0.5~50		
Max. permissible error	qt≤q≤qmax qmin≤q<qt	±1.5%	±3%	
Total pressure loss	Pa	≤250		
Max. reading	m <sup>3</sup>	99999.999		
Min. reading	m <sup>3</sup>	0.0002		
Cyclic volume	dm <sup>3</sup>	1.2		
Working voltage	V	DC6V (4pcs #5 Alkaline battery)		
Clock battery voltage	V	DC3.6V (Lithium battery: ER14250)		
Battery life		<1 year (Upload frozen data once a day)		
Pulse equivalency		0.1 or 0.01		
Static working current	μA	<30		
Communication current	mA	<200		
Communication mode		NB-IoT		
Protection class		IP 65		

## CHINT GAS CLOUD MANAGEMENT PLATFORM



## SYSTEM FEATURE

- In line with the development of the gas industry and the needs of the market, Chint has overall gas solution that can solve customers' problems from three aspects: smart remote meter, data transmission and daily business management. The solution includes the following.
- Provide various types of gas meters for different scenarios, including residential users and industrial and commercial users. The system supports integrated management of various types of gas meters, including wireless remote meter, GPRS IoT meter, NB-IoT meter. It also realizes remote meter reading and other control operations.
- The management system supports both prepaid and postpaid mode. The gas used can be displayed by price or volume. Customers can use mobile phone to do the billing inquiry and recharge payment.
- The system supports multi-level pricing which can implement multiple sets of pricing according to user types and different areas, and supports the multi-level gas volume according to the number of households.
- The system provides real-time monitoring, status query, and abnormal alarm functions, enabling users to keep abreast of system operation and provides intuitive GIS navigation.
- The system provides data analysis function and statistical reports, and provides web api interfaces to facilitate integration with third-party systems.

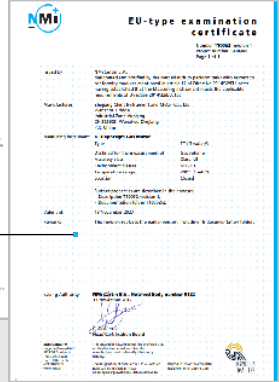
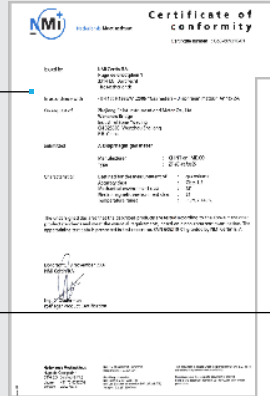
# 5.0

## Qualification & Certificate

### CERTIFICATION

Chint got the needed certification which for access to overseas market

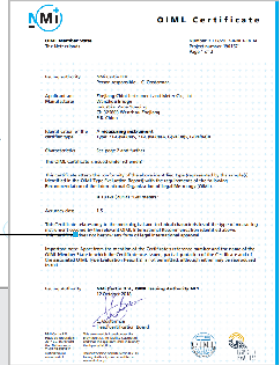
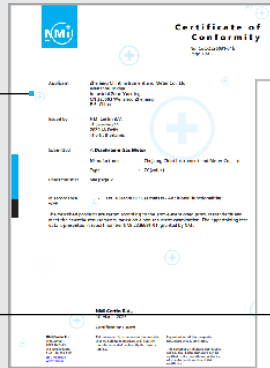
01



01 EN: 1359

02 MID (B)

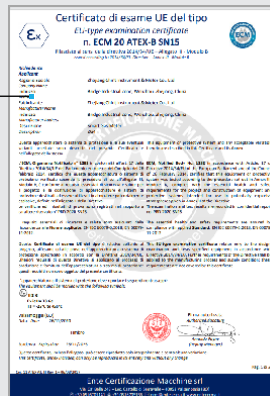
01



01 EN: 16314

02 OIMLR 137

01



01 ATEX

Durability 8000hours Explosion Protection Certificate Zone 2: II 3 G Ex ic IIA T3 Gc

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A CHINT COMPANY

