

# WALL-MOUNTED ULTRASONIC FLOW METER

Non-invasive Measurement, Easy To Install

High  
Accuracy  
Measurement  
 $\pm 1\%$







New High-tech  
Enterprise



ISO



CE

## APPLICATIONS

Widely used for water supply, non conductive liquid such as the distilled water, food oil & light oil, boiler fuel oil engine for diesel measurement, and air conditioner system to measure the flow & heat, food and beverage, pharmaceutical, ballast water, fuel consumption and other processes on-board ships, etc.





# PRODUCT FEATURES

01

THE FIRST

**High Precise Bi-directional Measurement**  
Highly Dynamic Flow Measurement

Max Up To

**32** m/s

Small  
size

Wide  
flow  
range



# 02

THE SECOND

## Highly Cost Effective

- Simplified installation
- Virtually maintenance free
- No process shut-downs
- Cost advantage over magnetic flow meter



Nominal Pipe Diameters

**15** mm up to **6000** mm



# 03

THE THIRD

## Relizable Heat Measurement

- Clamp on type and insert type transducers are optional
- Energy unit :Giga joule,Kilocalorie,Kwh,BTU are optional



Water Supply Pipe



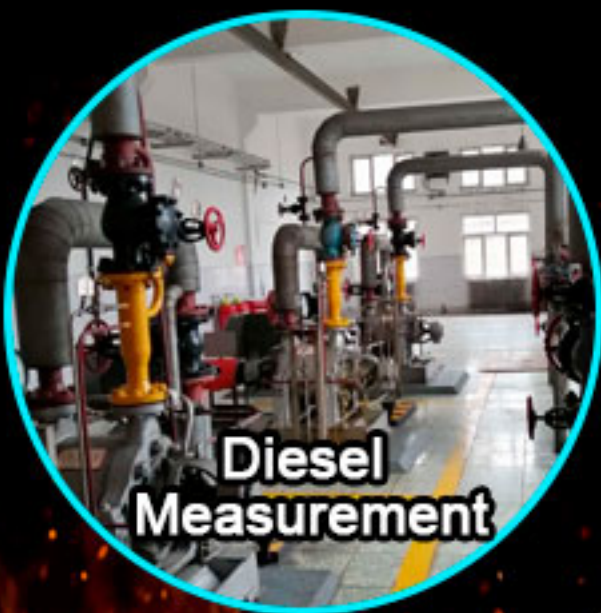
Return Pipe



04

THE FOURTH

**Hazardous Area Approved**  
suitable for use in explosive areas



**Exd IIBT5**





# 05

THE FIFTH

## LCD Display, Easy To Read

Backlit LCD display instantaneous flow and positive total flow, negative total flow, net total flow, flow velocity and etc.



**Flow unit** m3, Liter, US gallon, UK gallon, etc.

**Language** English(Standard), Italian&Turkish(optional)

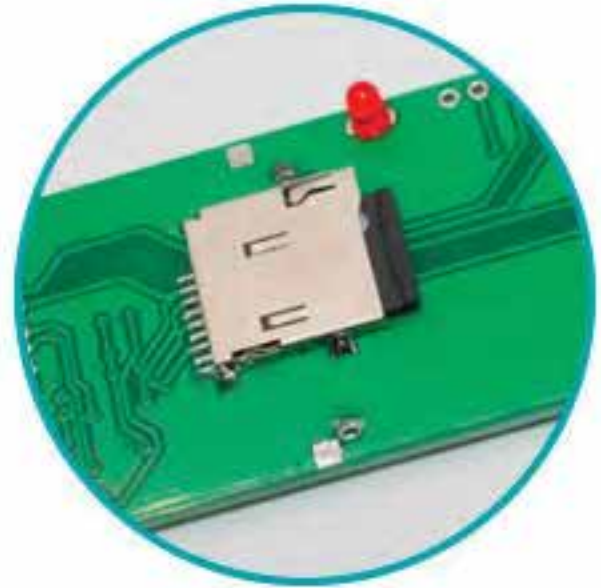


07

THE SEVENTH

## SD Card Optional

Store time and date, instant flow, total flow and signal strength etc.





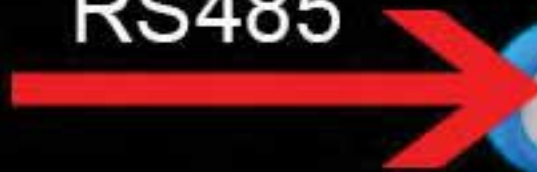
08

THE EIGHTH

# Relizable GPRS Function



RS485
















## SPECIFICATIONS

Items	Specifications
Accuracy	±1% of reading at rates >0.2 mps
Repeatability	0.2%
Principle	Transmit time
Velocity	±32m/s
Pipe Size	DN15mm-DN6000mm
Display	LCD with backlight, display accumulated flow/heat, instantaneous flow/heat, velocity, time etc.
Signal Output	1 way 4-20mA output
	1 way OCT pulse output
	1 way relay output
Signal Input	3 way 4-20mA input achieve to heat measurement by connecting PT100 platinum resistor
Other Functions	Automatically record the positive,negative,net totalizer flow rate and heat. Automatically record the time of power-on/off and flow rate of the last 30 times.Replenish by hand or read the datas through Modbus communication protocol.
Pipe Material	Carbon Steel, stainless steel, cast iron, cement pipe, copper, PVC, aluminum, FRP etc. Liner is allowed
Straight Pipe Section	Upstram: 10D; Downsteam:5D; From the pump:30D (D means outer diameter)
Liquid Types	Water, sea water, industrial sewage, acid & alkali liquid, alcohol, beer, all kinds of oils which can transmit ultrasonic single uniform liquid
Liquid Temperature	Standard: -30°C ~ 90°C ,High-temperature:-30°C ~ 160°C
Liquid Turbidity	Less than 10000ppm, with a little bubble
Flow Direction	Bi-directional measuring, net flow/heat measuring
Environment Temperature	Main Unit: -30°C ~ 80°C
	Transducer: -40°C ~ 110°C, Temperature transducer: select on enquiry
Environment Humidity	Main Unit: 85% RH
	Transducer: standard is IP65, IP68(optional)
Cable	Twisted Pair Line, standard length of 5m, can be extended to 500m (not recommended); Contact the manufacturer for longer cable requirement. RS-485 interface, transmission distance up to 1000m
Power Supply	AC220V and DC24V
Power Consumption	Less than 1.5W
Communication	MODBUS RTU RS485







# ULTRASONIC FLOWMETER SELECTION

## NO.1 Transducer Selection

Type	Picture	Specification	Measuring range	Temperature range
Clamp on type		Small-size	DN15mm~DN100mm	-30°C~90°C
		Middle-size	DN50mm~DN700mm	-30°C~90°C
		Large-size	DN300mm~DN6000mm	-30°C~90°C
High temperature clamp on type		Small-size	DN15mm~DN100mm	-30°C~160°C
		Middle-size	DN50mm~DN700mm	-30°C~160°C
		Large-size	DN300mm~DN6000mm	-30°C~160°C
Insert type		standard length type Wall thickness ≤20mm	DN50mm~DN6000mm	-30°C~160°C
		Extra-length type Wall thickness ≤70mm	DN50mm~DN6000mm	-30°C~160°C
		Parallel type used for narrow installation space	DN80mm~DN6000mm	-30°C~160°C
Inline type		π type inline	DN15mm~DN32mm	-30°C~160°C
		Flange type	DN40mm~DN1000mm	-30°C~160°C

### Temperature Sensor Model

PT100	Picture	Accuracy	Cut off water	Measuring range	Temperature
clamp on		±1%	No	DN50mm~DN6000mm	-40°C~160°C
Insertion sensor		±1%	Yes	DN50mm~DN6000mm	-40°C~160°C
Insertion type installation with pressure		±1%	No	DN50mm~DN6000mm	-40°C~160°C
Insertion type for small pipe diameter		±1%	Yes	DN15mm~DN50mm	-40°C~160°C



# NO.2 Installation Selection

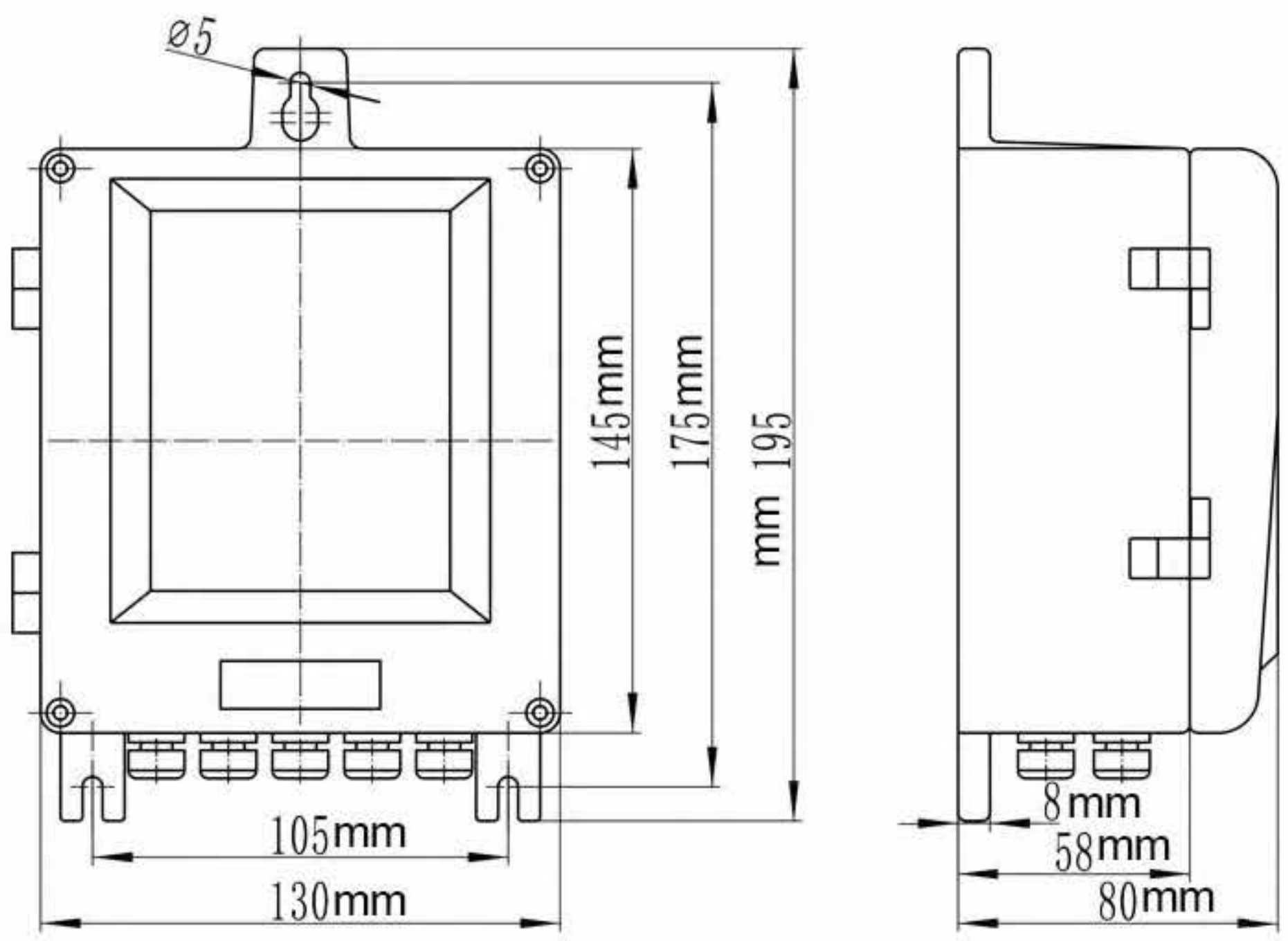


Clamp on installation      Insert installation      Inline type installation      Bracket sensor installation



- 1 Bracket clamp sensor with clear scale ,accurate installation assured and more convenient
- 2 If pipe material is fiberglass or cement , need select insertion transducer

# NO.3 Size Chart





# NO.4 Compatible With Many Material Pipes



Carbon steel pipe



Galvanized pipe



Stainless steel pipe



FRP pipe



Copper pipe

Aluminum, Cement Pipe and Other Uniform Pipeline, Liner is Allowable.

## MORE PRODUCTS

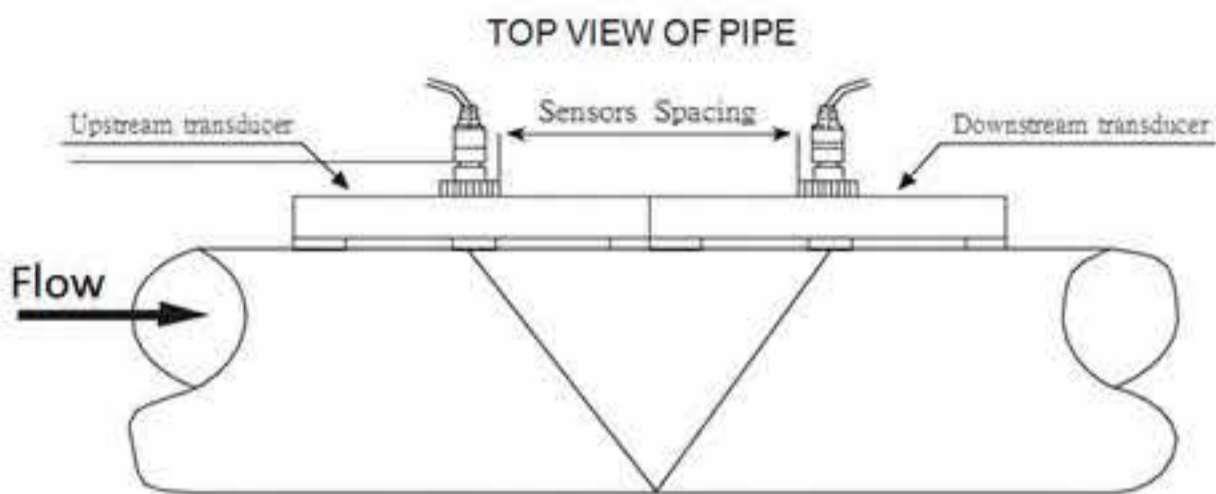




# TRANSDUCERS INSTALLATION

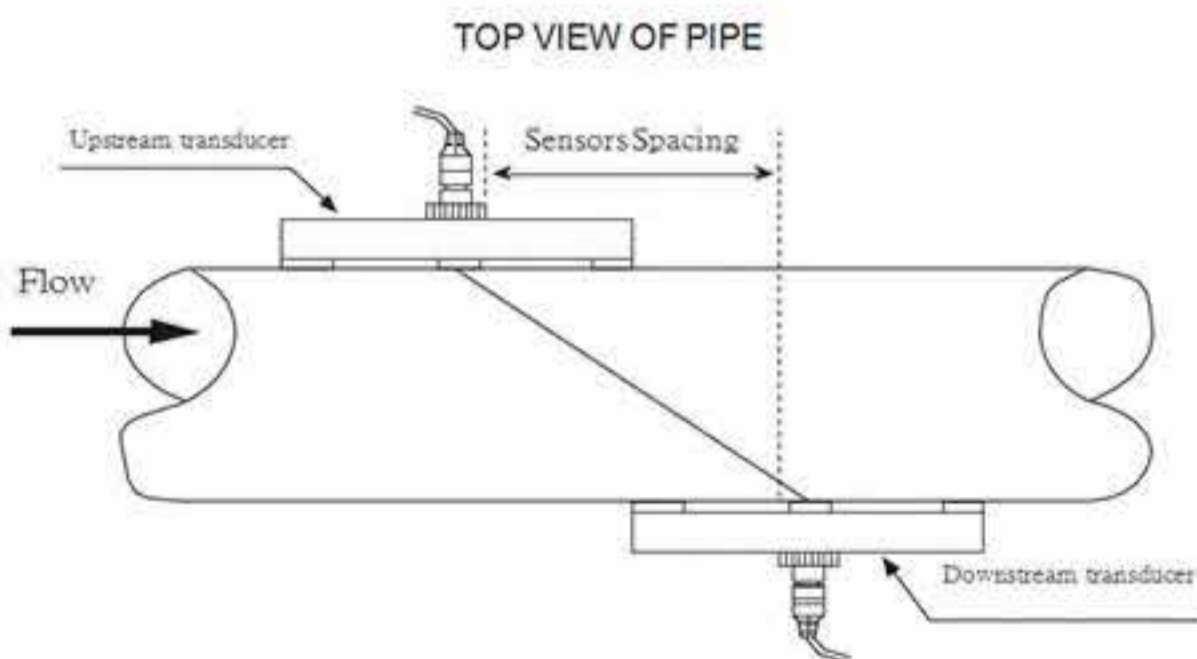
## 1. V-method Installation

V-method installation is the most widely used mode for daily measurement with pipe inner diameters ranging from 15 mm to 200 mm. It is also called reflective mode.



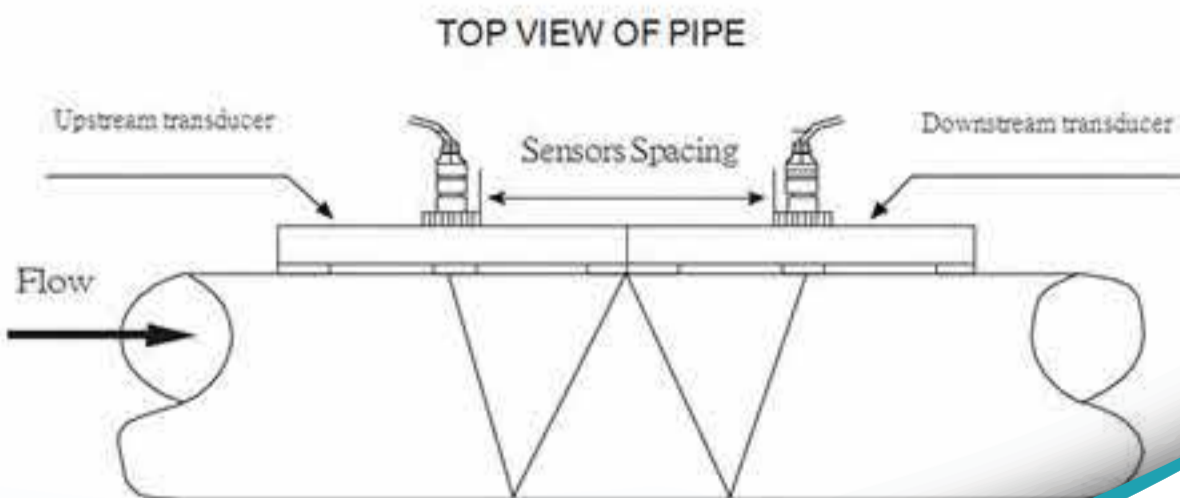
## 2. Z-method Installation

Z-method is commonly used when the pipe diameter is between 300mm and 500mm.



## 3. W-method Installation

W-method is usually used on plastic pipes with a diameter from 15mm to 100mm.





# CALIBRATION



**DN65-DN300 Standard Meter Liquid Flow Meter  
Calibration Device**



# CERTIFICATE



Certificate – Сертификат – 證明書 – Certificat – 증명서 – شهادة

**Certificate of Compliance**

No. 11130811.XP110235

**ECM**

**Certificate's Holder:** Kaileng Philemon Instrument Co., Ltd.  
No. 1, Wogbail Road, Huansong Industrial Zone, Kaileng City, Henan Province, China

**Certification ECM Mark:**

**Product Model(s):** Wall mount type PUFM-W-S, PUFM-W-M, PUFM-W-L

**Verification to:** Standard: EN 61010-1:2010, IEC 61010-1:2013  
related to CE Directive 2014/35/EU (Low Voltage) 2014/30/EU (Electromagnetic Compatibility)

**Notes:** The product(s) has been verified on a laboratory basis. The product(s) holder is responsible for the maintenance of the Certification that of ECM in reference to the above listed requirements. The above can be subject to the product(s) conformity to the EMC regulation subject to the request can be found at www.ecmcert.com.

**Shanghai Inger Certification Assessment Co., Ltd.**  
Date of Issue: 11 September 2015  
Chief Manager: Sun Yuhuan

**MANAGEMENT SYSTEM CERTIFICATE**

Certificate No.: 117 18 QJ 0323-06 R1M

This is to certify the quality management systems of

**JIANGSU QINGTIAN WEIYE FLOW METER CO., LTD**

Credit: 4102127779967241

NO. 1 WANGJIANG ROAD, HUANGLONG INDUSTRIAL PARK IN KAILENG CITY, HENAN

assessed and certified as meeting the requirements of ISO 9001-2015 and ISO 9001:2015

of approval

Production and Sales Service of Flow Meters within

certification: 12 Jun. 2015  
validity: 13 Jun. 2018  
Date: 11 Jun. 2015

**Shanghai Inger Certification Assessment Co., Ltd.**  
Certification and Accreditation Association of CNAS (CNAS 020117)  
Tel: 86 (0) 21 92511821/1319195  
Web: www.inger.cn  
Add: Room 1011 Huabing Minsheng, 288W West Zhongshan Rd., Xupu District, Shanghai, China, 200235



# PACKAGE AND DELIVERY





# FIVE-STAR PRAISE



Wall mounted ultrasonic flowmeter



Good Service



FLOW METER



Q&T is a very professional supplier, i really enjoy the communicating and cooperation with them.



Portable ultrasonic transit-time liquid flow meter pass...



good quality , easy to communicate very happy purchase experience.



handhold portable clamp on ultrasonic flow meter



Good quality products,friendly communication,quickly response,we are very satisfied with it.



handhold portable clamp on ultrasonic flow meter



Good quality products,friendly communication,quickly response,we are very satisfied with it.

**Buyer Feedback**



## QUESTION AND ANSWER

**Q** Do you provide samples ?

A: Yes, we have materials in stock that can be sure to get the samples as soon as possible.

**Q** How about the quality of the managements?

A: We have a complete quality control system , all of our products will be fully inspection by QC departments before shipping to you . We have the certification of ISO,CE we could send the certification test of our company to you at any time.

**Q** What is your terms of payment ?

A: We could accept T/T, Paypal, Money gram ,West union, L/C ,etc.

**Q** What is the warranty for your product ?

A: Warranty: 2 years, Lifetime maintenance service

**Q** what's advantages of your company ?

A: We are industry and trade integrative company ,Support production visualization service to assist you know product progress in real time. support with the OEM and ODM service without extra charge .