

Fundada es uno de los distribuidores de fabricantes de medidores de flujo / nivel de primer calidad. A través de un esfuerzo continuo y un fuerte énfasis en la adquisición de talento, investigación y desarrollo

Hemos construido y equipado con dispositivos de calibración de medidor de flujo líquido de medidor gravimétrico y estándar que miden de DN3 a DN2200; Dispositivos de calibración del medidor de flujo de gas sonic Nozzle que miden de DN15 a DN300.

Nuestro objetivo es proporcionar mediciones precisas y confiables de los parámetros del proceso con el menor costo general de propiedad, lo que conduce a una mejor calidad del proceso y un menor consumo de energía..





Electromagnetic Flow Meter



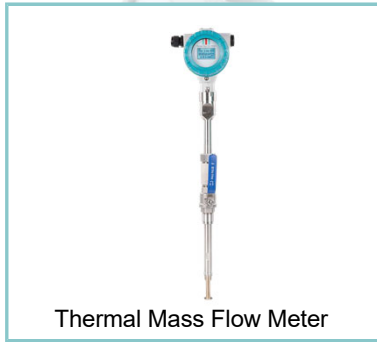
Ultrasonic Flow Meter



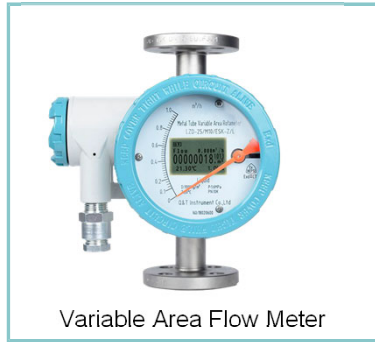
Vortex Flow Meter



Turbine Flow Meter



Thermal Mass Flow Meter



Variable Area Flow Meter



Gas Turbine Flow Meter



Precession Vortex Flow Meter



Oval Gear Flow Meter



Coriolis Mass Flow Meter



Ultrasonic Level Meter



Radar Level Meter



# Electromagnetic Flow Meter

## Description

Electromagnetic flowmeter consists of sensors and converters in two parts. The product is based on Faraday's law of electromagnetic induction, used to measure the conductance greater than  $5 \mu\text{S/cm}$  volume of conductive liquid flow, In addition to measuring the general volume of conductive liquid flow, but also can be used to measure strong acid, alkali and other strong corrosive liquids and mud, pulp, pulp and other liquid-solid two-phase suspension of uniform volume flow.

## Applications

- Metallurgical industry, cooling water for continuous steel casting, continuous steel rolling, and steel-making electric furnaces;
- Water supply and drainage in water plants.
- Paper industry, slurry type used in grinding pulp, water, acid, and alkali.
- Coal industry, measuring coal washing and pipeline hydraulic conveying coal slurry.
- Food and beverage industries, tri-clamp and thread types are used to measure beer and beverage.
- Chemical and petrochemical industries, such as acids and alkalis etc

## Features

- ◆ No moving parts,no pressure loss.
- ◆ Self-diagnosis,empty pipe alarm, exciting alarm. high and low flow alarm
- ◆ Infrared telecontrol keyboard
- ◆ Recording time when power off, record power broken time automatically.
- ◆ Dual frequency excitation and stable zero point.
- ◆ Precision coil winding technology,makes magnetic field more uniform.
- ◆ Built-in reference electrodes,no need to connect ground ring
- ◆ Measure forward and reverse direction flows
- ◆ High accuracy:  $\pm 0.5\%$  of reading,  $\pm 0.2\%$  optional,velocity  $>0.3 \text{ m/s}$ .

## Speciations

- Size : DN3-DN3000mm (1/8" ~ 120")
- Accuracy :  $\pm 0.5\%$  of reading,  
 $\pm 0.2\%$  optional,velocity  $>0.3 \text{ m/s}$
- Conductivity : Normal liquid  $>5 \mu\text{S/cm}$
- Protection Grade : IP65, IP68 optional
- Electrode : SS316L, Hastelloy C, Hastelloy B, Titanium,Tantalum, Platinoidiridium
- Power Supply : AC85~250V, DC20V~36V
- Power Consumption :  $<20\text{W}$
- Signal Output : 4~20 mA,pulse
- Communication : RS485 Modbus,Hart, Profitbus
- Display : LC Display,128X128mm,  
Three lines, 4 buttons
- Ambient Temperature :  $-20^{\circ}\text{C}\sim 60^{\circ}\text{C}$
- Liner Material : PTFE ( $-20^{\circ}\text{C}\sim 120^{\circ}\text{C}$ , DN15-DN1600)  
FEP ( $-20^{\circ}\text{C}\sim 120^{\circ}\text{C}$ ,DN25-DN1800)  
PFA ( $-20^{\circ}\text{C}\sim 120^{\circ}\text{C}$ ,DN3-DN800)  
PU ( $-10^{\circ}\text{C}\sim 60^{\circ}\text{C}$ ,DN40-DN1600)  
CR ( $-10^{\circ}\text{C}\sim 80^{\circ}\text{C}$ ,DN40-DN3000)  
FLS ( $-10^{\circ}\text{C}\sim 200^{\circ}\text{C}$ ,DN40-DN3000)
- Velocity : 0.1 m/s ~ 15 m/s
- Nominal Pressure : 4.0 MPa (DN3-DN150)  
1.6 MPa (DN200-DN600)  
1.0 MPa (DN700-DN1000)  
0.6 MPa (DN1200-DN3000)
- Frequency Output : 1~5000 Hz
- Language : English, Italian, Spanish
- Flange Standard : EN1092-1 PN10,PN16,PN25,PN40  
ANSI BS16.5 Class 150,300,600  
JIS2220 10K,20K,40 AS2129  
Table D,Table E  
AS4087 PN16,PN21,PN35
- Exciting Current : 125mA, 187mA, 250mA, 500mA
- Exciting Frequency : 3.12Hz, 4.16Hz, 6.25Hz 12.5Hz, 25Hz, 30Hz
- Body Material : Carbon Steel (standard)  
Stainless Steel 304 (optional)  
Stainless Steel 316 (optional)
- Certificates : CE-EMC, CE-LVD, ATEX

## Electromagnetic Flow Meter



- Product : Flanged connection Magnetic Flow Meter
- Process connection : Flange
- Caliber size : DN3-DN3000
- Structure : compact, remote
- Power supply : 8~36 VDC, 85~265 VAC, 3.6 V lithium
- Working pressure : 1.0 ~ 6.3 MPa
- Accuracy : ±0.5% std, ±0.2% optional
- Liner : PTFE, PFA, FEP, PU, CR, FLS
- Working temperature : -20~200℃



- Product : Battery-powered Magnetic Flow Meter
- Process connection : Flange, tri-clamp, thread, wafer, insertion
- Caliber size : DN10-DN2000
- Structure : compact, remote
- Power supply : 3.6 V lithium, 3.6 V + 24 VDC
- Working pressure : 1.0 ~ 6.3 MPa
- Accuracy : ±0.5%
- Liner : PTFE, PFA, FEP, PU, CR, FLS
- Signal Output : 4~20 mA, Pulse, RS485, GPRS, Hart



- Product : Tri-clam / Sanitary Magnetic Flow Meter
- Process connection : Tri-clamp
- Caliber size : DN15-DN200
- Structure : compact, remote
- Power supply : 8~36 VDC, 85~265 VAC, 3.6 V lithium
- Working pressure : 1.6 MPa
- Accuracy : ±0.5% std, ±0.2% optional
- Liner : PFA
- Working temperature : -20~120℃



- Product : Insertion Magnetic Flow Meter
- Process connection : Insertion G2"thread ball valve  
Insertion 2" flange ball valve
- Caliber size : DN100-DN300
- Structure : compact, remote
- Power supply : 8~36 VDC, 85~265 VAC, 3.6 V lithium
- Working pressure : 1.6 MPa
- Probe : ABS
- Accuracy : ±1.5%
- Working temperature : -20~80℃



- Product : GPRS / GSM Magnetic Flow Meter
- Process connection : Flange, tri-clamp, thread, wafer, insertion
- Caliber size : DN3-DN3000
- Structure : compact, remote
- Power supply : 8~36 VDC, 85~265 VAC
- Working pressure : 1.0 ~ 6.3 MPa
- Accuracy : ±0.5% std, ±0.2% optional
- Liner : PTFE, PFA, FEP, PU, CR, FLS
- Communication : GPRS



- Product : Reduced Bore Magnetic Flow Meter
- Special function : No need straight pipe, Increase flow rate
- Caliber size : flange DN50-DN300
- Structure : compact, remote
- Power supply : 8~36 VDC, 85~265 VAC, 3.6 V lithium
- Working pressure : 1.0 ~ 6.3 MPa
- Accuracy : ±0.5% std, ±0.2% optional
- Liner : Neoprene

# Electromagnetic Flow Meter



- Product : Thread Magnetic Flow Meter
- Process connection : NPT / BSP, Male / Female
- Caliber size : DN15-DN200
- Structure : compact, remote
- Power supply : 8~36 VDC, 85~265 VAC, 3.6 V lithium
- Working pressure : 1.6 Mpa
- Accuracy :  $\pm 0.5\%$  std,  $\pm 0.2\%$  optional
- Liner : PFA
- Working temperature :  $-20\sim 120^{\circ}\text{C}$



- Product : Partially-filled Magnetic Flow Meter
- Process connection : Flange
- Caliber size : DN200-DN3000
- Structure : Remote
- Power supply : 8~36 VDC, 85~265 VAC
- Working pressure : 1.0 ~ 6.3 MPa
- Accuracy :  $\pm 2.0\%$
- Liner : PTFE, Neoprene
- Working temperature :  $-20\sim 80^{\circ}\text{C}$



- Product : Slurry Magnetic Flow Meter, slurry <55%
- Process connection : Flange
- Caliber size : DN15-DN2000
- Structure : compact, remote
- Power supply : 8~36 VDC, 85~265 VAC
- Working pressure : 1.0 ~ 6.3 MPa
- Accuracy :  $\pm 0.5\%$
- Liner : PTFE, PFA, Neoprene
- Working temperature :  $-20\sim 120^{\circ}\text{C}$



- Product : Mini Magnetic Flow Meter
- Process connection : BSP, NPS Male thread
- Caliber size : DN3, DN6, DN10, DN15
- Structure : Compact
- Power supply : 8~36 VDC, 85~265 VAC
- Working pressure : 1.6 Mpa
- Accuracy :  $\pm 0.5\%$
- Measuring tube : PEEK
- Working temperature :  $-10\sim 55^{\circ}\text{C}$



- Product : Multi-function Magnetic Flow Meter
- Function : Bluetooth, Data logger
- Process connection : Flange, tri-clamp, thread, wafer, insertion
- Caliber size : DN3-DN2000
- Structure : compact, remote
- Power supply : 8~36 VDC, 85~265 VAC
- Accuracy :  $\pm 0.5\%$ ,  $\pm 0.2\%$  optional
- Liner : PTFE, PFA, Neoprene
- Working temperature :  $-20\sim 120^{\circ}\text{C}$



- Product : Open Channel Magnetic Flow Meter
- Water depth : 10m max
- Caliber size : DN50, DN100, DN200, DN400, DN600, DN800
- Structure : Remote
- Power supply : 8~36 VDC, 85~265 VAC
- Working pressure : 1.6 Mpa
- Accuracy :  $\pm 1.5\%$
- Liner : PTFE, PFA, Neoprene
- Working temperature :  $-20\sim 120^{\circ}\text{C}$



# Liquid Turbine Flow Meter

## Description

Turbine flow meter is a volume sensing device. As liquid pass through the turbine housing, it causes the freely suspended turbine blades to rotate. The velocity of the turbine rotor is directly proportional to the velocity of the fluid passing through the flow meter.

The external pickoff mounted on the body of the flow meter, senses each rotor blade passing, causing the sensor to generate a frequency output. The frequency is directly proportional to the volume of the liquid

## Applications

- Aerospace and Automobile fuel consumptions
- Natural Gas in industrial applications
- Ultra-pure water in pharmaceutical
- Monitor fuel supply to ship engines
- Petrochemicals
- Batching, Mixing, and Hygenic
- Edible oil
- Disposal wells

## Features

- ◆ Wide flow rangeability including low flow rates
- ◆ Turndown ratio is up to 35:1
- ◆ Good level of accuracy at an economic price
- ◆ Wide variety of process connections
- ◆ Operate over a wide range of temperatures and pressures
- ◆ Low pressure drop across the turbine
- ◆ Most effective in applications with steady, high-speed flows

## Speciations

- Size : DN4-DN200mm (1/8" ~ 120")
- Accuracy :  $\pm 0.5\%$  of reading,  $\pm 0.2\%$  optional
- Power Supply : DC20V~36V, 3.6 V lithium
- Signal Output : 4~20 mA, pulse, RS485 Modbus,Hart
- Display : LCD Display
- Ambient Temperature :  $-20^{\circ}\text{C}\sim 60^{\circ}\text{C}$
- Measured medium :  $-10\sim 80^{\circ}\text{C}$  compact,  $-10\sim 15^{\circ}\text{C}$  remote
- Nominal Pressure : 1.0~4.0 Mpa
- Process connection : Flange, thread, tri-clamp, wafer
- Body Material : SS304 std, SS316 optional
- Cable Entry : IP65
- Protection Grade : M20 x 1.5 std, 1/2"NPT optional
- Explosion-proof : Ex d IIC T6 Gb





- Product : Turbine Flow Sensor
- Process connection : Thread, flange, tri-clamp
- Caliber size : DN4 - DN200
- Signal output : Pulse
- Power supply : 24 VDC, 3.6 V lithium
- Working pressure : 1.0 ~ 6.3 Mpa
- Accuracy :  $\pm 0.5\%$  std,  $\pm 0.2\%$  optional
- Working temperature :  $-10\sim 80^{\circ}\text{C}$



- Product : Turbine Flow Transmitter
- Process connection : Thread, flange, tri-clamp
- Caliber size : DN4 - DN200
- Signal output : 4~20 mA
- Power supply : 24 VDC, 3.6 V lithium
- Working pressure : 1.0 ~ 6.3 Mpa
- Accuracy :  $\pm 0.5\%$  std,  $\pm 0.2\%$  optional
- Working temperature :  $-10\sim 80^{\circ}\text{C}$



- Product : Turbine Flow Flow
- Process connection : Thread, flange, tri-clamp
- Caliber size : DN4 - DN200
- Signal output : 4~20 mA, Pulse, RS485, HART
- Power supply : 24 VDC, 3.6 V lithium
- Working pressure : 1.0 ~ 6.3 Mpa
- Accuracy :  $\pm 0.5\%$  std,  $\pm 0.2\%$  optional
- Working temperature :  $-10\sim 80^{\circ}\text{C}$



- Product : Turbine Flow Meter
- Process connection : Ttri-clamp 11851
- Caliber size : DN4 - DN200
- Signal output : 4~20 mA, Pulse, RS485, HART
- Power supply : 24 VDC, 3.6 V lithium
- Working pressure : 1.6 Mpa
- Accuracy :  $\pm 0.5\%$  std,  $\pm 0.2\%$  optional
- Working temperature :  $-10\sim 80^{\circ}\text{C}$



- Product : Turbine Flow Meter
- Process connection : NPT / BSP, Male / Female
- Caliber size : DN4 - DN200
- Signal output : 4~20 mA, Pulse, RS485, HART
- Power supply : 24 VDC, 3.6 V lithium
- Working pressure : 1.6 Mpa
- Accuracy :  $\pm 0.5\%$  std,  $\pm 0.2\%$  optional
- Working temperature :  $-10\sim 80^{\circ}\text{C}$



- Product : Turbine Flow Sensor
- Process connection : Wafer
- Caliber size : DN4 - DN200
- Signal output : 4~20 mA, Pulse, RS485, HART
- Power supply : 24 VDC, 3.6 V lithium
- Working pressure : 1.6 Mpa
- Accuracy :  $\pm 0.5\%$  std,  $\pm 0.2\%$  optional
- Working temperature :  $-10\sim 80^{\circ}\text{C}$



## Description

QT Series handheld ultrasonic flowmeter is designed to work with clamp-on transducers to enable the flow of a liquid within a closed pipe to be measured accurately without needing to insert any mechanical parts through the pipe wall or protrude into the flow system. Using ultrasonic transit time techniques, it is controlled by a micro-processor system which contains a wide range of data that enables it to be used with pipes with an outside diameter ranging from 15mm up to 6000mm (depending on model) and constructed of almost any material. The instrument will also operate over a wide range of fluid temperatures.

## Applications

- Wastewater and dirty liquid applications
- Chemical compatibility, less maintenance, and low-pressure drop are required..
- Measure the velocity of a liquid through ultrasound to analyze volume flow.- Coal industry, measuring coal washing and pipeline hydraulic conveying coal slurry.
- measure the disparity between the transit time of ultrasonic pulses which transmits with the direction of liquid flow
- Chemical and petrochemical industries, such as acids and alkalis etc

## Features

- ◆ High Accuracy, Accuracy better than 1%.
- ◆ Wide Measurement Range, Measurement range from DN15~DN6000mm
- ◆ Rechargeable Power Supply, Built-in high-capacity NiMH rechargeable batteries will last more than 10 hours(Fully charged)
- ◆ Non invasion measurement. Can achieve measurement with clamp on sensors
- ◆ Data Storage, 32K BIT built-in data storage,can store two thousand rows of data
- ◆ LCD display, LCD display can display the instant flow,total flow,flow velocity and working condition

## Specifications

- Principle : Transit Time
- Velocity :  $\pm 32$  m/s
- Accuracy :  $\pm 1.0\%$
- Repeatability : 0.2%
- Size : DN15-DN6000mm (1/2" ~ 120")
- Power Supply : 24 VDC, 220 VAC, 3.6 V lithium
- Signal Output : 4~20 mA, Pulse, RS485 Modbus
- Display : LCD Display
- Medium Temperature : -30°C~90°C std, -30°C~160°C
- Turbidity: : 100000 ppm with a little bubble
- Protection grade : IP65 std, IP68 Optional
- Transmitter types : Portable, Wallmount, Module
- Transducers : Clamp-on, insertion, inline
- Data-logger : Portable type, wallmount type



## Transmitter



- Product : Portable Ultrasonic Flow Meter
- Caliber size : DN15 ~ DN6000
- Accuracy :  $\pm 1.0\%$
- Suitable Sensor : Clamp on
- Communication : RS232
- Power supply : 3.6 V lithium
- Working temperature : -30~160°C
- Data logger : Included



- Product : Wallmount Ultrasonic Flow / Heat Meter
- Caliber size : DN15 ~ DN6000
- Accuracy :  $\pm 1.0\%$
- Suitable sensor : Clamp on / Insertion / Inline flange
- Signal output : 4~20 mA, OCT Pulse, Relay
- Communication : RS485 MODBUS-RTU
- Signal input : 3 ways 4~20 mA
- Power supply : 24 VDC, 220 VAC
- Working temperature : -30~80°C



- Product : Modular Ultrasonic Flow Meter
- Caliber size : DN15 ~ DN6000
- Accuracy :  $\pm 1.0\%$
- Suitable sensor : Clamp on / Insertion / Inline flange
- Signal output : 4~20 mA, OCT Pulse, Relay
- Communication : RS485 MODBUS-RTU
- Signal input : 3 ways 4~20 mA
- Power supply : 24 VDC
- Working temperature : -30~80°C

## Transducers



- Type : Clamp on
- Caliber size : DN15 ~ DN6000
- Working temperature : -30~90°C std, -30~160°C optional
- Cable length : 5m
- Protection grade : IP65 std, IP68 optional



- Type : Insertion
- Caliber size : DN80~ DN6000
- Working temperature : -30~160°C
- Cable length : 5m
- Protection grade : IP65



- Type : Inline flange
- Caliber size : DN15 ~ DN6000
- Working temperature : -10~70°C std, -30~150°C optional
- Cable length : 5m
- Protection grade : IP65 std, IP68 optional
- Flange stand : DIN, ANSI, JIS, AS
- Material : Carbon steel, SS304, SS316



## Description

Vortex flow meter is one kind of velocity type flow meter, it is based on Karman vortex theory and adopts piezoelectric crystal to detect the burble frequency of the fluid caused by flowing through the triangular prism in the pipeline and then measure the flow of fluid. It is widely used in petrol, chemical industry, light industry and power heat supply and so on.

## Applications

- Measure non-conductive liquids, gases, saturated and superheated steam, especially for steam measurement trade settlement.
- Work as heat meter to measure the Gross/net heat of steam and hot water
- Industrial gases, such as natural gas, nitrogen gas, liquefied gases, flue gases, carbon dioxide etc, all could use vortex flow meter.- Coal industry, measuring coal washing and pipeline hydraulic conveying coal slurry.
- Compressed air monitoring is very important, vortex flow meter also could use for process control
- Thermal oils, Desalinated water, demineralized water, RO water, boiler feed water, condensate water etc.

## Features

- ◆ Integrated pressure and temperature compensation.
- ◆ 4-20mA, pulse with HART; Optional pulse with RS485
- ◆ Wide temperature range up to highest temperature 350°C
- ◆ Embedded sensor, 4 piezo-electric crystal encapsulated inside the sensor
- ◆ No moving parts, no abrasion, non-wearing parts inside, fully welded SS304 body (Optional SS316).

## Speciations

- Size : DN15-DN300mm (1/2" ~ 12")
- Measured Medium : Liquid, Gas, Steam
- Accuracy :  $\pm 0.5\%$  inline,  $\pm 1.5\%$  insertion
- Measuring range ratio : 1:10(Standard air condition as reference)  
1:15(Liquid)
- Flow Range : Liquid : 0.4-7 m/s  
Gas : 4 ~ 60 m/s  
Steam : 5 ~ 70 m/s  
: DC20V~36V, 3.6 V lithium
- Pressure Loss Coefficient :  $Cd \leq 2.6$
- Vibration Acceleration :  $\leq 0.2g$
- Power Supply : 4~20 mA, pulse, RS485 Modbus,Hart
- Working Temperature :  $-40^{\circ}\text{C} \sim +250^{\circ}\text{C}$  std;  $40^{\circ}\text{C} \sim +350^{\circ}\text{C}$
- Nominal Pressure : 1.0~6.3 Mpa
- Procession connection : Flange, wafer, tri-clamp, insertion
- Body Material : SS304 std, SS316 optional
- Cable length : 10m remote
- Protection Grade : IP65
- Certificates : CE-EMC, CE-LVD, Atex



- Product : Flange Vortex Flow Meter
- Structure : Compact, remote
- Caliber size : DN15 - DN300
- Accuracy :  $\pm 0.5\%$
- Signal output : 4~20 mA, Pulse, RS485, HART
- Body material : SS304 std, SS316 optional
- Process connection : Flange
- Working pressure : 1.0 ~ 6.3 Mpa



- Product : Flange Vortex Flow Meter
- Structure : Compact, remote
- Caliber size : DN15 - DN300
- Accuracy :  $\pm 0.5\%$
- Signal output : 4~20 mA, Pulse, RS485, HART
- Body material : SS304 std, SS316 optional
- Process connection : Flange
- Working pressure : 1.0 ~ 6.3 Mpa
- Function : Temperature and pressure compensation



- Product : Wafer Vortex Flow Meter
- Structure : Compact, remote
- Caliber size : DN15 - DN300
- Accuracy :  $\pm 0.5\%$
- Signal output : 4~20 mA, Pulse, RS485, HART
- Body material : SS304 std, SS316 optional
- Process connection : Wafer
- Working pressure : 1.0 ~ 4.0 Mpa



- Product : Wafer Vortex Flow Meter
- Structure : Compact, remote
- Caliber size : DN15 - DN300
- Accuracy :  $\pm 0.5\%$
- Signal output : 4~20 mA, Pulse, RS485, HART
- Body material : SS304 std, SS316 optional
- Process connection : Wafer
- Working pressure : 1.0 ~ 4.0 Mpa
- Function : Temperature and pressure compensation



- Product : Insertion Vortex Flow Meter
- Structure : Compact, remote
- Caliber size : DN80 - DN300
- Accuracy :  $\pm 1.5\%$
- Signal output : 4~20 mA, Pulse, RS485, HART
- Body material : SS304 std, SS316 optional
- Process connection : DN50 flange
- Working pressure : 1.6 Mpa



- Product : Vortex Flow Sensor
- Structure : Compact
- Caliber size : DN15 - DN300
- Accuracy :  $\pm 0.5\%$  inline,  $\pm 1.5\%$  insertion
- Signal output : 4~20 mA, Pulse
- Body material : SS304 std, SS316 optional
- Process connection : Flange, wafer, tri-clamp, sanitary
- Working pressure : 1.0 ~ 6.3 Mpa



## Description

Thermal gas mass flow meter is one of kind of mass flow meter which is popular in industrial applications in the way they are designed and built. It directly indicate the mass flow or normalized volume flow of gases. The feature is no moving parts, nearly unobstructed straight through flow path, require no temperature or pressure corrections and retain accuracy over a wide range of flow rates. Straight pipe runs can be reduced by using dual-plate flow conditioning elements and installation is very simple with minimal pipe intrusions. In line thermal gas mass flow meter size from DN10~DN2000mm

## Applications

- Compressed air flow and distribution
- Natural gas consumption eg for burner and boiler feed control
- Monitoring and control of stack or flue gas (where composition known)
- Landfill gas recovery
- Flare gas measurement
- Gas leak testing and detection

## Features

- ◆ Wide range ratio 1000:1
- ◆ Large diameter, low flow rate, negligible pressure loss
- ◆ Direct mass flow measurement without temperature and pressure compensation
- ◆ Very sensitive for low flow rate measurement.
- ◆ Easy to design and select, easy to install and use.
- ◆ Suitable for all kinds of single or mixed gas flow measurement Could measure gas with flow velocity from 100Nm/s to 0.1Nm/s, which can be used for gas leak detection.
- ◆ The sensor has no moving parts and pressure sensing parts, and is not affected by vibration on the measurement accuracy. It has good seismic performance and high measurement reliability
- ◆ No pressure loss or very small pressure loss
- ◆ Support multiple communication methods, such as RS485 communication, MODBUS protocol, etc., which can realize factory automation and integration

## Specifications

- Measured medium : Various of dry gas (Except acetylene)
- Size : DN15-DN4000 inline, DN32-DN4000 insertion
- Accuracy :  $\pm 1.0\%$  inline,  $\pm 1.5\%$  insertion
- Velocity : 0.1-100Nm/s
- Response Time : 1S
- Power Supply : DC20V~36V, 220 VAC
- Signal Output : 4~20 mA, pulse, RS485 Modbus,Hart
- Working Temperature : Sensor:-40~+220°C Transmitter:-20~+45°C
- Nominal Pressure : 1.0~4.0 Mpa
- Process connection : Flange, thread, tri-clamp, insertion
- Body Material : SS304 std, SS316 optional
- Cable length : 10m remote
- Cable entry : M20 x 1.5
- Transmitter housing : Aluminium alloy with epoxy painting
- Protection Grade : IP65

# Thermal Mass Flow Meter



- Product : Insertion Thermal Mass Flow Meter
- Structure : Compact, remote
- Accuracy :  $\pm 1.5\%$
- Caliber size : DN32 - DN4000
- Process connection : G1/2" or G3/4" thread
- Signal output : 4~20 mA, Pulse, RS485, HART
- Sensors : SS316
- Sensor body : SS304 std, SS316 optional
- Power supply : 20~36 VDC, 85~265 VAC
- Working pressure : 1.6 Mpa



- Product : Flanged Thermal Mass Flow Meter
- Structure : Compact, remote
- Accuracy :  $\pm 1.0\%$
- Caliber size : DN15 - DN4000
- Process connection : Flange
- Signal output : 4~20 mA, Pulse, RS485, HART
- Sensor body : SS304 std, SS316 optional
- Power supply : 20~36 VDC, 85~265 VAC
- Working pressure : 1.0 ~ 4.0 Mpa



- Product : Tri-clamp Thermal Mass Flow Meter
- Structure : Compact, remote
- Accuracy :  $\pm 1.0\%$
- Caliber size : DN15 - DN4000
- Process connection : Tri-clamp 11851
- Signal output : 4~20 mA, Pulse, RS485, HART
- Sensor body : SS304 std, SS316 optional
- Power supply : 20~36 VDC, 85~265 VAC
- Working pressure : 1.6 Mpa



- Product : Thread Thermal Mass Flow Meter
- Structure : Compact, remote
- Accuracy :  $\pm 1.0\%$
- Caliber size : DN15 - DN4000
- Process connection : NPT / BSP male/female thread
- Signal output : 4~20 mA, Pulse, RS485, HART
- Sensor body : SS304 std, SS316 optional
- Power supply : 20~36 VDC, 85~265 VAC
- Working pressure : 1.6 Mpa



## Description

LZ series intelligent Metal tube floater flowmeter is a variable area flowmeter which is based on the floater position measurement. It adopts full metal structure, which is with the features of small volume, low pressure loss, big range ratio (10~20:1), optional transmitter with HART communication function and installation and maintenance convenient. It is widely used in various industries under the complex and bad environment, which is measuring the flow and controlling the process to the small flow and low flow velocity, and all kinds of harsh conditions of medium.

## Applications

- Metallurgical industry, cooling water for continuous steel casting, continuous steel rolling, and steel-making electric furnaces;
- Water supply and drainage in water plants.
- Paper industry, slurry type used in grinding pulp, water, acid, and alkali.
- Coal industry, measuring coal washing and pipeline hydraulic conveying coal slurry.
- Food and beverage industries, tri-clamp and thread types are used to measure beer and beverage.
- Chemical and petrochemical industries, such as acids and alkalis etc

## Features

- ◆ Simple structure, good stability and reliability
- ◆ Independent of medium's physical and chemical states such as conductivity, dielectric constants, etc.
- ◆ Applicable for all kinds of medium environment such as corrosive, toxic and explosive one
- ◆ Interface measurement or level measurement of 2 kinds of medium with different density.
- ◆ Two-wire 4~20mA DC signal output, 0.8" or 0.56" LCD digital display
- ◆ Easy-to-read displays on all flow meter types)

## Specifications

- Size : DN15-DN150 (1/2" ~ 6")
- Accuracy :  $\pm 1.5\%$  of reading,  $\pm 1.0\%$  optional
- Range ratio : 10:1 (Special type 20:1).
- Measuring range : Water (20°C) 16~150000 l/h.  
Air (0.1013MPa 20°C) 0.5~4000 m<sup>3</sup>/h.
- Power Supply : 20~36 VDC, 85~265 VAC
- Signal Output : two-wire system 4 ~ 20mA / HART .  
three-wire system 0 ~ 10mA.  
Alarm : 1. Two-way relay output.  
2. One-way or two-approach switches .  
Pulse: 0-1KHz isolated output.
- Wetted part : SS304 std, SS3016 optional, HC-276 optional
- Ambient Temperature : -40°C~+120°C (Remote display without LCD  $\leq 85^\circ\text{C}$ ).  
(Remote display with LCD  $\leq 70^\circ\text{C}$ ).  
: Normalized type -80°C~+220°C.
- Medium temperature : High-temp 300°C. Lined with FEP type  $\leq 85^\circ\text{C}$ .
- Nominal Pressure : 1.0 ~ 4.0 MPa
- Dielectric viscosity : DN15  $\leq 30$  mPa.s  
DN25  $\leq 250$  mPa.s  
DN50~DN150  $\leq 300$  mPa.s
- Process connection : Flange, thread, tri-clamp
- Protection Grade : IP65
- Explosion proof : ExiallCT3~6, ExdIICT4~6



- Product : Metal Romtamer
- Type : Digital LCD display
- Installation : Flange
- Accuracy :  $\pm 1.5\%$
- Process connection : Vertical
- Caliber size : DN15 - DN150
- Signal output : 4~20 mA, Pulse, RS485, HART, Alarm
- Wetted part : SS304 std, SS316 optional, HC-276 optional
- Sensor body : SS304 std, SS316 optional
- Power supply : 20~36 VDC, 85~265 VAC
- Working pressure : 1.0 ~ 2.5Mpa
- Working temperature : -80~220°C



- Product : Metal Romtamer
- Type : Mechanical
- Installation : Flange
- Accuracy :  $\pm 1.5\%$
- Process connection : Vertical
- Caliber size : DN15 - DN150
- Wetted part : SS304 std, SS316 optional, HC-276 optional
- Sensor body : SS304 std, SS316 optional
- Working pressure : 1.0 ~ 2.5Mpa
- Working temperature : -80~220°C



- Product : Metal Romtamer
- Type : Digital LCD display
- Installation : Flange
- Accuracy :  $\pm 1.5\%$
- Process connection : Horizontal
- Caliber size : DN15 - DN150
- Signal output : 4~20 mA, Pulse, RS485, HART, Alarm
- Wetted part : SS304 std, SS316 optional, HC-276 optional
- Sensor body : SS304 std, SS316 optional
- Power supply : 20~36 VDC, 85~265 VAC
- Working pressure : 1.0 ~ 2.5Mpa
- Working temperature : -80~220°C



- Product : Metal Romtamer
- Type : Mechanical
- Installation : Flange
- Accuracy :  $\pm 1.5\%$
- Process connection : Horizontal
- Caliber size : DN15 - DN150
- Wetted part : SS304 std, SS316 optional, HC-276 optional
- Sensor body : SS304 std, SS316 optional
- Working pressure : 1.0 ~ 2.5Mpa
- Working temperature : -80~220°C





## Description

QTWG series gas turbine flow meter is a new generation of high-precision and high-reliability gas precision measuring instrument, which is based on the advanced technology of flow meters domestic and abroad. It has excellent low-pressure and high-pressure metering performance, various signal output modes and low sensitivity to fluid disturbance. It is widely used for natural gas, coal-based gas, liquefied gas and other gases application.

## Applications

- Natural Gas
- Petroleum
- Chemical
- Custody-transfer measurement
- Fuel gas consumption
- High-pressure cryogenic fluids

## Features

- ◆ Advanced rectification technology and dust-proof structure
- ◆ Built-in temperature and pressure sensors which can achieve automatically compensation to make sure high accuracy
- ◆ Provides good solution for custody transfer between parties
- ◆ Gas turbine flow meter is with low pressure loss, low initiating flow and wider measurement range
- ◆ The display of gas turbine flow meter support to rotate 350°, easy to read data in different directions.



## Specifications

- |                       |  |
|-----------------------|--|
| ● Product             | : Gas Turbine Flow Meter   |
| ● Size                | : DN25-DN400mm (1" ~ 16")  |
| ● Accuracy            | : ± 1.5% of reading, ± 1.0% optional   |
| ● Repeatability       | : 0.2%   |
| ● Range Ratio         | : Max 40:1 (under P=101.325Kpa,T=293.15K)  |
| ● Power Supply        | : DC20V~36V, 3.6 V lithium   |
| ● Signal Output       | : 4~20 mA, pulse, RS485 Modbus,Hart  |
| ● Sensor Material     | : Aluminum Alloy/Carbon Steel/Stainless Steel  |
| ● Ambient Temperature | : -20℃~60℃   |
| ● Nominal Pressure    | : 1.0~2.5 Mpa  |
| ● Flange Standard     | : EN1092-1 PN10,PN16,PN25,PN40<br>ANSI BS16.5 Class 150<br>JIS2220 10K,20K,40 AS2129<br>Table D,Table E<br>AS4087 PN16,PN21,PN35 |
| ● Explosion Proof     | : Ex ia IIC T6Ga   |
| ● Protection Grade    | : IP65   |

## Description

Coriolis mass flow meter is a new type flow meter which is designed according to Micro Motion and Coriolis principle. It is capable of measuring a wide range of fluids that are often incompatible with other flow measurement devices. It provide a direct mass flow measurement without the addition of external measurement instruments. It measures mass flow, volume flow, fluid density and temperature, all of which can be done with one instrument.

Besides, with batch controller, it can directly control the valve in two stages. Therefore, Coriolis mass flowmeters are widely used in chemical, pharmaceutical, energy, rubber, paper, food and other industrial sectors, and are quite suitable for batching, loading and custody transfer.

## Applications

- Chemical: containing chemical reaction system
- Petroleum: moisture content analysis
- Liquids: including vegetable oils, animal fats and other oils
- Pharmaceutical
- Fuel: crude oil, heavy oil, coal slurry, lubricant and other fuels
- Food: gas dissolving beverage, health drink and other liquid.
- Low temperature fluid, like liquid oxygen and liquid nitrogen, the low temperature up to -200°C
- High pressure fluid, like slurry flow measurement for oil drilling cementing

## Features

- ◆ Unique design delivers unparalleled measurement sensitivity and stability
- ◆Unchallengeable QTCMF performance on liquid mass flow, volume flow, and density measurement
- ◆ Designed to minimize process, mounting, and environmental effect
- ◆ Recording time when power off, record power broken time automatically.
- ◆It have outstanding accuracy. The base accuracy is commonly on the order of 0.2%.



## Speciations

- Size : DN3-DN150 (1/10" ~ 12")
- Accuracy :  $\pm 0.2\%$  std,  $\pm 0.1\%$  optional
- Repeatability: : 1/2 measurement accuracy %
- Density : 0.3~3.000g/cm<sup>3</sup>
- Body Material : SS304
- Protection Grade : IP65
- Power Supply : 24 VDC, 220 VAC
- Signal Output : 4~20 mA, pulse, RS485 Modbus,Hart
- Ambient temperature: : -20~60°C
- Measured Temperature : -200~350°C
- Nominal Pressure : 0.6~6.3 Mpa
- Process connection : Flange, thread
- Explosion-proof : Exd (ia) II C T6Gb

## Description

LZ series intelligent Metal tube floater flowmeter is a variable area flowmeter which is based on the floater position measurement. It adopts full metal structure, which is with the features of small volume, low pressure loss, big range ratio(10~20:1), optional transmitter with HART communication function and installation and maintenance convenient. It is widely used in various industries under the complex and bad environment, which is measuring the flow and controlling the process to the small flow and low flow velocity, and all kinds of harsh conditions of medium.



- Application : All kinds of corrosive liquid
- Measuring Range : 10m, 30m, 70m
- Process Connection : **Thread, Flange**
- Medium Temperature : -40°C ~ 120°C
- Process Pressure : -0.1~0.3 MPa
- Accuracy : ± 5mm
- Protection Grade : IP67
- Signal Output : 4~20mA/HART / Two/Four-wires, RS485-Modbus
- Power supply : 24 VDC, 220 VAC

## Applications

-Mining Industry: transmitters are used to check the depth or length of mines or to check the level of the surface of the ore.

-Aeronautics Industry: levels are often tested by using contact type level indicators. However, in aeronautics, a fuel storage system is a little complex. Therefore, radar level transmitters are used.

-Paper and Pulp Industry:

In the paper and pulp industry, in order to measure the level of slurry, water and storage tanks, these level transmitters are used



- Application : Liquid
- Measuring Range : 10m, 30m, 70m
- Process Connection : **Thread, Flange**
- Medium Temperature : -40°C ~ 150°C
- Process Pressure : -0.1 ~ 4.0 MPa
- Accuracy : ± 3mm
- Protection Grade : IP67
- Signal Output : 4~20mA/HART / Two/Four-wires, RS485-Modbus
- Power supply : 24 VDC, 220 VAC

## Features

- ◆ Small antenna size, easy to install; Non-contact radar, no wear, no pollution
- ◆ Almost no corrosion, bubble effect; almost not affected by water vapor in the atmosphere, the temperature and pressure changes.
- ◆ Serious dust environment on the high level meter work has little effect
- ◆ A shorter wavelength, the reflection of solid surface inclination is better
- ◆ Beam angle is small, the energy is concentrated, can enhance the ability of echo and to avoid interference
- ◆ The measuring range is smaller, for a measurement will yield good results..



- Application : Solid material, Strong dust
- Measuring Range : 10m, 30m, 70m
- Process Connection : **Thread, Flange**
- Medium Temperature : -40°C ~ 120°C
- Process Pressure : -0.1~0.3 MPa
- Accuracy : ± 5mm
- Protection Grade : IP67
- Signal Output : 4~20mA/HART / Two/Four-wires, RS485-Modbus
- Power supply : 24 VDC, 220 VAC



## Description

Flange ultrasonic level meter is based on the Time-of-Flight principle. A sensor emits ultrasonic pulses, the surface of the media reflects the signal and the sensor detects it again. The Time-of-Flight of the reflected ultrasonic signal is directly proportional to the distance traveled. With the known tank geometry the level can be calculated.



## Applications

- Storage Tank
- Pool
- Drains
- Granary
- Wells
- Metering Box

## Features

- ◆ Non-contact, maintenance-free measurement.
- ◆ Measurement unaffected by media properties, like dc value or density
- ◆ Calibration without filling or discharging
- ◆ Self-cleaning effect due to vibrating sensor diaphragm.

## Specifications

- Measuring range : 4m, 6m, 8m, 12m, 20m, 30m
- Structure : Compact, remote
- Accuracy : 0.5%
- Resolution : 3mm or 0.1%
- Sensor material : PVC, ABS
- Protection Grade : IP65 for transmitter, IP68 for sensor
- Power Supply : 24 VDC
- Signal Output : 4~20 mA, pulse, RS485 Modbus, Hart
- Ambient Temperature : -20°C~60°C
- Sensor temperature : -40 ~ 75°C
- Cable length : 10m
- Process connection : G2"
- Cable entry : M20 x 1.5 std, 1/2" NPT

## Softbi solutions

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