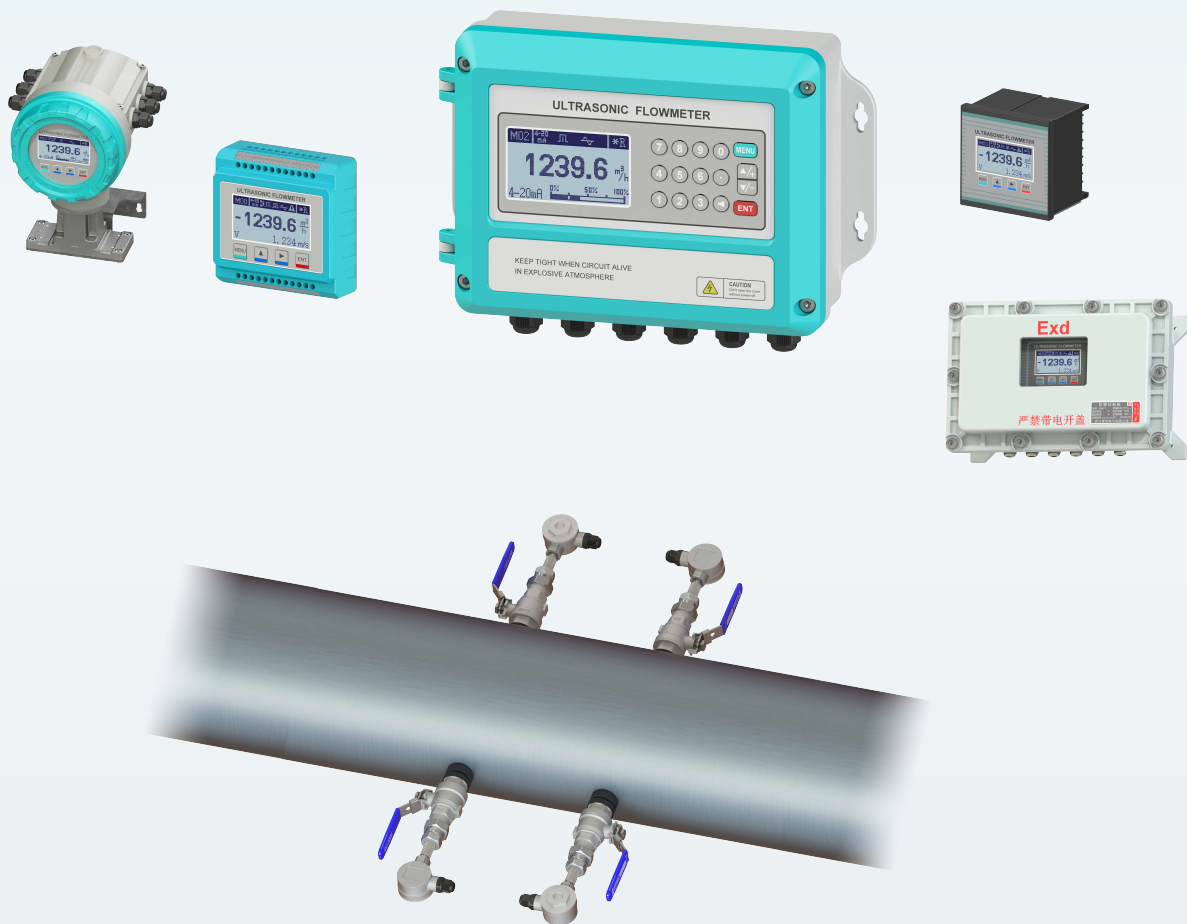




selection
sample

2023
edition

multi-channel

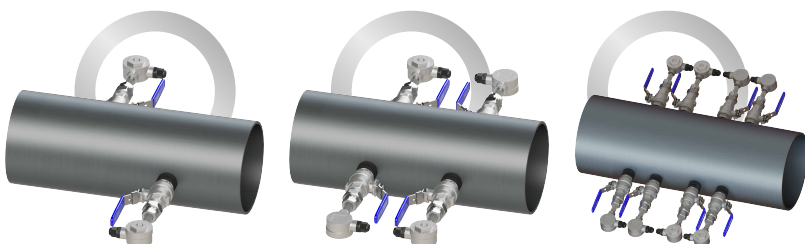
insertion ultrasonic flowmeter

The series multi-channel insertion ultrasonic flowmeter is based on intelligence and integrative mixed signal processing technology launched a series of high precision ultrasonic flowmeters.

Using the special opening tool, it can realize install the insertion transducer without cutoff water, because the transducer is contact with the fluid directly, the measurement is stable and reliable. The ultrasonic flowmeter have been widely used in process control, production measurement, trade settlement and other territories. In water supply and drainage, metallurgy, petrochemical, water benefit engineering, energy monitoring industries, the series multi-channel insertion ultrasonic flowmeter has been used widely.



- No need cutoff water with installation
- one-channel, two-channel, four-channel transducer can be selected
- Different channel number, measurement accuracy range 0.5-1%
- Measurement pipe diameter from DN50-DN6000
- Big LCD, displaying abundant information
- -30°C~160°C fluid temperature
- Stainless steel transducers, strong durability
- Connecting three-wire or four-wire temperature transducer can finish the heat/cooling energy measurement



Multi-channel insertion ultrasonic flowmeter is constituted as converter and insertion transducers, the converter and insertion transducers can be arbitrary combined, which can realize one-channel, two-channel, four-channel flow measurement to meet different precision and measurement occasions.

- Optional converters



Fixed mount converter



Wall mount converter



Module converter

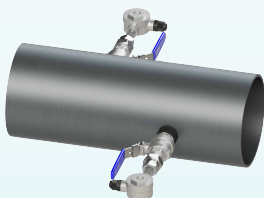


Explosion proof converter

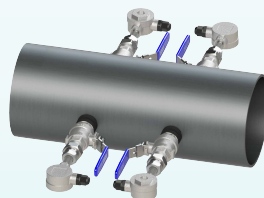


Panel mount converter

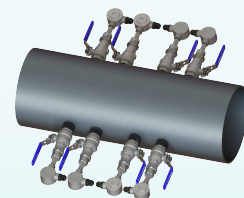
- Optional transducer



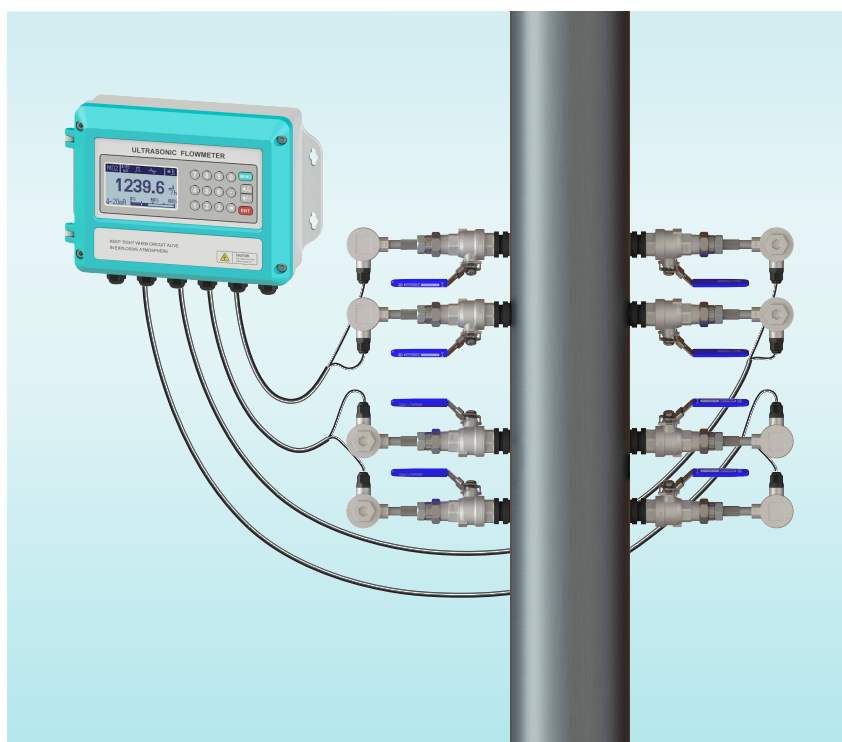
One-channel transducer



Two-channel transducer



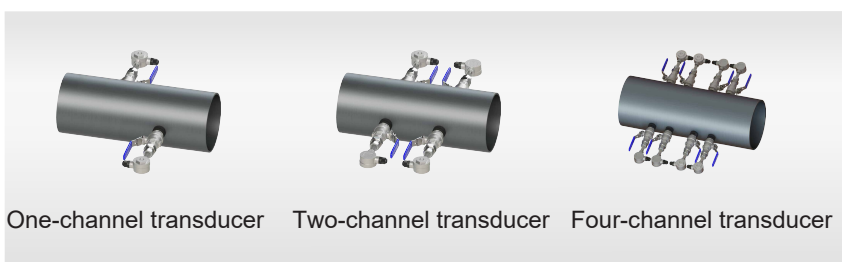
Four-channel transducer



Liquid crystal display



- Converter can be mounted on walls, instrument boxes
- Big LCD displaying, abundant information
- One-channel, two-channel, four-channel can be selected
- Navigation menu + sixteen-digit key operation
- Die casting aluminum converter, strong durability
- Equip with stainless steel probe and probe column
- 32 megabytes of memory, U disk can be customized mass storage data
- Connecting three-wire or four-wire temperature transducer
- Pt100 can finish heat/cooling energy measurement



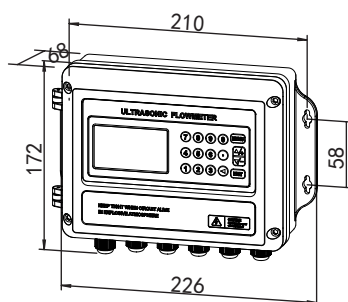
Working environment

	converter	transducer
Protection class	IP67	IP68
Humidity	≤85%RH	IP68
Temperature	-20~60 ℃	-30 ℃~160 ℃

Essential parameter

	One-channel	Two-channel	Four-channel
Accuracy	±1%	±0.5%	±0.5%
Flow rate	≥0.3m/s	≥0.3m/s	≥0.1m/s
Pipe diameter	DN50~DN6000mm		
Liquid temperature	-30 ℃~160 ℃		
Type of liquid	Water, sea water, sewage, Acid-alkali solution, ethyl alcohol, beer, single and even liquid which can transmit sound wave, such as oil, etc		
Signal output	1 way 4-20mA output, electric resistance 0-1K (DC24V power supply), accuracy 0.1% 1 way OCT pulse output, pulse width 6-1000ms 1 way relay output or frequency output		
Signal input	3 way 4-20mA input, can be a data collector Connect three wire/four wire PT100 temperature transducer to realize heat/cooling energy measurement		
Data interface	Insulate RS485 serial interface, support the MODBUS		
Power supply	DC8-36V; AC10-30V; AC85-264V		

Installation dimension

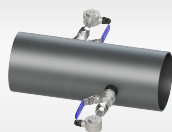




Liquid crystal display

MOO $\frac{+20}{mA}$ 2 $\frac{mL}{h}$ $\frac{m^3}{h}$ *R
- 1239.6 $\frac{m^3}{h}$
 V 1.234 m/s

- DIN-rail mounting, batch installation in instrument box or distribution cabinet
- Big LCD displaying, abundant information
- One-channel can be selected
- Navigation menu+four-digit key operation
- Built-in 32 megabytes of memory, can store 2000 rows of data
- Equip with stainless steel probe and probe column
- Small size, cost-effective
- Connecting three-wire temperature transducer Pt100 can finish heat/cooling energy measurement



One-channel transducer

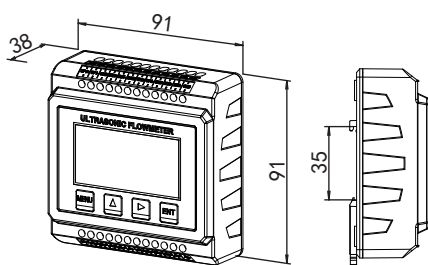
Working environment

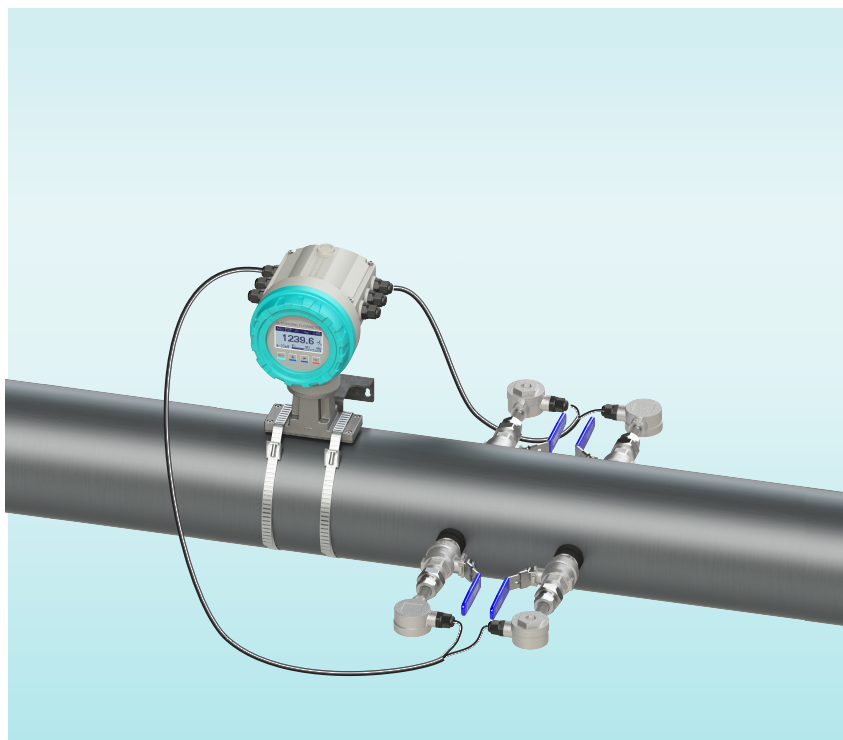
	converter	transducer
Protection class	IP30	IP68
Humidity	≤80%RH	IP68
Temperature	-20~60℃	-30℃~160℃

Essential parameter

One-channel	
Accuracy	±1%
Flow rate	≥0.3m/s
Pipe diameter	DN50~DN6000mm
Liquid temperature	-30℃~160℃
Type of liquid	Water, sea water, sewage, Acid-alkali solution, ethyl alcohol, beer, single and even liquid which can transmit sound wave, such as oil, etc
Signal output	1 way 4-20mA output, electric resistance 0-1K(DC24V power supply), accuracy 0.1% 1 way OCT pulse output, pulse width 6-1000ms 1 way relay output or frequency output
Signal input	3 way 4-20mA input, can be a data collector Connect three wire/four wire PT100 temperature transducer to realize heat/cooling energy measurement
Data interface	Insulate RS485 serial interface, support the MODBUS
Power supply	DC8-36V; AC10-30V

Installation dimension

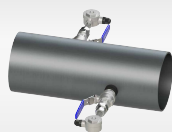




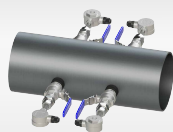
Liquid crystal display



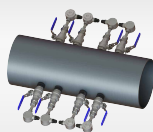
- Converters can be installed on wall surface or on pipes
- Big LCD displaying, abundant information
- one-channel, two-channel, four-channel can be selected
- Navigation menu + four-digit capacitor key operation
- Die casting aluminum converter, strong durability
- Equip with stainless steel probe and probe column
- Connecting three-wire or four-wire temperature transducer Pt100 can finish heat/cooling energy measurement



One-channel



Two-channel

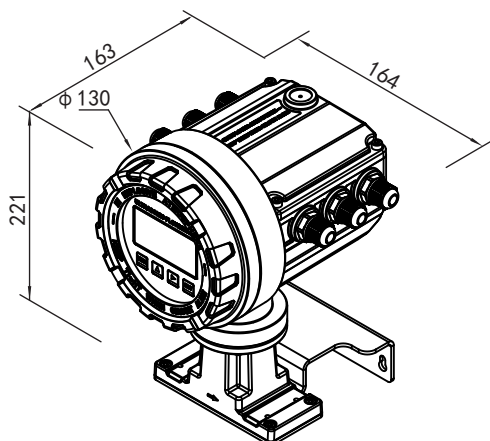


Four-channel

Working environment

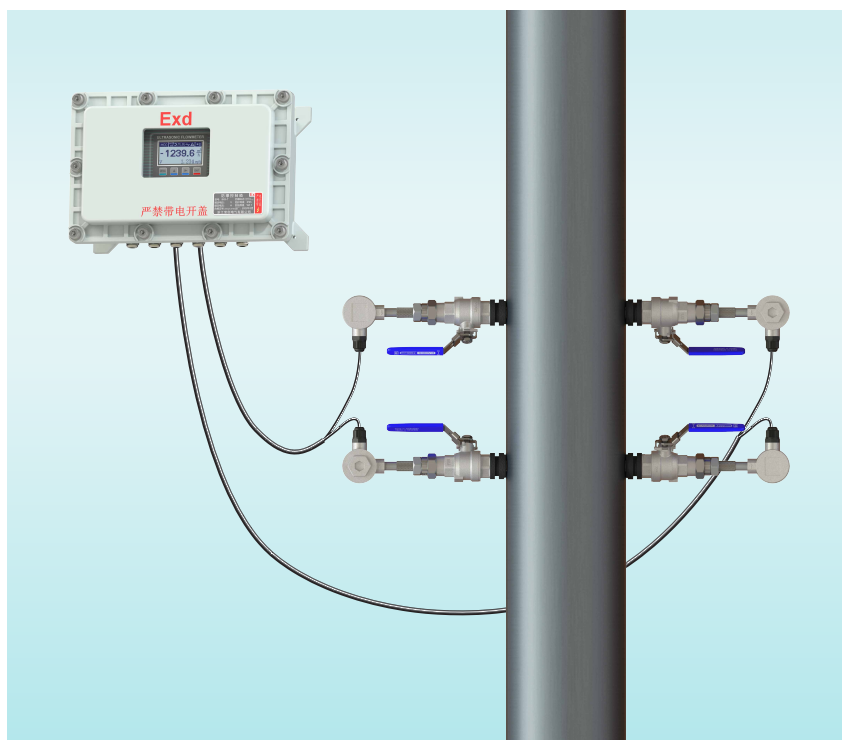
	converter	transducer
Protection class	IP68	IP68
Temperature	-20~60℃	-30℃~160℃

Installation dimension



Essential parameter

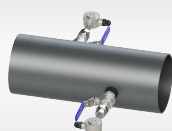
	One-channel	Two-channel	Four-channel
Accuracy	±1%	±0.5%	±0.5%
Flow rate	≥0.3m/s	≥0.3m/s	≥0.1m/s
Pipe diameter	DN50~DN6000mm		
Liquid temperature	-30℃~160℃		
Type of liquid	Water, sea water, sewage, Acid-alkali solution, ethyl alcohol, beer, single and even liquid which can transmit sound wave, such as oil, etc.		
Signal output	1 way 4-20mA output, electric resistance 0-1K(DC24V power supply), accuracy 0.1% 1 way OCT pulse output, pulse width 6-1000ms 1 way relay output or frequency output		
Signal input	3 way 4-20mA input, can be a data collector Connect three wire/four wire PT100 temperature transducer to realize heat/cooling energy measurement		
Data interface	Insulate RS485 serial interface, support the MODBUS		
Power supply	DC8-36V; AC10-30V; AC85-264V (Optional waterproof power adapter)		



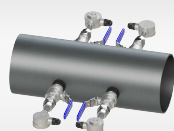
Liquid crystal display

MOO $\frac{+20}{mA}$ 2 $\frac{mL}{h}$ $\frac{m^3}{h}$ *R
- 1239.6 $\frac{m^3}{h}$
 V 1.234 m/s

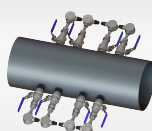
- Isolation type explosion-proof, used in flammable and explosive occasions
- Explosion proof class: DIBT5
- Big LCD displaying, abundant information
- One-channel, two-channel, four-channel can be selected
- Navigation menu + four-digit key operation
- Die casting aluminum converter, strong durability
- Equip with stainless steel probe and probe column
- Connecting three-wire or four-wire temperature transducer Pt100 can finish heat/cooling energy measurement



One-channel



Two-channel



Four-channel

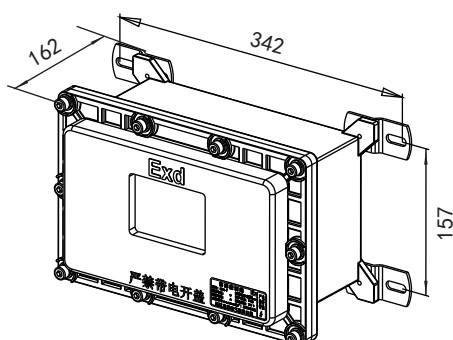
Working environment

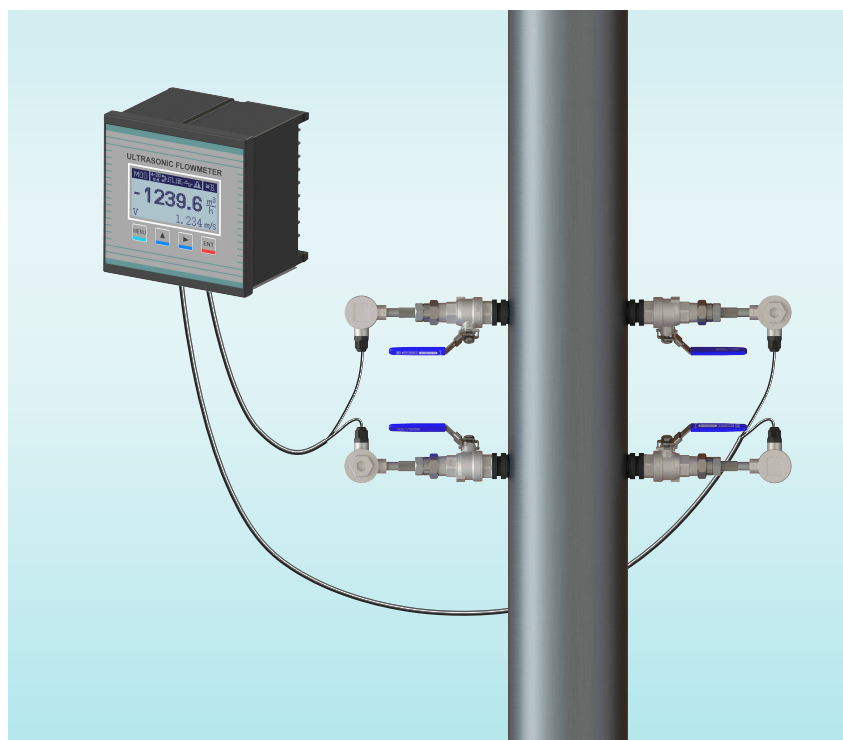
	converter	transducer
Protection class	IP65	IP68
Humidity	≤85%RH	IP68
Temperature	-20~60 °C	-30 °C ~160 °C

Essential parameter

	One-channel	Two-channel	Four-channel
Accuracy	±1%	±0.5%	±0.5%
Flow rate	≥0.3m/s	≥0.3m/s	≥0.1m/s
Pipe diameter	DN50~DN6000mm		
Liquid temperature	-30 °C ~160 °C		
Type of liquid	Water, sea water, sewage, Acid-alkali solution, ethyl alcohol, beer, single and even liquid which can transmit sound wave, such as oil, etc		
Signal output	1 way 4-20mA output, electric resistance 0-1K (DC24V power supply), accuracy 0.1% 1 way OCT pulse output, pulse width 6-1000ms 1 way relay output or frequency output		
Signal input	3 way 4-20mA input, can be a data collector Connect three wire/four wire PT100 temperature transducer to realize heat/cooling energy measurement		
Data interface	Insulate RS485 serial interface, support the MODBUS		
Power supply	DC8-36V; AC10-30V; AC85-264V		

Installation dimension





Liquid crystal display

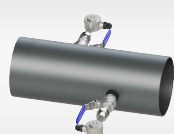
MOO $\frac{+20}{mA}$ $\frac{2}{mL}$ $\frac{1}{h}$ $\frac{A}{*R}$

- 1239.6 $\frac{m^3}{h}$

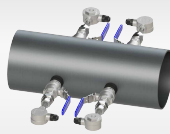
V 1.234 m/s

- Application for instrument panel mounting
- Big LCD displaying, abundant information
- One-channel, two-channel can be selected
- Navigation menu + four-digit key operation
- The shell is made of ABS Engineering Plastics
- Equip with stainless steel probe and probe column
- Connecting three-wire or four-wire temperature transducer

Pt100 can finish heat/cooling energy measurement



One-channel



Two-channel

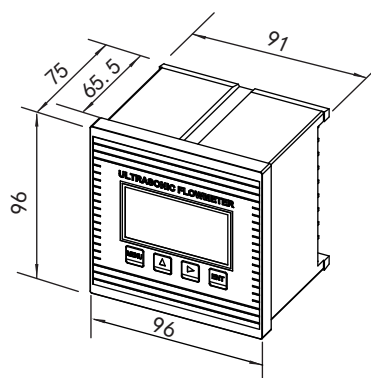
Working environment

	converter	transducer
Protection class		IP68
Humidity	≤80%RH	IP68
Temperature	-20~60℃	-30℃~160℃

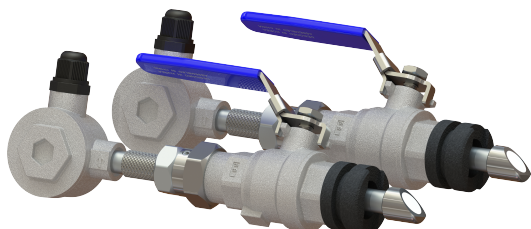
Essential parameter

	One-channel	Two-channel
Accuracy	±1%	±0.5%
Flow rate	≥0.3m/s	≥0.3m/s
Pipe diameter	DN50~DN6000mm	
Liquid temperature	-30℃~160℃	
Type of liquid	Water, sea water, sewage, Acid-alkali solution, ethyl alcohol, beer, single and even liquid which can transmit sound wave, such as oil, etc	
Signal output	1 way 4-20mA output, electric resistance 0-1K (DC24V power supply), accuracy 0.1% 1 way OCT pulse output, pulse width 6-1000ms 1 way relay output or frequency output	
Signal input	3 way 4-20mA input, can be a data collector Connect three wire/four wire PT100 temperature transducer to realize heat/cooling energy measurement	
Data interface	Insulate RS485 serial interface, support the MODBUS	
Power supply	DC8-36V; AC10-30V	

Installation dimension

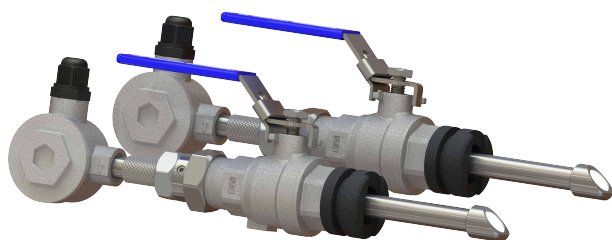


- Standard Insertion Transducer(ATC-1)



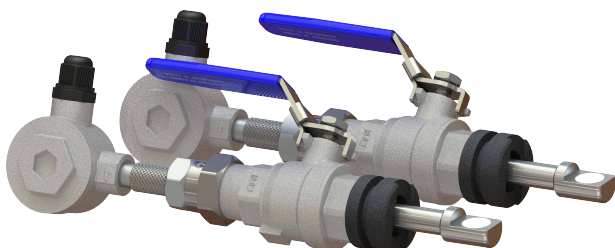
- Suitable for carbon steel pipe, stainless steel pipe, cement pipe, cast iron pipe, steel pipe, PVC pipe or composite pipe
- Pipe wall thickness ≤ 20 mm
- Measurement diameter range DN50-DN6000
- Temperature range: $-30\sim+160^{\circ}\text{C}$

- Lengthen insertion transducer(ATC-2)



- Suitable for carbon steel pipe, stainless steel pipe, cement pipe, cast iron pipe, Steel pipe, PVC pipe or composite pipe
- Pipe wall thickness ≤ 70 mm
- Measurement diameter range DN50-DN6000
- Temperature range: $-30\sim+160^{\circ}\text{C}$

- Parallel insertion transducer(ATP-1)



- Suitable for locations where the installation space is insufficient
- Both weldable and non-weldable pipes can be used
- The wall thickness is unlimited and the insertion depth is $1/3$ pipe diameter
- Measurement diameter range DN80-DN6000
- Temperature range: $-30\sim+160^{\circ}\text{C}$

Pipe hoop

The insertion transducer can be installed without welding using the pipe hoop, which realizes to install the insertion ultrasonic flowmeter without cutoff water. Especially suitable for installation of cement pipe, cast iron pipe, PVC, copper pipe or composite pipe

