





High Accuracy

Accuracy better than 1%.

✓ Measure Range

Select different model sensors, can achieve DN15-DN6000mm pipe flow measurement

✓ High Reliability

Adopt low voltage, multi-pulse radiating circuit. Accuracy, Lifetime and Reliability are better.

✓ High Anti-interference

Adopt double balanced signal differencial transmission, receiving circuit, effective resist the drive, tower, Strong power lines and other source of interference.

✓ Powerful Memory Function

Automatic memory the cumulative flow of 512 days before, 128 months before, 10 years before. Automatic memory the power-on and off of 64times before and the flow. Automatic memory the meter working condition of 32days before.

✓ Support Temperature Sensor

Connect with Temperature sensor, it can measure heat flow.

✓ Support SD card memory

Select SD card memory, it can realize mass storage by ultrasonic flowmeter

PRODUCT INTRODUCTION

The AFT Ultrasonic Flowmeter widely used to measure different kinds of liquid.

Transmitter and transducer install seperately. Transmitter can install at indoor, Instrument cabinet, Dashboard.

Transducer install on the pipes. Transmitter and Transducer connect by special cable.

It can realize to measure flow.Connect with temperature sensor, it can measure heat flow.

Widely used in Running water, Heating, Water conservation, Metallurgy, Chemical industry, Machinery, Energy etc.

Used for production monitoring, water balance testing, thermal equilibrium network commissioning, energy monitoring. It is most important flow measure instrument during manufacturing process.

MEASUREMENT CONPOSITION

Flow Measurement	Heat/Cold	Energy Feature
Clamp On Type		*Installation without drying up, no pressure loss *Easy installation and maintenance *Mating clamp temperature sensor that can measure the temperature of the outside of tube to achieve heat measure
		Water supply pipe Water return pipe
		*Installation without drying up, no pressure loss *Stable and reliable during lont-term operation *Mating clamp temperature sensor that can measure the temperature of the outside of tube to achieve heat measure Water supply pipe
Insertion Type		Water return pipe *Installation require drying off the pipe *High accuracy,Stable and reliable during lont-termoperation *Mating clamp temperature sensor that can measure the temperature of the outside of tube to achieve heat measure
Pipe Type		Water supply pipe Water return pipe



Due to different installation circumstance, choose different transmitter



*Wall-Mounted Type AFT *Used to mount on the wall *Dimension:170*180*56mm *Power supply: DC8-36V or AC85-264V



- *Panel Mounted Type AFT *Used for meter cabinsets installation
- *Dimension:152*76mm
- *Power supply:
- DC8-36V or AC85-264V



- *Explosion Proof Type AFT
- *Used for hazardous area
- *Dimension:298*298*110mm
- *Power supply: DC8-36V or AC85-264V
- *Ex-proof Class:DIIBT4



TRANSDUCER

Due to different liquid, pipeline condition installation circumstance, choose different transducer

Туре	Picture	Specification	Model el	Pipe Size	Temperature	Dimension
Standard Clamp On Type	-	Small	TS-2	DN15~DN100	-30~90°C	45×25×32mm
		Medium	TM-1	DN50~DN700	-30~90°C	64×39×44mm
		Large	TL-1	DN300~DN6000	-30~90℃	97×54×53mm
High	-	Small	TS-2-HT	DN15~DN100	-30~160℃	45×25×32mm
Temperature Clamp On Type	-	Medium	TM-1-HT	DN50~DN700	-30~160℃	64×39×44mm
	-	Large	TL-1-HT	DN300~DN6000	-30~160℃	97×54×53mm
Insertion Type	abudh	Standard	TC-1	DN80~DN6000	-30~160°C	190×80×55mm
	diana dian	longer type	TC-2	DN80~DN6000	-30~160°C	335×80×55mm
Pipeline Type	21/	π	G3	DN15~DN25	-30~160°C	SS304 Thread Connection
	2	Standard	G2	DN32/DN40	-30~160°C	CS Thread Connection
		Standard	G1	DN50~DN6000	-30~160°C	CS Flange Connection

Temperature Sensor

Picture;	Specification	Model	Measurement Range		Installation Requirement	Accuracy	
-	Three Wire PT100 Clamp Temperature Sensor	CT-1	>DN50	-40~160°C	no need cut flow		
	Three Wire PT100 Insertion Temperature Sensor	TCT-1	>DN50	-40~160°C	need cut flow	100°C ±0.8°C	
	Three Wire PT100 pressure installation insertion temperature sensor	PCT-1	>DN50	-40~160℃	no need cut flow	Temperature differece ≪0. 1℃ after match accurately	
0	Small size three wire PT100 Insertion Type temperature sensor	SCT-1	<dn50< td=""><td>-40~160℃</td><td>need cut flow</td></dn50<>	-40~160℃	need cut flow		



SD card can realize the mass storage for ultrasonic flowmeter Measuring data can deal with use our company software"flow data analysis, statistical"



Wall-mounted ultrasonic flowmeter selection code

HBEUF- TYPE- Ty	pe of sensor - Length of cable	e() m-DN() -	SD card -	-coupling
SW wall mounted D Explosion proof type M Module type	 TS-2 standard small TM-1 standard medium size TL-1 Standard large TS-2-HT high temperature miniature TM-1-HT High temperature 	15-6000	1 without 2 with	1 No pipe collar 2 Piping hoop
	medium 6 TL-1-HT High temperature	Selection description: H	BEUF-SW-2-5*2	2-DN100-2
	large	Wall-mounted ultrasoni	c flowmeter, wi	ith standard
	7 HS standard scaffolding typesmall8 HM standard frame medium	medium-sized external meters *2, pipe diamete		•
	9 EB-1 standard extension bracket	Selection description: H	BEUF-SW-13-5	*2-DN200-2-2
	 10 HS-HT high temperature scaffolding type small 11 HM-HT high temperature scaffolding medium 12 EB-1-HT high temperature extension bracket 	Insert type ultrasonic flo sensor, cable length 5 m select SD card, pipe coll	neters *2, pipe o	1 0
	insert type:13 TC-1 Standard insert type14 TC-2 extended insert type15 TP-1 Parallel insert type			

TECHNICAL PARAMETERS

Туре	Performance, specification			
	Principle	Ultrasonic transit-time principle,Four-byte IEEE754 floating-point arithm		
	Accuracy	Better than $\pm 1\%$		
	Display	LCD display with Chinese, English Display		
		One 4-20mA Current output,Impedance0-1K,Accuracy 0.1%		
Transmitter	Output	One OCT Pulse output(Width 6-1000ms,Default200ms)		
		One Relays output		
		Three 4-20mA Current input, accuracy 0.1%, can collect temperature, pressure, level signals etc.		
	Input	Can connect with three-wire PT100 Plastnium resistance to measure heat flow.		
	Data Interface	Isolated RS485 interface, can upgrade flowmeter through PC, support modbus		
Cable	Normal below 50m;Select RS485 Communication,Transmission distance can over thousand meters.			
	material	Steel,Stainless steel,Cast iron,copper,PVC,aluminium,FRP etc.(liner allowed)		
Pipe	Diameter	15~6000mm		
Condition	Installation	Upstream 10D,downstream 5D,30D away from the pump outlet(D for diameter)		
	Fluid	Water,sea water,acid liquid,beer,alcohol,oil and any other liquid that can spread sonic		
Medium	Temperature	—30~160 °C		
	Turbidity	10000ppm and with little bubbles		
	Velocity	0~±10m/s		
Operating	Temperature	Transmitter:-20~60 °C;Transducer:-30~160 °C		
Environment	Humidity	Transmitter:85%RH;transmitter protection grade:IP68;Water Depth<2m		
Power Supply	DC8-36V or AC85-264V			
Consumption	1.5W			