Wallmounted Ultrasonic Flowmeter



FEATURE

*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, receving 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 meaure heat flow.

*Support SD card memory

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

PRODUCT INTRODUCTION

The QTDS 100F Ultrasonic Flowmeter widely used to measure different kinds of liquid.

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

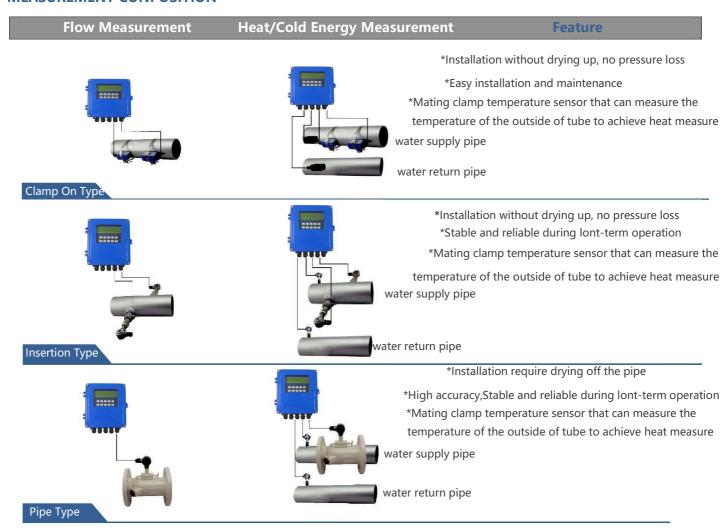
Transducer install on the pipes. Transmitter and Transducer connect by special cable.

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 monit it is most important flow measure instrument duiring manufacturing process.

MEASUREMENT CONPOSITION



TRANSMITTER

Due to different installation circumstance, choose different transmitter



- *Wall-Mounted Type QTDS 100F
- *Used to mount on the wall
- *Dimension:170*180*56mm
- *Power supply: DC8-36V or AC85-264V



- *Panel Mounted Type QTDS 200F
- *Used for meter cabinsets installation
- *Dimension:152*76mm
- *Power supply:



- *Explosion Proof Type QTDS 300F
- *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	Pipe Size	Temperature	Dimension
Standard Clamp On Type	900	Small	S2	DN15 ~DN100	-30~90℃	45×25×32mm
		Medium	M2	DN50 ~DN700	-30~90℃	64×39×44mm
		Large	L2	DN300 ~DN6000	-30~90℃	97×54×53mm
High	**	Small	HS	DN15 ~DN100	-30~160℃	45×25×32mm
Temperature Clamp On Type	*	Medium	НМ	DN50 ~DN700	-30~160℃	64×39×44mm
	1	Large	HL	DN300 ~DN6000	-30~160℃	97×54×53mm
Insertion Type	all the sale	Standard	TC-1	DN80 ~DN6000	-30~160℃	190×80×55mm
		longer type	TC-2	DN80 ~DN6000	-30~160℃	335×80×55mm
Pipeline Type	11	π	G3	DN15 ~DN25	-30~160℃	SS304 Thread Connection
	-	Standard	G2	DN32 /DN40	-30~160℃	CS Thread Connection
		Standard	G1	DN50 ~DN6000	-30~160℃	CS Flange Connection

Temperature Sensor

Picture	Specification	Model	Measuremer Range	√emperature Range	Installatio Requireme	
98	Three Wire PT100 ClampTemperatureSensor	CT-1	≥DN50	-40~160℃	no need cut	
	Three Wire PT100 Insertion Temperature Sensor	TCT-1	≥DN50	-40~160℃ -40~160℃	need cut f	ow 100°C ±0.8°C
	Three Wire PT100 pressure installation insertion temperature	PCT-1	≥DN50	-40~160°C	Noneedcu	t Temperature difference<0.1°C
0	Small size three wirePT100 Insertion Type temperature senso	SCT-1	<dn50< td=""><td>-40~160°C</td><td>No need cu</td><td>t</td></dn50<>	-40~160°C	No need cu	t

SD Memory Card

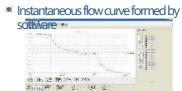
SD card can realize the mass storage for ultrasonic flowmeter Measuring data can deal with use our company software flow data analysis, statistical"



··· SD card memorize & cassette





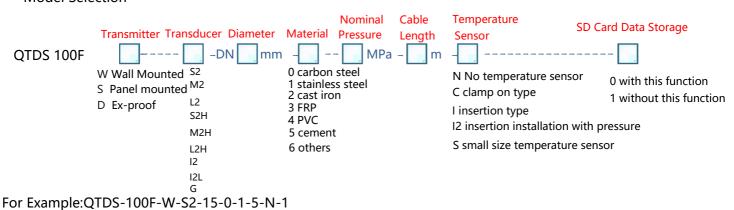




TECHNICAL PARAMETERS

Туре	Performance, specification					
8	Principle Ultrasonic transit-time principle, Four-byte IEEE754 floating-point arithmetic					
8	Accuracy	Better than ±1%				
Transmitter	Display	LCD display with Chinese,English Display				
		One 4-20mA Current output,Impedance0-1K,Accuracy 0.1%				
		One OCT Pulse output(Width 6-1000ms, Default 200ms)				
		One Relays output				
	Input	Three 4-20mA Current input,accuracy 0.1%,can collect temperature,pressure,level signals etc.				
		Can connect with three-wire PT100 Plastnium resistance to measure heat flow.				
		Isolated RS485 interface, can upgrade flowmeter through PC,support modbus				
Cable	Normal below 50m;Select RS485 Communication,Transmission distance can over thousand					
Pipe Condition		Steel,Stainless steel,Cast iron,copper,PVC,aluminium,FRP etc.(liner allowed) r 15~6000mm				
	Installation	Upstream 10D,downstream 5D,30D away from the pump outlet(D for diameter)				
Wiedidiii	Fluid	Water,sea water,acid liquid,beer,alcohol,oil and any other liquid that can spread sonic				
	Temperatu	e -30~160 deg C				
	Turbidity	10000ppm and with little bubbles				
	Velocity	0~±10m s				
l Environment l	emperatur	Transmitter:-20~60 deg C;Transducer:-30~160 deg C				
	Humidity	Transmitter:85%RH;transmitter protection grade:IP68;Water Depth<2m				
Power Supply	DC8-36V or AC85-264V					
Consumption	1.5W					

Model Selection



Explanation: Fixed Remote type ultrasonic flowmeter; Wall mounted transmitter, small size standard transducer, DN15, carbon steel material, nominal pressure 1.0Mpa, 5m cable, No temperature sensor

without SD card data storage.