

TUF2000F Flanged Ultrasonic Flowmeter

Specification

·High Accuracy

Up to 1% accuracy, 0.5% for the Linearity and 0.2% for the Repeatability.

Wide Measuring Range

Available for the flow measurement of DN15 \sim DN1500 pipelines (customizable).

·Easy Operation

Support the menu operation using the mag bar or keyboard

- ·Powerful Memory Capacity
- ·Automatic memory of the accumulated flow data of the last 512 days,

128 months and 10 years, and the last 64 times calls and blackouts and flow, as well as the flowmeter working condition of the last 32 days.

·Heat Measurement Available

Built-in temperature sensor available for heat measurement.

Introduction

The flowmeter converter part and sensor part are both mounted to the pipeline. It meets IP68 rating. It can be widely used for applications like water resources monitoring, farmland irrigation, etc. It is available for easy operation with a magnetic bar outside the meter, also supports four-key keyboard menu operation. The heat measurement can be achieved by a built-in temperature sensor.

Flow measurement

Clamp-on Type	Insertion Type	Flanged Type
	ALC.	

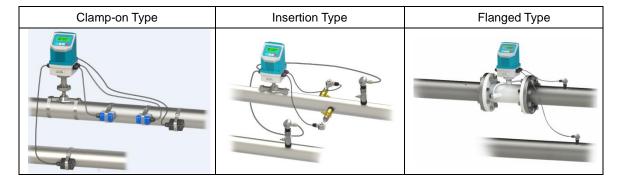




- Installation with no flow cutoff and pressure loss;
- ·Accuracy can reach 1%;
- Easy installation and maintenance, users can install it by themselves;
- ·Wide measured range;
- Suitable for environments with good working conditions.
- Installation with no flow cutoff (installation under pressure), no pressure loss;
- ·Accuracy can reach 1%;
- Users can use the special hole tapper to install the product by themselves after training;
- ·Wide measured range
- ·Stable and reliable long-term operation.

- Installation with no flow cutoff and pressure loss;
- ·Accuracy can reach 1%;
- ·Convenient installation and maintenance, users can install it by themselves;
- •The larger the measurement pipeline diameter is, the higher the cost will be;
- ·Stable and reliable long-term operation.

Heat Measurement



Temperature Sensors(Optional)

Picture	Туре	Model	Pipeline	Temp. Range	Installation	Accurac y
	Three-wire PT100 Clamp-on Mounted Temperature Sensor	CT-1	≥DN50	-40℃~160℃	With no cutoff	
	Three-wire PT100 Insertion Mounted Temperature Sensor	TCT-	≥DN50	-40℃~160℃	Cutoff needed	100℃
	Three-wire PT100 Insertion Mounted Temperature Sensor(installation under pressure)	PCT-	≥DN50	-40℃~160℃	With no cutoff (Installation Under Pressure)	±0.8°C, after matched ≤0.1°C
	Small Size 3-wire PT100 Insertion Mounted Temperature Sensor	SCT-	<dn50< td=""><td>-40℃~160℃</td><td>Cutoff needed</td><td></td></dn50<>	-40℃~160℃	Cutoff needed	

http://www.microsensor.cn

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麦克传感器股份有限公司 MICRO SENSOR CO.,LTD.



Specification

incation						
Т	ype	Parameters				
	Principle	Transit-time-difference method				
	A = =	Flow: 1%; Heat secondary meter(better);				
	Accuracy	repeatability: ±0.2%; linearity±0.5%				
0	G .:	Support 4-key magnetic stick operation or 4-key touch keyboard,				
Converter	Operation	simulated keyboard software				
	Output	4mA~20mA DC				
	Input	Support three-wire temperature sensor to achieve heat measurement				
	Interface	RS485 output, MODBUS protocol				
		Dense pipe including steel, stainless steel, cast iron, cement, copper,				
Dina	Material	PVC, aluminum, fiberglass, etc.(can be with lining)				
Pipe	Diameter	DN15~DN1500				
	Straight Pipe	Upstream ≥10D, downstream ≥5D, ≥30D from the pump outlet				
	_	Ultrasound conductive onefold even medium: water, sewage, sea water,				
	Туре	chemical liquid, oil, alcohol, etc.				
Madius	Temperature	-30℃~160℃				
Medium	Turbidity	10000ppm, low bubble content				
	Flow Rate	(0 40) = (-				
	Range	(0∼±10)m/s				
	Temperature	Converter: -20°C ~60°C; Sensor: -30°C ~160°C				
Condition	11 28	Converter: 85%RH; Sensor: Water immersion workable, water depth				
	Humidity	<2m(sensor needs to be glue filling)				
Power	9\/~,36\/ DC/on	tional) or OFV - 2C4V AC(antional) or 2 CV lithium hattam (antional)				
Supply	ον -30ν DC(0μ	tional) or 85V~264V AC(optional) or 3.6V lithium battery(optional)				
Power	1.5W					
Consumption	1.300					

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Order Guide

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TUF2000F	Flan	ged Ultrasonic Flowmeter							
	W	Clamp	Clamp-on Mounted						
Converter	С	Insertion Mounted							
	G	Flange	Flange Mounted						
	Ν	Withou	Without heat meter function						
Heat Meter	Н	With h	With heat meter function						
		B1							
		B2	TM-1,	, standard medium size, magnetic, DN80 \sim DN400, -30 $^\circ\!$					
		В3	TL-1, standard large size, magnetic, DN450∼DN1000, -30℃∼90℃						
		B4	HTS-1 high-temp small size, DN32 \sim DN65, -30 $^{\circ}$ C \sim 160 $^{\circ}$ C						
Songer Type		B5	HTM-1 high-temp medium size, DN80 \sim DN400, -30 $^\circ\!$						
Sensor Type		B6	HTL-1 high-temp large size, DN450 \sim DN1000, -30 $^\circ$ C \sim 160 $^\circ$ C						
		C1	C1 TC-1 standard insertion-type, DN50∼DN1200, -30°C∼160°C						
		C2	TLC-2 extended insertion-type, DN80∼DN1500, -30°C ~160°C						
		N	No Probe (Only for G type flow meter)						
		Т	Customized (Card type or others)						
Nominal Diame	eter(m	m)	XXX	Repres	Represent actual diameter, for examples, DN50~050; DN100~100				
0			0	0 Carbon steel					
		1	1 Stainless Steel (not including 316/316L)						
Pinalina Mater	Dinalina Matarial		2	2 Cast Iron					
Pipeline Material 3		3	3 Glass Steel						
			4	PVC					
	5			Others					
Pressure				1.6	MPa(represent actual pressure, default ≦1.6MPa), high pressure needs to be noted				
				М	Pulse Output				
Output	Output		Е	4mA~	20mA DC				
				R8	RS485	output, Modbus protocol			
Power Supply				V1	24V DC				
				V2	220V AC				
				V3	3.6V lithium battery (For card type, dual channel flanged (DN50-DN150 nodular cast iron, DN150-DN300 carbon steel)]				
Sensor to Convertor Distance				xxx	m (default: 10-meter cables, 5 meter per cable; special cable (length requirement available, but longer than 100m(50m/cable) in not suggested except the flanged type)				
Whole Spec.	TUI	F2000F	-G-N-N	-100-0-	1.6-ER	8-V1-10			

Ordering Notes:

Measuring medium:	, Working Pressure	e:MPa, Temperature:	℃.
2. Flow range: Mini flow:	, Normal Flow:, M	ax. flow:, Nominal diameter:	(mm).
3. Mounting type:	, Output type:	, Supply power:	V.

4. Standard product is in single channel. For battery power supply, it has dual channels, please contact us for special requirements.

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