





Pipe



WALL MOUNTED ULTRASONIC FLOWMETER



| Features |

- Measurement accuracy 1%.
- Convertor protection class IP67, transducer protection class IP68.
- Wide measurement range, pipe size from DN15mm to DN6000mm.
- Three types installation method: wall mounted, DIN-rail mounted, explosion-proof box mounted.
- Connect the temperature transducer can finish the heat/energy measurement.

TUF-2000B Wal Mounted Ultrasonic Flowmeter

Introduction

TUF-2000B flowmeter can be virtually applied to a wide range of in long-term online measurement. Convertor protection class IP67, transducer protection class IP68. A variety of liquid applications can be accommodated:ultra-pure liquids, portable water, chemicals, raw sewage, reclaimed water, cooling water, river water, plant effluent.etc

| Measuring Diagram |

Flow Measurement Heat Measurement Features

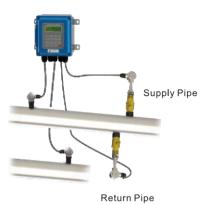




- No need to cut off water, no pressure loss.
- Connect clamp on temperature transducer,can finish the heat/energy measurement.
- Easy for installation.

Return Pipe





- No need to cut off water, no pressure loss.
- Stable and reliable for long term operation.
- Connect Pt100 temperature transducer, can finish the heat/energy measurement.







- Need to cut off pipe
- With high accuracy and stability
- Connect Pt100 temperature transducer, can finish the heat/energy measurement

TUF-2000B Wa I Mounted Ultrasonic Flowmeter

| Optional Transducers |

Please choose the suitable transducer, according to different liquid pipe condition and installation method, (please refer to the measuring diagram).

Types	Picture	Spec.	Model	Measurement Range	Temperature	Dimensio	n
Clamp on		Small Size	TS-2	DN25~DN100	-30~90℃	45×25×32mm	
		Medium Size	TM-1	DN50~DN700	-30~90℃	64×39×44mm	
		Large Size	TL-1	DN300~DN6000	-30~90℃	97×54×53mm	
High temp	99	Small Size	TS-2-HT	DN25~DN100	-30~160℃	45×25×32mm	
	*	Medium Size	TM-1-HT	DN50~DN700	-30~160℃	64×39×44mm	
		Large Size	TL-1-HT	DN300~DN6000	-30~160℃	97×54×53mm	
Insertion	400	Standard	TC-1	DN80~DN6000	-30~160℃	190×80×55mm	
		Lengthen	TC-2	DN80~DN6000	-30~160℃	335×80×55mm	
Pipe	216	π type	G1	DN15~DN32	-30~160℃	SUS304 thread connection	Please refer to
	A	Standard	G2	DN40~DN1000	-30~160℃	carbon steel thread connection	detailed pipe dimensions

| Optional Temperature Transducers |

Connect the temperature transducer can finish the heat/energy measurement

Picture	Specification	Model	Meas. Range	Temperature	Cut of water	Accuracy
98	Clamp on temperature Transducer Pt100	CT-1	>DN50	-40~160℃	No	100℃ ± 0.8℃
	Insertion temperature Transducer Pt100	TCT-1	>DN50	-40~160℃	Yes	
-	Insertion Pt100 Installation with pressure	PCT-1	>DN50	-40~160℃	No	
0	Insertion Pt100 Small size pipe diameter	SCT-1	< DN50	-40~160℃	Yes	

| Optional SD card memory |

Convenience for long-term and large data storage. Available to do the data processing like tabulation, statistical, data analysis, printing reports and production flow curve by using data analysis software.

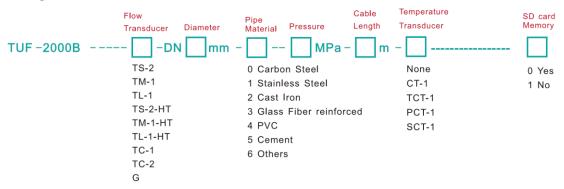


TUF-2000B Wal Mounted Ultrasonic Flowmeter

Datasheet |

Items	Performance & Parameter					
	Principle	Transit-time ultrasonic flowmeter				
	Accuracy	± 1%				
	Display	2 imes 20 character LCD with backlight, support the language of Chinese, English, Italy, Turkish				
Convertor	Signal Output	1 way 4~20mA output, electric resistance 0~1K,accuracy0. 1%				
		1 way OCT pulse output (Pulse width ~1000ms, default is 200ms)				
		1 way Relay output				
	Signal Input	3 way 4~20mA input, accuracy 0. 1%, acquisition signal such as temperature, press and liquid level				
		Connect the temperature transducer Pt100, can finish the heat/energy measurement				
	Data Interface	Insulate Rs485 serial interface, upgrade the flowmeter software by computer, support the MODBUS				
Special Cable	Twisted-pair cable, generally, the length under 50 meters; Select the RS485, transmission distance can over 1000m					
	Pipe Material	Steel, Stainless steel, Cast iron, Copper, Cement pipe, PVC, Aluminum, Glass steel product, liner is allowed				
Pipe Installation Condition	Pipe Diameter	25~6000mm				
Condition	Straight Pipe	Transducer installation should be satisfied: upstream10D, downstream 5D, 30D from the pump				
Measuring Medium	Type of Liquid	Single liquid can transmit sound wave, such as Water (hot water, chilled water, city water, sea water, waste water, etc.); Sewage with small particle content; Oil (crude oil, lubricating oil, diesel oil, fuel oil, etc.); Chemicals (alcohol, etc.); Plant effluent; Beverage; Ultra-pure liquids, etc.				
	Temperature	-30~160℃				
	Turbidity	No more than 10000ppm and less bubble				
	Flowrate	0~±7m/s				
Working Environment	Temperature	Convertor: -20~60℃; Flow Transducer: -30~160℃				
	Humidity	Convertor: 85% RH; Flow Transducer: can measure under water, water depth≤2m(tansducer sealed glue)				
Power Supply	Dc8~36V or Ac85~264V(optional)					
Power Consumption	1. 5W					
Dimension	132*150*85 mm(convertor)					

| Ordering Code |



Example TUF-2000B+TM-1+DN300+0+1.6MPa+10m+PCT-1+0

 $PS: \ Standard \ confirguration = TUF-2000B(convertor) + TM-1 + 5M \ cable \ + Steel \ belt(DN200) \ + Couplant(1\ pc)$

