



Pipe

# WALL MOUNTED **ULTRASONIC FLOWMETER**



#### I Features I

- · 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.





# putted Ultrasonic Flowmeter

#### **I** 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

### I Measuring Diagram I



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



- 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

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# **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	Dimension	
Clamp on		Small Size	TS-2	DN25- DN100	—30 90°C	45 x 25 x 32mm	
		Medium Size	TM-1	DN50 DN700	—30 90°C	64 x 39 x 44mm	
		Large Size	TL-1	DN300 DN 6000	—30 -90°C	97 x 54 x 53mm	
High temp	1	Sm all Size	Ts-2- HT	DN25 DN100	-30 160°C	45 x 25 x 32mm	
		Medium Size	TM-1- HT	DN50 DN700	-30 160°C	64 x 39 x 44mm	
		Large Size	TL-1-HT	DN300 DN 6000	-30 160°C	97 x 54 x 53mm	
Insertion	4	Stand ard	TC-1	DN80-DN6000	-30 160°C	190 x 80 x 55mm	
	a training	Lengthen	Tc-2	DN80 DN6000	-30 160°C	335 x 80 x 55mm	
Pipe	216	x type	G1	DN15 DN32	-30-160°C	SUS304 thread connection	Please refer to
		Stand ard	G2	DN40-DN1000	-30 160°C	carbon steel thread connection	detailed pipe dimensions

### I Optional Temperature Transducers I

Connect the temperature transducer can finish the h eat/energy measurement

Picture	Specification	Model	Meas. Range	Temperature	Cut of water	Accuracy
*	Clamp on temperature Transducer Pt100	CT—1	&DN50	40-160"C	No	
	Insertion temperature Transducer Pt100	TCT-1	@DN50	<del></del> 40-1606	Yes	100°C + 0.8°C
	Insertion Pt100 Installation with pressure	PCT—1	@DN50	40 160°C	No	
O	Insertion Pt100 Small size pipe diameter	SCT—1	< DN50	—40 160°C	Yes	

### Optional SD card memory

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



-CI SD card optional

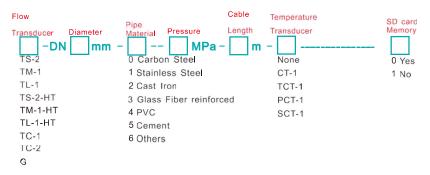


# **Wall Mounted Ultrasonic Flowmeter**

## Datasheet

Items	Performance & Parameter					
Convertor	Principle	Transit-time ultrasonic flowmeter				
	Accuracy	±1%				
	Display	$2 \times 20$ character LCD with backlight, support the language of Chinese, English, Italy, Turkish				
	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	3 way 4~20mA input, accuracy 0. 1% - acquisition signal such as temperature, press and liquid level				
	Input	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 Installation Condition	Pipe Material	Steel, Stainless steel, Cast iron, Copper, Cement pipe, PVC, Aluminum, Glass steel product, liner is allow				
	Pipe Diameter	1 <sub>5~6000mm</sub>				
	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;				
	Temperature	-30~160℃				
	Turbidity	No more than 10000ppm and less bubble				
	Flowrate	0~±7m/s				
Working Environment	Temperature	Convertor: -20~60°C; Flow Transducer: -30~160°C				
	Humidity	Convertor: 85% RH				
Power Supply	Dc8~36V or Ac85~264V(optional)					
Power Consumption	1.5W					
Dimension	132*150*85 mm(convertor)					

# Ordering Code



Example 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)