

Wall Mount TUF-2000B

Introduction

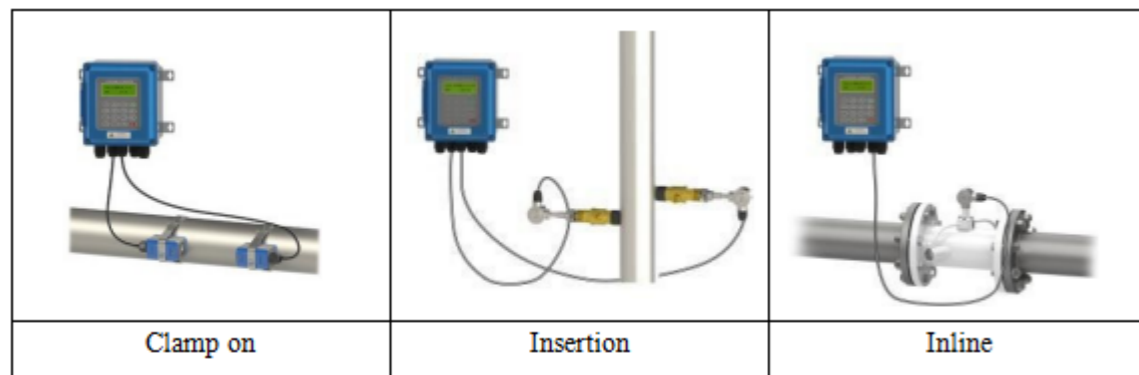
TUF-2000B flowmeter can be virtually applied to a wide range of in long-term online measurement. Converter protection class IP67, transducer protection class IP68. A variety of liquid applications can be accommodated: ultra-pure liquids, portable water, chemicals, raw sewage, reclaimed water, cooling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



Features

- Measurement accuracy 1 %.
- Converter 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.

Separated Mounting



Liquid Type

Flow transducer	Picture	Model	Measuring range	Temperature	Dimension
Clamp on		TS-2 (small)	DN25-100	-30 ~ 90°C	45×25×32mm
		TM-1 (medium)	DN50-700		64×39×44mm
		TL-1 (large)	DN300-6000		97×54×53mm
High temp. Clamp on		TS-2-HT (small)	DN25-100	-30 ~ 160°C	45×25×32mm
		TM-1-HT (medium)	DN50-700		64×39×44mm
		TL-1-HT (large)	DN300-6000		97×54×53mm
Insertion		TC-1 (standard)	DN80-6000	-30 ~ 160°C	190×80×55mm
		TC-2 (extended)			33 330×80×55mm
Pipe		π type (G1)	DN15-32	-30 ~ 160°C	SUS304 thread connection
		Standard (G2)	DN40-1000	-30 ~ 160°C	Carbon Steel thread connection

Temperature transducer	Picture	Model	Measuring range	Temperature	Cut of water	Accuracy
Clamp on		CT-1	DN50-6000	-40 ~ 160°C	No need	100°C ± 0.8°C
Insertion		TCT-1	DN50-6000	-40 ~ 160°C	Need	
Insertion under pressure		PCT-1	DN50-6000	-40 ~ 160°C	No need	
Insertion small sizes		SCT-1	< DN50	-40 ~ 160°C	Need	

Data sheet

Items	Performance & Parameter	
Convertor	Principle	Transit-time ultrasonic flow meter
	Accuracy	±1%
	Display	2X20 character LCD with backlight, support the language of Chinese, English, Italy, Turkish
	Signal Output	1 way 4~20mA output, electric resistance 0~1K, accuracy 0.1%
		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 flow meter 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 allowed
	Pipe Diameter	25~6000mm
	Straight Pipe	Transducer installation should be satisfied: up stream 10D, 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°C
	Turbidity	No more than 10000ppm and less bubble
	Flow rate	0~±7m/s
Working Environment	Temperature	Convertor: -20~60° C; Flow Transducer: -30~160° C
	Humidity	Convertor: 85% RH; Flow Transducer: can measure under water, water depthW2m(transducer sealed glue)
Power Supply	Dc8~36V or Ac85~264V (optional)	
Power Consumption	1.5W	
Dimension	132*150*85 mm(convertor)	

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.

| Ordering Code |

Flow Transducer	Diameter	Pipe Material	Pressure	Cable Length	Temperature Transducer	SD card Memory
TUF-2000B	DN	mm	MPa	m		
TS-2		0 Carbon Steel			None	0 Yes
TM-1		1 Stainless Steel			CT-1	1 No
TL-1		2 Cast Iron			TCT-1	
TS-2-HT		3 Glass Fiber reinforced			PCT-1	
TM-1-HT		4 PVC			SCT-1	
TL-1-HT		5 Cement				
TC-1		6 Others				
TC-2						
G						

Example TUF-2000B+TM-1+DN300+0+1.6MPa+10m+PCT-1+0
 PS: Standard configuration= TUF-2000B(convertor)+TM-1+5M cable +Steel belt(DN200) +Couplant(1 pc)