

| Features |

- High Accuracy
 - Better than $\pm 1\%$
- Wide Measuring Range

Several types transducer for selection, pipe size from Dn15mm to Dn6000mm

• High Reliability

Adopt low voltage, multi-pulse technology to improve accuracy, useful life and reliability.

• Strong Anti-interference

Dual-balance signal differential receiver/driver circuit to avoid interference of converter, TV tower, high voltage line etc.

Powerful Recording Function

Automatically record the following data:

- 1. The totalizer data of the last 512 days/128 months/10 years
- 2. The time and corresponding flow rate of the last 64 times of power on and off events
- 3. The working status of the last 32 days
- Far transmission distance, easy for networking

RS485 support wireless network, connect GPRS module to accomplish wireless transmission.

• Support Heat Measurement

Connect the temperature transducer, can finish the heat/energy measurement

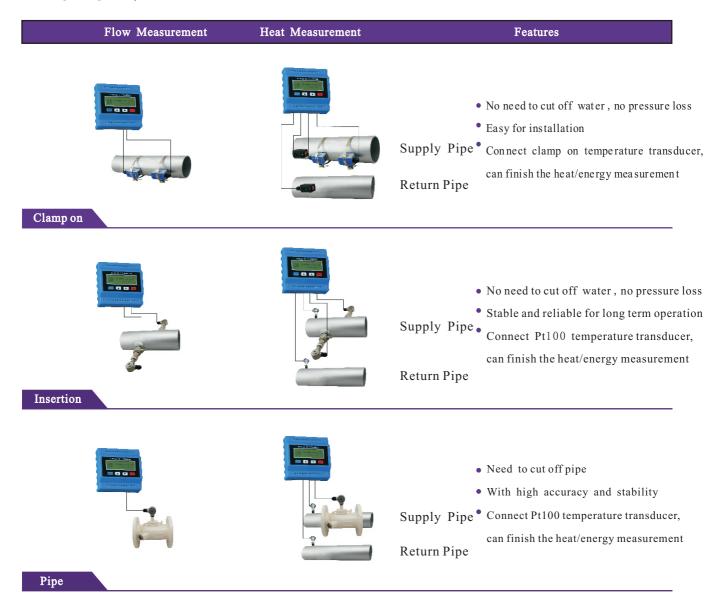
TUF-2000M

Ultrasonic Flow Module/RTU

| Liquid Type |

This flowmeter can be virtually applied to a wide range of measurement. A variety of liquid applications can be accommodated: ultra-pure liquids, potable water, chemicals, raw sewage, reclaimed water, cooling water, river water, plant effluent. etc

| Measuring Diagram |



Applications



Ultrasonic Flow Module/RTU

Optional Transducers

Types	Picture	Specification	Model	Measurement Range	Temperature	Dimension	
Clamp on		Small Size	TS-2	DN30~DN100	-30 [~] 90°C	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 Clamp on		Small Size	TS-2-HT	DN30~DN100	-30 [~] 160°C	45×25×32mm	
		Medium Size	TM-1-HT	DN50~DN700	-30 [~] 160°C	64×39×44mm	
		Large Size	TL-1-HT	DN300~DN6000	-30 [~] 160°C	97×54×53mm	
Insertion		Standard	TC-1	DN80~DN6000	-30 [~] 160°C	190×80×55mm	
		Lengthen	TC-2	DN80~DN6000	-30 [~] 160°C	335×80×55mm	
Pipe		π type	G3	DN15°DN25 -30°160		Pls refer to	
		Standard	G2	DN32/DN40	-30 [~] 160°C	detailed pipe dimensions	
		Standard	G1	DN50~DN6000	-30 [~] 160°C		

Optional Temperature Transducers

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	-40 [~] 160°C	Yes	100°C ±0.8°C
	Insertion Pt100 Installation with pressure	PCT-1	≥DN50	-40 [~] 160°C	No	
	Insertion Pt100 Small size pipe diameter	SCT-1	<dn50< td=""><td>-40[~]160°C</td><td>Yes</td><td></td></dn50<>	-40 [~] 160°C	Yes	

| Parts Descriptions |

Front View Wiring Dragram Back View



Dimensions: 92×90×34mmLCD Display: 60×19mm

• 4 keyboard operation





• Installation Method: Guide Rail(width is 35mm)

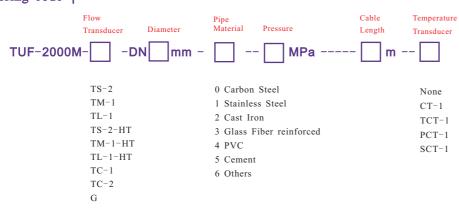
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| Datasheet |

Items	Performance & Parameter					
Convertor	Principle	Transit-time ultrasonic flowmeter				
	Accuracy	土1%				
	Operation	4 keyboards operation				
	Signal Output	1 way 4~20mA output, electric resistance 0~1K, accuracy0. 1%				
		1 way OCT pulse output (Pulse width 6~1000ms, 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 Installation Condition	Pipe Material	Steel, Stainless steel, Cast iron, Copper, Cement pipe, PVC, Aluminum, Glass steel product, liner is allowed				
	Pipe Diameter	er 15~6000mm				
	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°C				
	Turbidity	No more than 10000ppm and less bubble				
	Flowrate	$0^{\sim}\pm7\mathrm{m/s}$				
Working Environment	Temperature	Convertor: -20 [~] 60°C; Flow Transducer: -30 [~] 160°C				
	Humidity	Convertor: 85%RH; Flow Transducer: can measure under water, water depth≤2m (tansducer sealed glue)				
Power Supply	DC8~36V or AC10~30V					
Power consumrtion	1. 5W					
Dimension	95*95*35MM(Convertor)					

Ordering code



 $Example \colon TUF - 2000M + TM - 1 + DN300 + 0 + 1 \:.\: 6MPa + 10m + PCT - 1$

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