TUF-2000M Ultrasonic Flow Module/RTU



| Features |

- High Accuracy Better than ±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 .

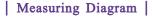
• Support Heat Measurement

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

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





TUF-2000M

Ultrasonic Flow Module/RTU

Optional Transducers

Types	Picture	Specification	Model	Measurement Range	Temperature	Dimension	
Clamp on		Small Size	TS-2	DN15 [~] 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 Clamp on	*	Small Size	TS-2-HT	DN15 [~] 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		Standard	TC-1	DN80 [~] DN6000	-30 [~] 160℃	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℃	detailed pipe dimensions	
	i i	Standard	G1	DN50 [~] DN6000	-30 [~] 160℃		

Optional Temperature Transducers

Picture	Specification	Model	Meas. Range	Temperature	Cut of water	Accuracy
	Clamp on temperature Transducer Pt100	CT-1	≥DN50	-40 [~] 160℃	No	
	Insertion temperature Transducer Pt100	TCT-1	≥DN50	-40 [~] 160℃	Yes	100℃±0.8℃
	Insertion Pt100 Installation with pressure	PCT-1	≥DN50	-40 [~] 160℃	No	
\bigcirc	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
	TX2 T2 SND T1 TX1 A15 A14 A13 OCTI- OCTI- RLY- RLY- 24V+ 24V- 485- 485- AO·N AO UP- UP- GND DN- DN- GND	
• Dimensions: 92×90×34mm		• Installation Method:
• LCD Display: 60×19mm		Guide Rail(width is 35mm)

• 4 keyboard operation

Guide Rail(width is 35mm)

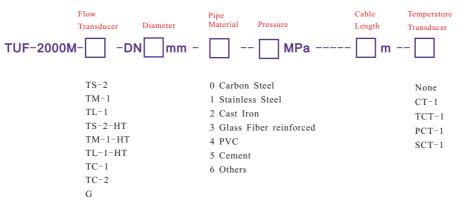
TUF-2000M

Ultrasonic Flow Module/RTU

Datasheet

Items	Performance & Parameter				
Convertor	Principle	Transit-time ultrasonic flowmeter			
	Accuracy	±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				
Dine	Pipe Material	Steel, Stainless steel, Cast iron, Copper, Cement pipe, PVC, Aluminum, Glass steel product, liner is allowed			
Pipe Installation	Pipe Diameter	15 [~] 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°C			
	Turbidity	No more than 10000ppm and less bubble			
	Flowrate	0~±7m/s			
Working Environment	Temperature	Convertor: $-20^{\circ}60^{\circ}C$; Flow Transducer: $-30^{\circ}160^{\circ}C$			
	Humidity	Convertor: 85%RH; Flow Transducer: can measure under water, water depth $\leq 2m$ (tansducer sealed glue)			
Power Supply	DC8~36V c	DC8~36V or AC10~30V			
Power consumrtion	1.5W	1. 5W			
Dimension	95*95*35MM(Convertor)				

Ordering code



V-4

sales@ecefast.co.nz www.ecefast.co.nz toll free:0800 323 327

_ _ _ _ _ _ _ _ _ _ _ _ _