

TUF-2000H Handheld Ultrasonic Flowmeter

| Datasheet |

Items		Performance & Parameter
Convertor	Principle	Transit-time ultrasonic flowmeter
	Accuracy	$\pm 1\%$
	Display	4×16 character LCD with backlight, support the language of Chinese, English and Italy
	Data Interface	Insulate Rs232 serial interface, upgrade the flowmeter software by computer
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: 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~±10m/s
Working Environment	Temperature	Convertor: -20~60℃; Flow Transducer: -30~160℃
	Humidity	Convertor: 85%RH; Flow Transducer: Ip67
Power Supply	3 AAA built-in Ni-MH batteries 1.2V(for over 12 hours of operation). 90V-260V AC adapter	
Power Consumption	1.5W	
Case Material	ABS	
Dimension	200*93*32MM(Convertor)	

| Ordering Code |

TUF-2000H - Optional Transducer - Cable length

5 5m×2(Standard)

10 10m×2

Example: TUF -2000H+HM++10m

PS: Standard configuration = TUF -2000H1(convertor)+TM-1+5M*2 cable +Stretcher+ Carrying case+Ruler

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TUF-2000B Wall Mounted Ultrasonic Flowmeter

| Datasheet |

Items		Performance & Parameter
Convertor	Principle	Transit-time ultrasonic flowmeter
	Accuracy	± 1%
	Display	2×20 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 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	25~6000mm
	Straight Pipe	Transducer installation should be satisfied: upstream 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℃
	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 (transducer sealed glue)
Power Supply	Dc8~36V or Ac85~264V (optional)	
Power Consumption	1.5W	
Dimension	132*150*85 mm (convertor)	

| 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)

TUF-2000S Fixed Separated Ultrasonic Flowmeter

| Datasheet |

Items		Performance & Parameter
Convertor	Principle	Transit-time ultrasonic flowmeter
	Accuracy	$\pm 1\%$
	Display	2×20 character LCD with backlight, support the language of Chinese, English and Italy
	Signal Output	1 way 4~20mA output, electric resistance 0~1K, accuracy 0.1%
		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	25~6000mm
	Straight Pipe	Transducer installation should be satisfied: upstream 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
	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 (transducer sealed glue)
Power Supply	DC8~36V or AC85~264V (optional)	
Power Consumption	1.5W	
Dimension	170*180*56cm(convertor)	

| Ordering Code |

Convertor	Flow Transducer	Diameter	Pipe Material	Pressure	Cable Length	Temperature Transducer	SD card Memory
TUF-2000S ☐	----- ☐ -DN	☐ mm	- ☐ -- ☐ MPa	- ☐ m	- ☐ -----	☐	☐
W	TS-2		0 Carbon Steel			None	0 Yes
S	TM-1		1 Stainless Steel			CT-1	1 No
D	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-2000SW+TM-1+DN300+0+1.6MPa+10m+PCT-1+0

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

| Datasheet |

Items		Performance & Parameter	
Converter	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 width6~1000ms, 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	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℃	
	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 AC10~30V		
Power consumrtion	1. 5W		
Dimension	95*95*35MM(Convertor)		

| Ordering code |

Flow Transducer	Diameter	Pipe Material	Pressure	Cable Length	Temperature Transducer
TUF-2000M-	-DN	-	--	-----	--
TS-2		0 Carbon Steel			None
TM-1		1 Stainless Steel			CT-1
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-2000M+TM-1+DN300+0+1.6MPa+10m+PCT-1

PS: Standard configuration = TUF-2000M(converter)+TM-1+5M cable +Steel belt (DN200)