

| Features |

· High Accuracy measuring

Accuracy: ±1%

Wide measuring range

Several types of transducers for selection, measuring pipe size from DN15mm to DN6000mm

· Large capacity battery

Built-in rechargeable Ni-MH battery, provide over 12 hours of continuous operation

- Built-in printer
 Available to print data in real time, also available to timed print over 20 pre-set measuring results
- Data storage

Store over 20 pre-set measuring results to SD card, make it easy to data analysis and statistics

Rs485 communication interface

Upload the parameters and measuring results to computer

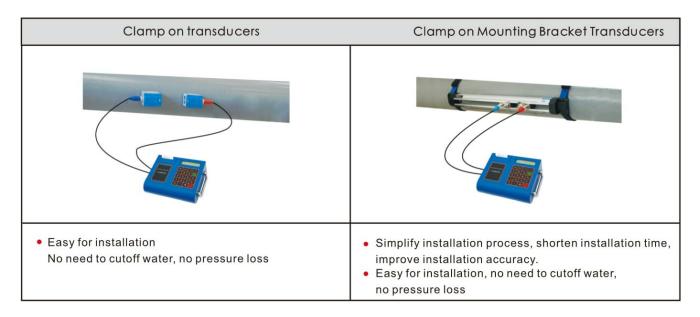
Various input and output signal

Output signal: 4-20mA, pulse signal, relay signal

Input signal: 3 way 4-20mA

TUF-2000P Portable Ultrasonic Flow Meter

| Measuring Diagram |

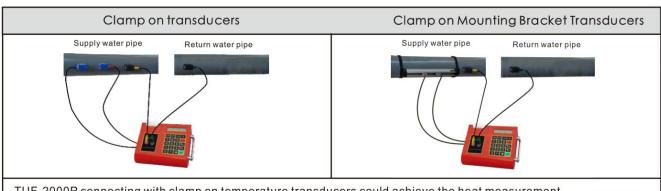


Optional Transducers

Types	Picture	Spec.	Model	Measurement Range	Temperature	Dimension
Clamp on		Small Size	TS-2	DN15~DN100	-30~90℃	45×25×32mm
	100	Medium Size	TM-1	DN50~DN700	-30~90℃	64×39×44mm
		Large Size	TL-1	DN300~DN6000	-30~90℃	97×54×53mm
High temperature clamp on	8	Small Size	TS-2-HT	DN15~DN100	-30~160℃	45×25×32mm
	8	Medium Size	TM-1-HT	DN50~DN700	-30~160℃	64×39×44mm
		Large Size	TL-1-HT	DN300~DN6000	-30~160℃	97×54×53mm
Mounting Bracket Clamp on		Small Size	HS	DN15~DN100	-30~90℃	318×59×85mm
	A de la constantina della cons	Medium Size	НМ	DN100~DN300	-30~90℃	568×59×85mm
		Extended	EB-1	DN300~DN700	-30~90℃	188×59×49mm
High Temperature Mounting Bracket Clamp on		Small Size	HS-HT	DN15~DN100	30~160℃	318×59×110mm
		Medium Size	НМ-НТ	DN100~DN300	30~160℃	568×59×110mm
	•	Extended	EB-1-HT	DN300~DN700	30~160℃	188×59×49mm

TUF-2000P Portable Ultrasonic Flow Meter

| Heat Measuring Diagram |



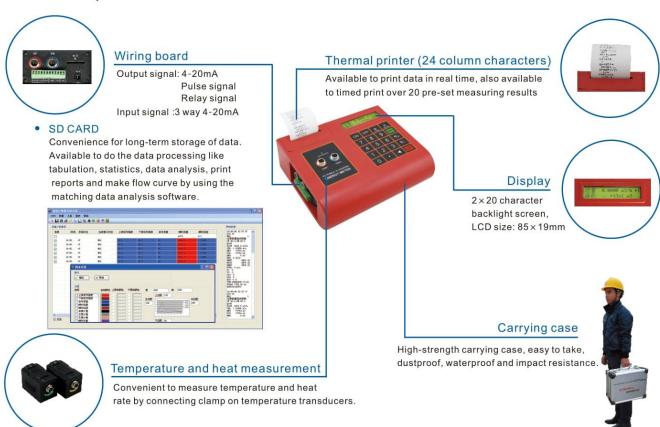
TUF-2000P connecting with clamp on temperature transducers could achieve the heat measurement.

- Typical application
 - Thermal power plant
 - · Air conditioning refrigeration
- Heating companies
- Energy conservation and emission reduction
- · Heat exchange station

Optional temperature transducers

Picture	Types	Model	Measurement Range	Temperature	Cutoff water	Accuracy
99	Clamp on temperature transducer PT100	CT-1	>DN50	-40-160℃	No	100℃±0.8℃

| Parts Description |



TUF-2000P Portable Ultrasonic Flow Meter

| 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 and Italian				
	Signal Output	1 way 4-20mA output, electric resistance 0~1K, accuracy 0.1%				
		1 way OCT pulse output(Pulse width 6~1000ms, the default value is 200ms)				
		1 way relay output				
	Signal Input	3 way 4-20mA input, accuracy 0.1%, acquire signals such as temperature, press and liquid level				
		Achieve to heat measurement by connecting the temperature transducer PT100.				
	Data Interface	Insulate RS485 serial interface, upgrade the flowmeter software by computer, support MODE				
	Data Record	Thermal printer, external SD card(2G of capacity)				
Pipe	Material	Steel, Stainless steel, Cast iron, Copper, Cement pipe, PVC, Aluminum, Glass steel product, liner is allowed.				
Installation	Diameter	15~6000mm				
Condition	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 partical 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	Less than 10000ppm and little bubble				
	Flowrate	0~±10m/s				
Working Environment	Temperature	Convertor: -20~60℃; Transducer: -30~160℃				
	Humidity	Convertor: 85%RH; Transducer protection level: IP67				
Power Supply	8 built-in Ni-MH batteries 1.2V(for over 20 hours of operation). Could operate 8 hours by connecting 4-20mA signal output. 90V - 260V AC adapter					
Power Consumption	1. 5W					

| Ordering Code |



Example: TUF-2000P-HS, HM, TL-1-5-N-N

Explanation: portable ultrasonic flow meter+small size mounting bracket transducer+ medium size mounting bracket transducer+ large size clamp on transducer+ 2×5M cable, no heat measurement, no 4-20mA signal output