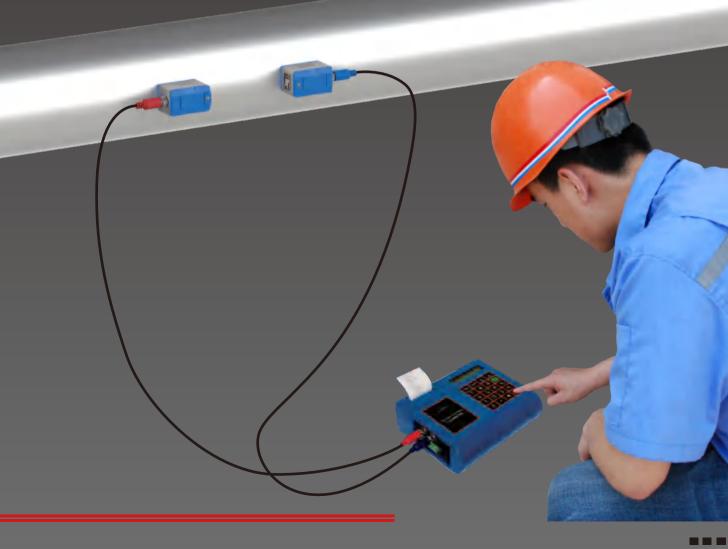


ETUF-2000P

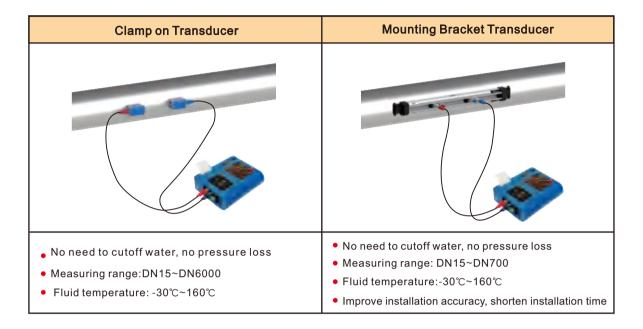
Portable Ultrasonic Flow Meter

ETUF-2000P Portable ultrasonic flow meter realizes the non- contact measurement. It is ideal for flow surveys and closed-pipe application where non-invasive measurement of liquids is required. Built-in SD card and printer can timely or regularly print pre-set measuring results.

Temperature and heat can also be measured by connecting clamp on temperature transducer. Widely be used in water supply, heat supply, chemical industry, machinery and energy resources.



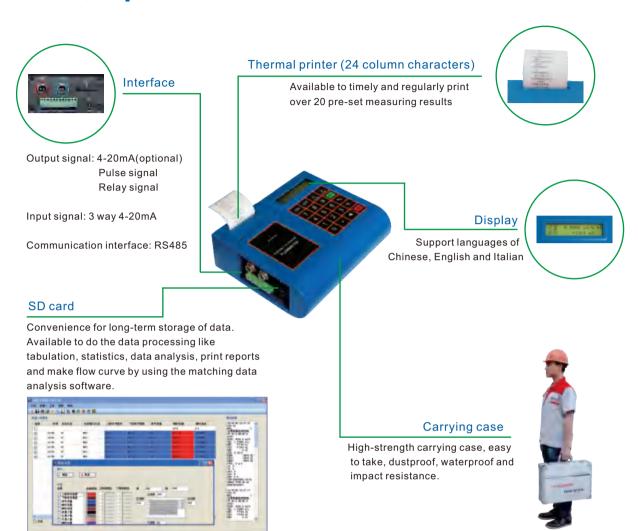
Measuring Diagram



Optional transducers

Types	Picture	Spec.	Model	Measurement Range	Temp.	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 temperature 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
Mounting Bracket Clamp on	100	Small Size	HS	DN15~DN100	-30~90℃	318×59×85mm
	-	Medium Size	НМ	DN50~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	HM-HT	DN50~DN300	-30~160℃	568×59×110mm
	•	Extended	EB-1-HT	DN300~DN700	-30~160℃	188×59×49mm

Parts Description



Size and Fittings



Mounting bracket transducer

Size of carrying case: length \times width \times height $615 \times 420 \times 130$ mm



Clamp on transducer

Size of carrying case: length \times width \times height $470 \times 350 \times 130$ mm

Data sheet

Items	Performance & Parameter				
Flow meter	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,, acquire signals such as temperature, press and liquid level.			
		Achieve to heat measurement by connecting the temperature transducer PT100.			
	Data Interface	RS485 serial interface, upgrade the flowmeter software by computer, support MODBU			
	Data Record	Thermal printer, external SD card(2G of capacity)			
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			
Measuring Medium	Straight Pipe	Transducer installation should be satisfied: upstream 10D, downstream 5D, 30D from the			
	Type of Liquid	Single liquid can transmit sound wave, such as water, sewage, oil, chemicals, plant effluent, beverage, ultra-pure liquids, etc.			
	Temperature	−30~160℃			
	Turbidity	Less than 10000ppm and little bubble			
	Flowrate	0~±10m/s			
Working Environmen	Temperature	Convertor: -20~60; Transducer: -30~160			
	Humidity	Convertor: 85%RH; Transducerl 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				

Model selection code

ETUF-2000P optional transducers cable length output (you may choose more than one options) TS-2 standard small size $5 \text{ 5m} \times 2 \text{ (standard)}$ N no output TM-1 standard medium size 1 4-20mA output 10 10 m × 2 TL-1 standard large size TS-2-HT high temperature small size TM-1-HT high temperature medium size TL -1-HT high temperature large size HS smallsize mounting bracket НМ medium size mounting bracket 9 EB-1 extended mounting bracket 10 HS-HT high temperature small size mounting bracket HM-HT high temperature medium size mounting bracket 12 EB-1-HT high temperature extended mounting bracket

Example: ETUF-2000P-1, 2, 3 - 5 - N

Explanation: portable ultrasonic flow meter, small size clamp on transducer, medium size clamp on transducer, large size clamp on transducer, cable length 5m×2, no 4-20mA output

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