



Feature

- High Accuracy
 Accuracy better than 1%.
- Wide Measurement Range
 Measurement range from DN25~DN1000mm
- Rechargeable Power Supply
 Built-in high-capacity NiMH rechargeable batteries can work 20 hours(Fully charged).
- Non invasion measurement
 Can achieve measurement with clamp on sensors
- Data Storage
 32K BIT built-in data storage,can store two thousand rows of data
- LCD display
 LCD dispaly can display the instant flow,totoal flow,flow velocity and working condition



Model ATTUF-2000 Series

Product Introdcution

the handheld ultrasonic flow meter

is designed to work with clamp-on transducers to enable the flow of a liquid within a closed pipe to be measured accurately without needing to insert any mechanical parts through the pipe wall or protrude into the flow system.

Using ultrasonic transit time techniques, the PHILEMON-H is controlled by a micro-processor system which contains a wide range of data that enables it to be used with pipes with an outside diameter ranging from 15mm up to 6000mm (depending on model) and constructed of almost any material. The instrument will also operate over a wide range of fluid temperatures.



Clamp on transducer

- Easy to install and no need to cut off the flow, no pressure loss
- Different transducer from DN25~DN1000
- Different transducer for temperature -30~160℃



- Reduces installation time, improve installation accuracy Easy installation, no need cut the flow , no pressure loss
- · Easy to install and no need to cut off the flow, no pressure loss
- Different transducer from DN25~DN700
- Different transducer for temperature 30~160℃

Application

Water supply



Supply heating



Building Energy Conservation



Metallurgy



Petroleum &Chemical

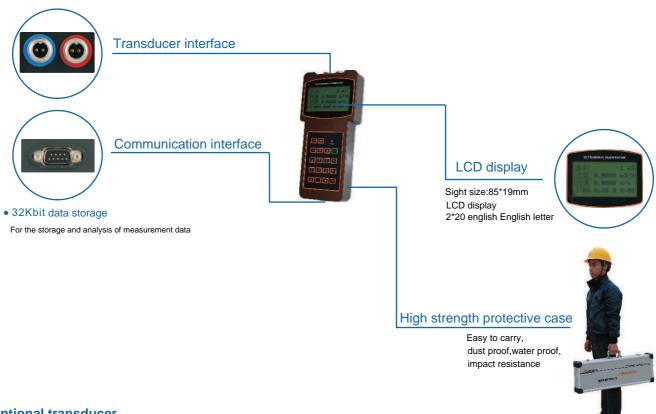


Power plant





The main components feature



Optional transducer

Туре	Picture	Size	Model	Measuring range	Temperature	Dimension
Standard Clamp on Type	de	Small	TS-2	DN25~DN80	-30~90℃	45×25×32mm
		Medium	TM-1	DN80~DN450	-30~90℃	64×39×44mm
	36	Large	TL-1	DN450~DN1000	-30~90℃	97×54×53mm
High Temperature Clamp on Type	%	Small	TS-2-HT	DN25~DN80	-30~160℃	45×25×32mm
		Medium	TM-1-HT	DN80~DN450	-30~160℃	64×39×44mm
	600	Large	TL-1-HT	DN450~DN1000	-30~160℃	97×54×53mm
Standard Bracket Type	5	Small	HS	DN32~DN80	-30~90℃	318×59×85mm
	Salah 3	Medium	НМ	DN80~DN300	-30~90℃	568×59×85mm
	5	Large	EB-1	DN300~DN700	-30~90℃	188×59×49mm
High Temperature Bracket Type	S. L.	Small	HS-HT	DN32~DN80	-30~160℃	318×59×110mm
		Medium	HM-HT	DN80~DN300	-30~160℃	568×59×110mm
	5	Large	EB-1-HT	DN300~DN700	-30~160℃	188×59×49mm

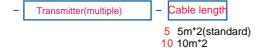


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Basic technical parameters

Туре		Performance perameter		
Transmitter	Principle	Ultrasonic transit-time principle,Four-byte IEEE754 floating-point arithmetic		
	Accuracy	Flow:Better than ±1%		
	Display	LCD display with Chinese, English, Italian language		
	Output	One OCT pule output(pules width 6-1000ms, Default 200ms)		
	Data interface	Isolation of 232 communication interface, can upgrade flowmeter through PC		
Pipeline Conditions	Pipe Material	Steel,Stainless steel,Cast iron,copper,PVC,aluminium,FRP etc.(liner allowed)		
	Diameter	15~6000mm		
	Installation	Upstream 10D,downstream 5D,30D away from the pump outlet(D for diameter)		
Medium	Fluid	Water,sea water,acid liquid,beer,alcohol,oil and any other liquid that can spread sonic		
	Temperature	Temperature:-30~160 ℃		
	Turbidity	10000ppm and with little bubbles		
	Velocity	0~±10m/s		
Operating Environment	Temperature	Transmitter:-20~60℃;Transducer:-30~160℃		
	Humidity	Transmitter:85%RH;transmitter protection grade:IP67		
Power	Three internal 1.2V,2000mAH rechargeable Ni-MH battery.Can work 12 hours fully charged. Can achieve continuous measurement with AC90~260V power adapter			
Comsumption	1.5W			
Case Material	Flame retardant ABS			
Weight	Transmitter:390g			

Model Selection



Example:

Explanation: Handheld ultrasonic flowmeter with HS,HM,TL-1 transmitter,5*2 cable