Handheld Ultrasonic Flow Meter

Catalogo

POS   0 m3
Flow 0.0000 m3/h
Vel 0.0000 m/s
S=000,000 Q=00 I

ULTRASONIC FLOWMETER

ON OFF   CHARGE

7 8 9 MENU
4 5 6 ▲/+
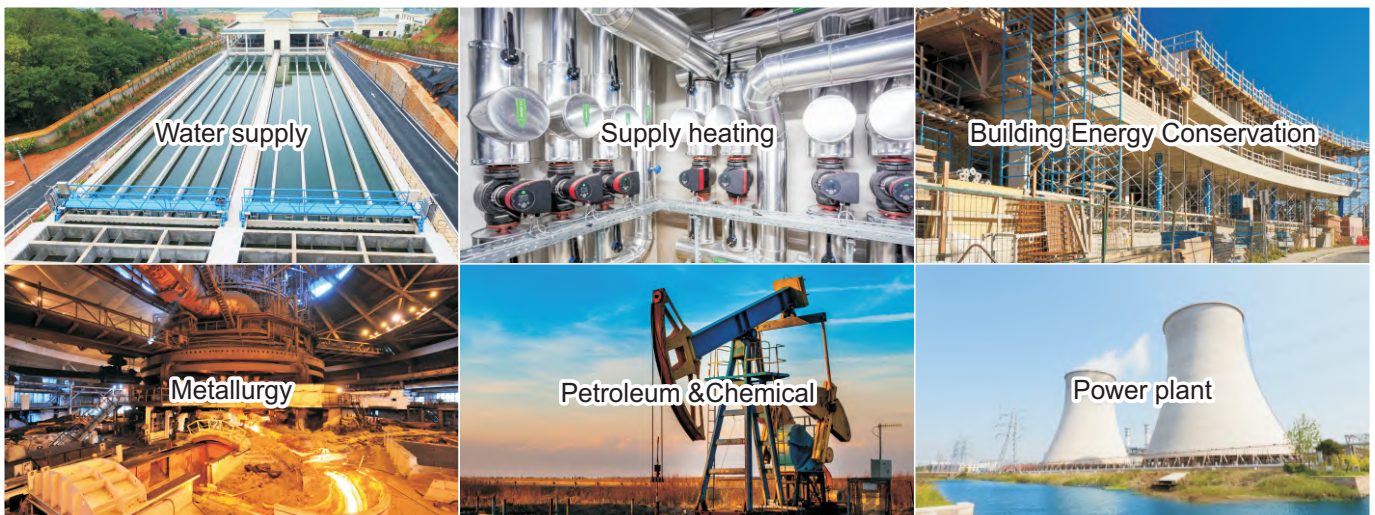1 2 3 ▼/-
0 • ◄ ENT

SMERI

Overview

The ultrasonic flow meter, can be used for nearly any liquid from water, sewer water, petrol chemicals, metallurgy, electric power plant coolant flow, irrigation, city water, energy monitoring, the meter can indicate flow velocity, flow rate, total flow for nearly any fluid.

Application

Water supply

Supply heating

Building Energy Conservation
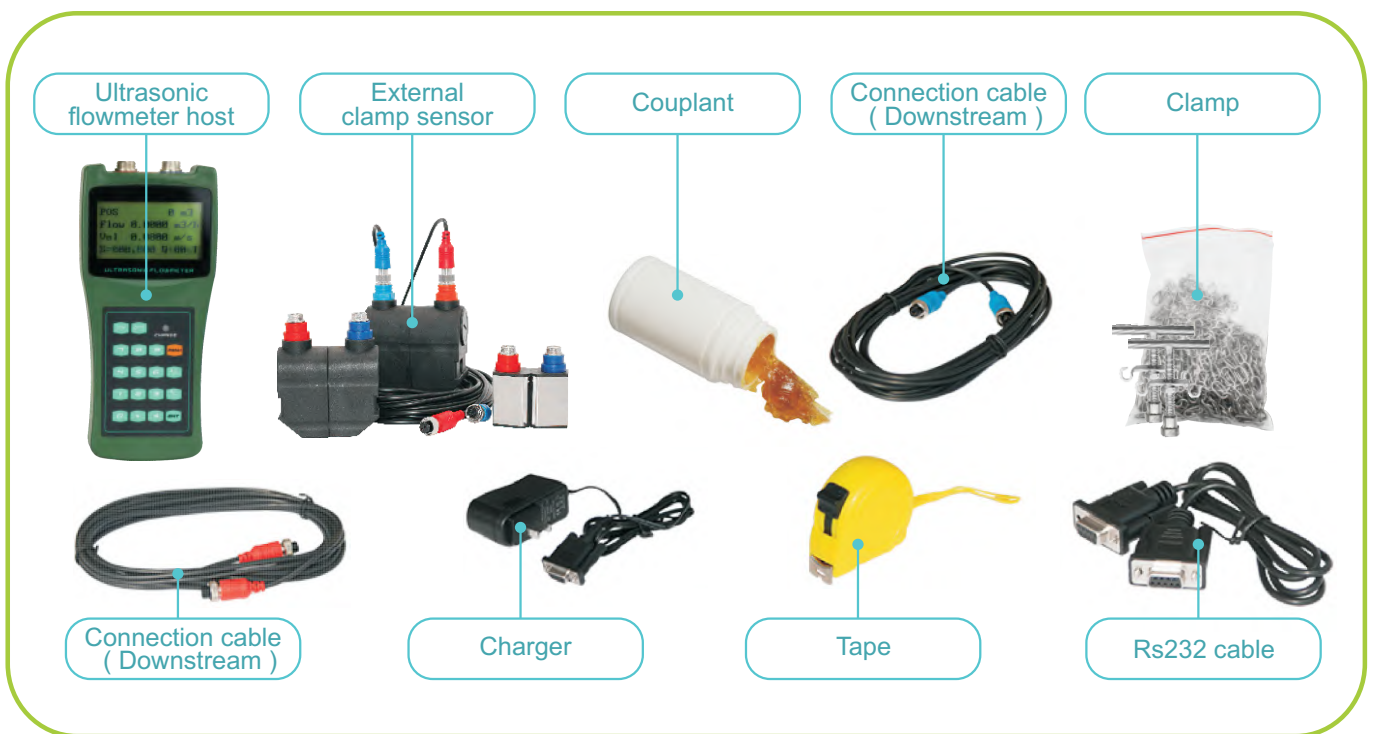
Metallurgy

Petroleum &Chemical

Power plant

Features

- Accuracy better than 1%

- Measurement range from DN15~DN6000mm

- Built-in high-capacity Ni-MH rechargeable batteries will last more than 10 d 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 dispaly can display the instant flow,total flow,flow velocity and working condition
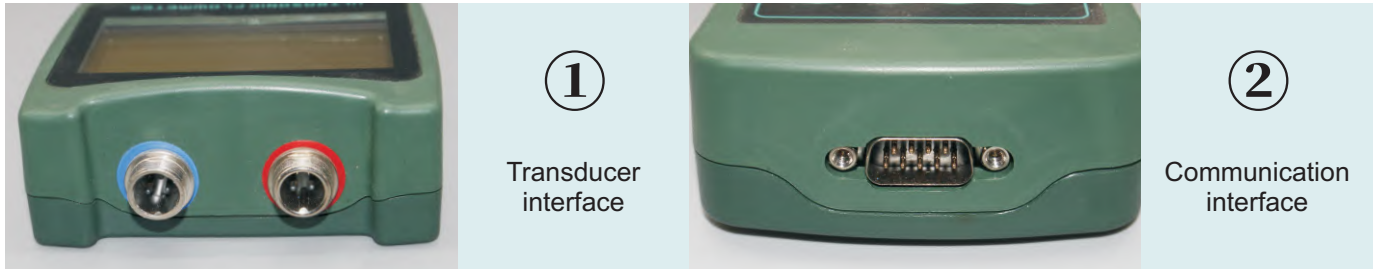
Handheld Ultrasonic Flow Meter Components

MOUNTING BRACKET TRANSDUCER   HANDHELD

ULTRASONIC

FLOWMETER

Ultrasonic flowmeter host	External clamp sensor	Couplant	Connection cable (Downstream)	Clamp

Connection cable (Downstream)	Charger	Tape	Rs232 cable

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The main components feature

① Transducer interface

② Communication interface

③ **LCD Display**

(Sight size:85*19mm
LCD display 2*20)

④ **High Strength Protective Case**

⑤ **Delicate Button Cover**

Exquisite diaphragm button response quickly, good keyboard tactile, long working life.

POS   0 m3
Flow 0.0000 m3/h
Vel 0.0000 m/s
S=000,000 Q=00 1

ULTRASONIC FLOWMETER

Transducers

Clamp on transducer

Clamp on transducer with bracket

Specifications

Type		Performance Perameter
Transmitter	Principle	Ultrasonic transit-time principle,Four-byte IEEE754 floating-point arithmetic
	Accuracy	Flow:Better than ±1%
	Display	LCD display with 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 fuly charged. Can achieve continuous measurement with AC100-240V power adapter
Comsumption		1.5W
Case Material		Flame retardant ABS
Weight		Transmitter: 514g

Optional Transducers

Type	Picture	Size	Model	Measuring range	Temperature	Dimension
Standard Clamp on Type		Small	S2	DN15-DN100	-30℃~90℃	45×25x32mm
		Medium	M2	DN50-DN700	-30℃~90℃	64x39x44mm
		Large	L2	DN300-DN6000	-30℃~90℃	97×54×53mm
High Temperature Clamp on Type		Small	S2H	DN15-DN100	-30℃~160℃	45x25x32mm
		Medium	M2H	DN50-DN700	-30℃~160℃	64x39x44mm
		Large	L2H	DN300-DN6000	-30℃~160℃	97x54x53mm
Standard Clamp on Type		Small	HS	DN15-DN100	-30℃~90℃	318x59x53mm
		Medium	HM	DN50-DN300	-30℃~90℃	568x59x85mm
		Extension	EB-1	DN300-DN700	-30℃~90℃	188x59x49mm
High Temperature Clamp on Type		Small	HS-HT	DN15-DN100	-30℃~160℃	318x59x110mm
		Medium	HM-HT	DN50-DN300	-30℃~160℃	568x59x110mm
		Extension	EB-1-HT	DN300-DN700	-30℃~160℃	188x59x49mm

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Optional Transducers

V method is usually used on pipes from DN15 mm to DN200 mm

Upstream Transducer   Downstream Transducer

±45°   ±45°

Transducers Spacing
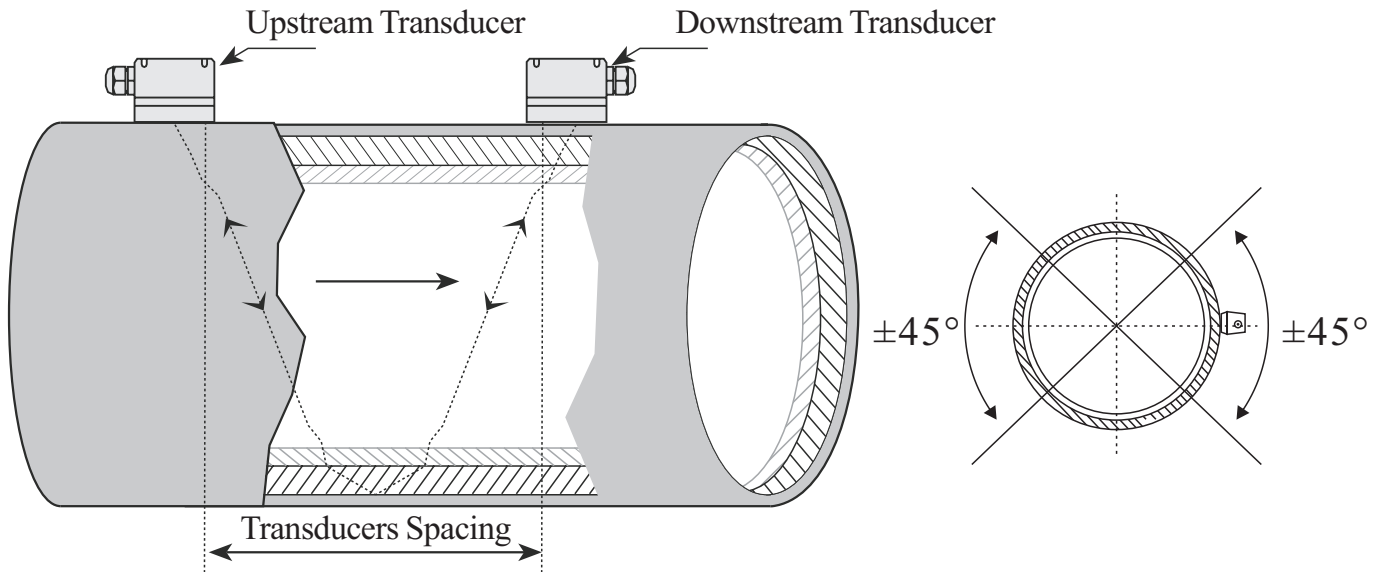
Z-method is usually used on pipes from DN200mm to DN600mm.

Upstream Transducer

±45°   ±45°

Transducers Spacing
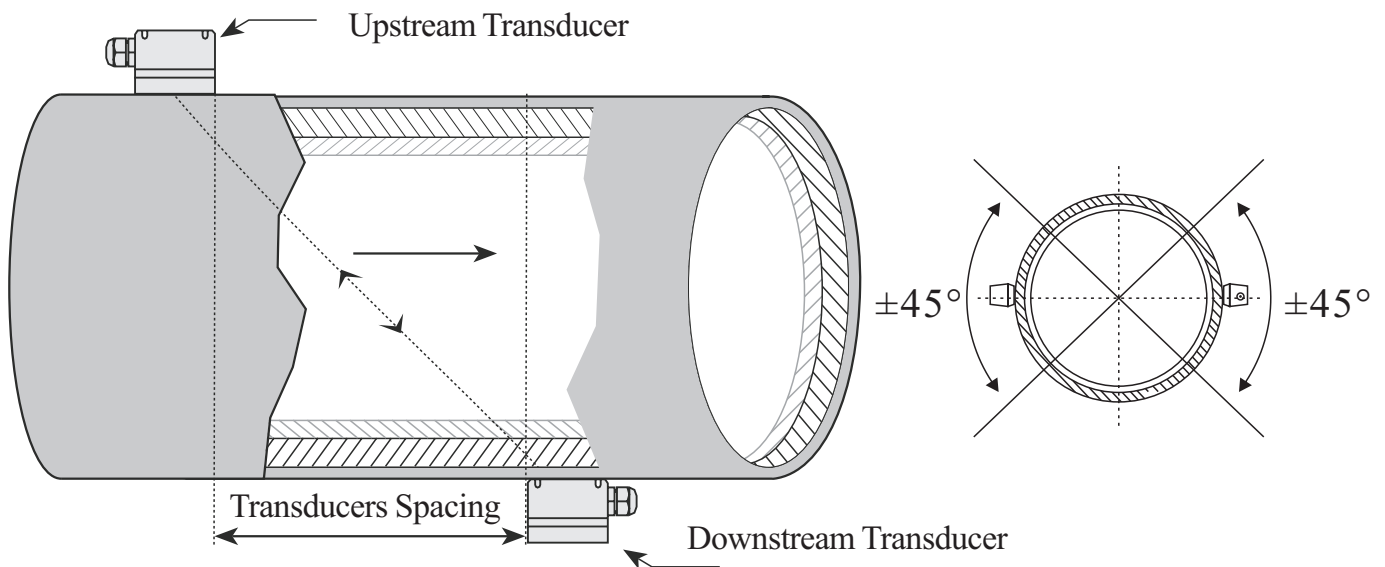
Downstream Transducer

Model Selection

QTDS	XX	XX	XX	Description
Handheld 100H Include: Ultrasonic Handheld * 1 set Power Adaptor * 1 set RS232 communication cable * 1 set Ruler * 1 set Clamp * 1 set Carrying Case * 1 set	100H			Handheld Flowmeter
Small clamp sensor, ½" ~ 4" (DN15 ~ 100 mm),(-30 ~ 90°C)	S2			
Middle clamp sensor, 2" ~ 28" (DN50 ~ 700 mm),(-30 ~ 90°C)	M2			
Large clamp sensor, 12" ~ 240" (300 ~ 6000 mm),(-30 ~ 90°C)	L2			
High Temperature small clamp sensor, ½" ~ 4" (DN15 ~ 100 mm), (-30 ~ 160°C)	S2H			
High Temperature middle clamp sensor, 2" ~ 28" (DN50 ~ 700 mm), (-30 ~ 160°C)	M2H			
High Temperature large clamp sensor,12" ~ 240" (DN300 ~ 6000 mm), (-30 ~ 160°C)	L2H			
Bracket Small clamp Sensor ½" ~ 4" (DN15 ~ 100 mm) ,(-30 ~ 90°C)	HS			Transducers
Bracket Middle clamp sensor, 2" ~ 12" (DN50 ~ 300 mm) ,(-30 ~ 90°C)	HM			
Bracket Middle clamp sensor, 2" ~ 12" (DN50 ~ 700 mm) ,(-30 ~ 90°C)	EB-1			
Bracket Small clamp Sensor ½" ~ 4" (DN15 ~ 100 mm) ,(-30 ~ 160°C)	HS-HT			
Bracket Middle clamp sensor, 2" ~ 12" (DN50 ~ 300 mm) ,(-30 ~ 160°C)	HM-HT			
Bracket Middle clamp sensor extend to 28" (DN300 ~ 700 mm) ,(-30 ~ 160°C)	EB-1-HT			
5m length, 2 Cables (Standard length)		SC		Signal Cable Length
Optional cable length		OC		
IP65 Protection for transducers			ST	Protection Class
IP68 Protection for transducers			IP68	