

CAUDALÍMETRO UF2200

Ultrasonic Flowmeter

Small size, light weight, easy to carry



Handheld

ultrasonic

Real time measurement without breaking pipe

Measurement of flow or simple "paste"

 "No pipe breaking"
measurement technology

 Introduction of
humanized function

 Source manufacturer



Focus on industrial flowmeter



ULTRASONIC

Cumulative flow / Instantaneous flow

Chinese and English operation data is clear at a glance

SMALL
SIZE



Measurement accuracy $\pm 1\%$

High reliability and stable measurement



Flow rate
Same screen
display



RS232
Modbus



Built in rechargeable
battery+
220 V power adapter



The smart probe is suitable for many kinds of pipes



Support all kinds of ultrasonic probes



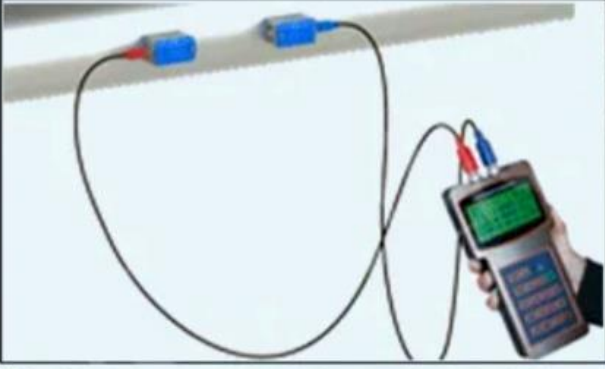
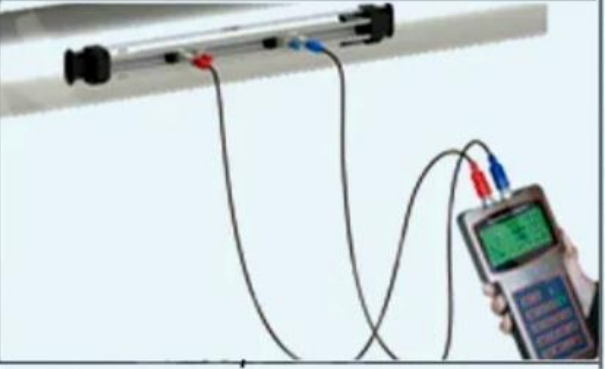
Corresponding table for selection of various sensors

category	picture	Specifications	model	Measuring caliber	temperature range	size
Standard clip on		Standard small	TS-2	DN-15~DN100	~30°~90°c	45x25×32mm
		Standard medium	TM-1	DN50~DN700	~30°~90°c	64x39×44mm
		Standard large	TL-1	DN-300~DN6000	~30°~90°c	97x54×53mm
High temperature clamping type		High temperature miniaturization	TS-2-HT	DN50~DN100	~30°~160°c	45x25×32mm
		High temperature medium	TM-1-HT	DN50~DN700	~30°~160°c	64x39×44mm
		High temperature large	TL-1-HT	DN300~DN6000	~30°~160°c	97×54×53mm
Standard bracket type		Standard small	HS	DN15~DN100	~30°~90°c	318x59×85mm
		Standard medium	HM	DN50~DN300	~30°~90°c	568×59×85mm
		Standard extension	EB-1	DN~300~DN700	~30°~90°c	188x59x49mm
High temperature clamping type		High temperature miniaturization	HS-HT	DN15~DN100	~30°~160°c	318x59x110mm
		High temperature medium	HM-HT	DN50~DN300	~30°~160°c	568×59×110mm
		High temperature extension	EB-1-HT	DN300~DN700	~30°~160°c	188x59×49mm

category	Performance and Parameters	
UF2200 host	Principle	Principle of ultrasonic time difference
	accuracy	$\pm 1\%$
	Display	four $\times$ 8 Chinese or 4 $\times$ 16 Western dot matrix backlit LCD, support Chinese, English, Italian, French language
	signal output	1 channel OCT pulse output (pulse width 6 ~ 1000ms, default 200ms)
	data interface	Isolated RS232 serial interface, the flowmeter can be upgraded by PC
Pipeline condition	Pipe	Steel, stainless steel, cast iron, copper, PVC, aluminum, glass fiber reinforced plastic and other dense pipes are allowed to have lining
	Tube inner diameter	25~6000mm
	Straight pipe section	The installation point of sensor should meet the following requirements: upstream 10d, downstream 5D, distance from pump outlet 30d (D is pipe diameter)
Measuring medium	Species	Water, sea water, industrial sewage, acid-base solution, alcohol, beer, all kinds of oil, etc. can conduct ultrasonic wave
	Temperature	Temperature: - 30 ~ 160 °C
	Turbidity	10000ppm and small bubble content
	Current Speed	0~ ± 10 m/s
work environment	Humidity	Main engine: - 20 ~ 60 °C; Flow sensor: high temperature resistance up to 160 °C Normal temperature type - 30 ~ 90 °C / high temperature type - 30 ~ 160 °C
	Temperature	Main engine: 85% RH; The protection level of sensor is IP67, and the protection level of sensor can be customized to IP68
Power Supply	Three rechargeable Ni MH batteries with built-in 1.2V capacity of 2000mAh can work continuously for more than 12 hours with each full charge. The AC90 ~ 260V power adapter can realize uninterrupted measurement	
Public consumption	1W	
Shell material	Flame retardant ABS	
Main engine weight	390g	

Nombre del producto	Dn15 ~ dn6000 el diámetro de la tubería de medidor de flujo de agua
Linealidad	0.5%
Repetibilidad	0.2%
Precisión	± 1% de lectura a tasas > 0,2 mps
Tiempo de respuesta	0-999 segundos, configurable por el usuario
Velocidad	± 32 m/s
Tamaño de la tubería	15mm-6000mm
Totalizer	Totales de 7 dígitos para flujo neto, positivo y negativo respectivamente
Tipos de líquido	Prácticamente todos los líquidos
Seguridad	Bloqueo de modificación de los valores de configuración. Código de Acceso necesita desbloquear
Pantalla	4x8 caracteres chinos o 4x16 letras en inglés
Interfaz de comunicación	RS-232, tasa de baudios: de 75 a 57600. Protocolo hecho por el fabricante y compatible con el medidor de flujo ultrasónico FUJI. Los protocolos de usuario se pueden hacer en consulta.
Transductor de longitud de cable	Estándar de 5 m x 2 opcional 10 m x 2
Fuente de alimentación	3 AAA incorporada Ni-H baterías Cuando se recarga completamente, durará más de 12 horas de funcionamiento. 100V-240VAC para el cargador
Registrador de datos	El registrador de datos integrado puede almacenar más de 2000 líneas de datos
Manual de totalizador	Totalizador pulsador de 7 dígitos para calibración
Material de la carcasa	ABS
Tamaño de la Caja	210x90x30mm
Teléfono de peso	500g con pilas

Installation effect

Clamping type	Bracket type
 A photograph showing a blue ultrasonic flowmeter sensor clamped onto a white pipe. Wires from the sensor are connected to a handheld digital display device.	 A photograph showing a bracket-mounted ultrasonic flowmeter sensor installed on a white pipe. Wires connect the sensor to a handheld digital display device.
The flow measurement can be completed only by adsorbing the outer clamp sensor on the outer wall. The installation is convenient, and there is no need to break the pipe and cut off the flow. No pressure loss, low cost	The bracket is directly calibrated to simplify the installation process of ultrasonic flowmeter sensor, shorten the installation time, improve the installation accuracy, corrosion resistance and durability.
 Installation of DN20 ~ 40mm pipeline Metal clamp fixation	 Installation of DN50 ~ 4000mm pipeline Steel support chain fixation

Product installation

1. Selection principle

The installation of ultrasonic bed should avoid the position of 6 o'clock and 12 o'clock, so as to avoid signal attenuation caused by sediment at the bottom of the pipe or bubbles and cavitation at the upper part of the pipe. The inner wall structure should be fully considered. When the strength of the pipe section without scaling can be fully satisfied, the scaling should be considered as lining in order to obtain better measurement accuracy.

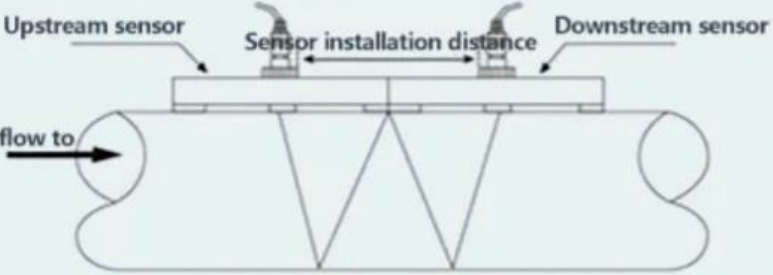
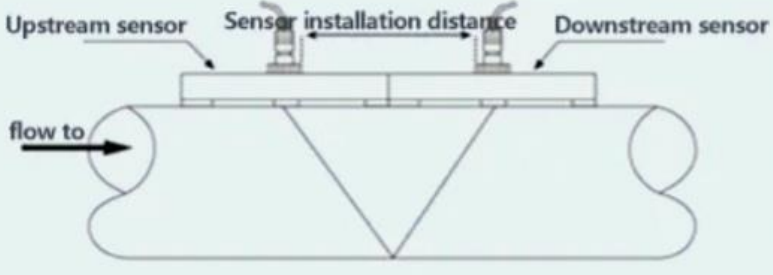


2.Measurement distance selection

Piping Configuration and Transducer Postition (sensor mounting position)	Upstream Dimension (distance from upstream) D is pipe diameter)	Upstream Dimension (distance from upstream) D is the pipe diameter)
 直管段	10D	5D
 缩径	10D	5D
 扩径	10D	5D
 弯头	12D	5D
 弯头	20D	5D
 阀门	20D	5D
 水泵	30D	5D

3.Install the sensor

Ultrasonic flowmeter sensors are usually installed in Z, V and W ways

Installation method	Suggested pipeline	Top view of pipe
W-type installation	10–100mm	
V-type installation	20–300mm	
Z-type installation	Over 100	