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ADA FLOW



AUC100

Ultrasound transmit time principle makes the measurement range from DN15 to DN6000.

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Flowmeter

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AUC100 Description IP68 ultrasonic flow meter



AUC100 series Ultrasonic Flow Meter

Ultrasound transmit time principle makes the measurement range from DN15 to DN6000. The advantages include high accuracy, strong anti-interference, reliability and stability, multiple interface. Each parts can achieve to IP68, enable the meter work in any severe environment.

Features

Temperature and pressure

Temperature range: -30°C ~ 160°C

High Accuracy Measurement

Accuracy: 0.5%, 1%

Ultrasound Measurement

No rotation, no moving parts

Long term measurement with high accuracy

Waterproof Keyboard

4-key board design, support setting operation password

IP68 protection class

Whole machine waterproof: Sealed completely reaching IP68 protection level.

Parts waterproof: Each part is waterproof, operating normally in the event of water inside.

Multiple in interface

communication interface: RS485 interface

Output: 4-20mA analog/OCT pulse/Relay signal

Heat measurement: 3-wire PT100 temperature sensor

Input: 3 way 4-20mA, acquisition signal of temperature, pressure, liquid level, etc.



Standard inline ultrasonic flow meter



	ITEM	Performance and Parameter
Converter	Principle	Transit-time, 4 byte floating-point operation in accordance with IEEE754
	Accuracy	Inline type: flow meter: ±0.5%; heat meter: ±1.0% Clamp on type: flow meter: ±1.0%; heat meter: ±2.0% Insertion type: flow meter: ±1.0%; heat meter: ±2.0%
	Operation	4-key manipulation with magnetic bar touch or finger touch; simulation keyboard software
	Output	One way 4-20mA analog output One way OCT pulse signal output One way Relay output
	Input	3 way 4-20mA analog input, accuracy: 0.1%; Acquisition signal of temperature, pressure and liquid level Achieve heat measurement by connecting 3-wired PT100 Temperature sensor
	Data interface	RS485 serial interface, upgraded by computer, support MODBUS communication protocol
	Special Cable	Twisted-pair shielded cable and cable length should be no more than 50 m. Transmission distance can achieve 1 km if select the RS 485 interface
Pipeline	Pipe Material	Steel, stainless, copper, cement, PVC, aluminum, glass steel, cast iron
	Pipe Diameter	DN 15 ~ 6000mm
	Straight length pipe	Transducers installation points should be: 10 diameters' straight pipeline from upstream transducer, 5 diameters' straight pipeline from the downstream transducer; 30 diameters' straight pipeline from the pump

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Standard inline ultrasonic flow meter

Measurement Medium	ITEM	Performance and Parameter
	Liquid type	Single liquid that can conduct sound wave, such as water, Seawater, sewage, plant effluent, chemicals, alcohol, beer, oil etc.
	Fluid temperature	-30°C ~ 160°C
	Turbidity	≤10000ppm, with little bubble
	Fluid velocity	0m/s ~ 7m/s
	Temperature	Converter: -20°C ~ 60°C; transducer: -30°C ~ 160°C
	Humidity	Both of the converter and transducers can work under water, depth underwater ≤2m (After completely sealing)
Power supply	DC8-36V; AC85-264V (optional)	
Power consumption	1.5W	



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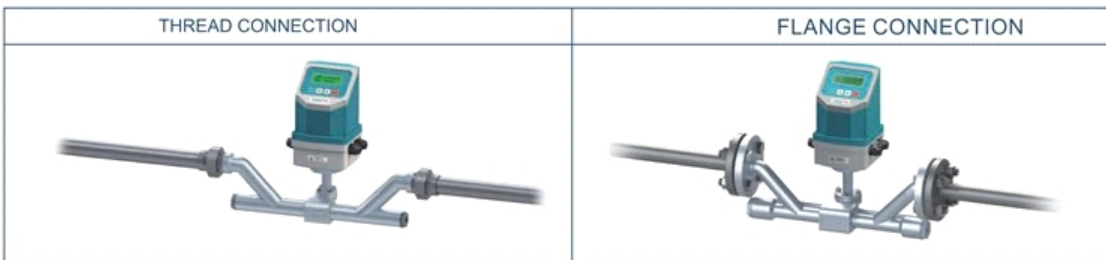
DN15~32mm



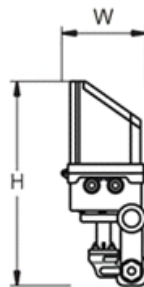
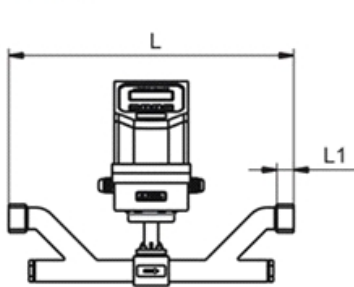
DN40~6000mm

AT type inline ultrasonic flow meter(DN15mm-DN32mm)

The measuring range of AT type inline ultrasonic flow meter is DN15mm-DN32mm, by flange connection or thread connection. IP68 protection level. measuring temperature range -30°C-160°C, P/N 0-4.0Mpa, high accuracy within $\pm 0.5\%$



• Thread Connection



Unit: mm

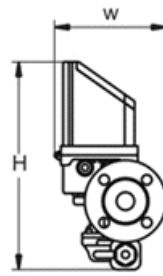
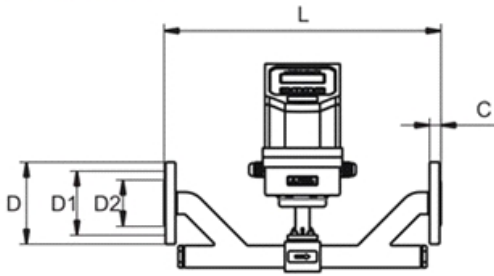
Standard of Thread: GB/T7307-2001

Nominal Diameter (DN)	Pressure Level P	Length L	Width W	Height H	Thread Length L1	Thread Standard
DN15	2.5	320	121	285	13	G3/4B
DN20	2.5	360	121	285	15	G1B
DN25	2.5	390	121	292	16	G1 1/4B
DN32	2.5	450	121	292	22.5	G1 1/2B

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AUC100 Description IP68 ultrasonic flow meter

● Flange Connection



Unit: mm

Standard of Flange: GB/T 9119-2000

Nominal Diameter (DN)	Pressure Level P	Length L	Width W	Height H	Flange Dimension						
					Normal Size D	Bolt Hole Centers D1	Bolt Hole X Quantity $\phi \times n$	Sealing Surface Diameter D2	Flange Thickness		Bolts Dimension
									C	f	
DN 15	2.5	320	148	285	95	65	14 x 4	46	14	2	M12 x 50
DN 20	2.5	360	153	285	105	75	14 x 4	56	16	2	M12 x 50
DN 25	2.5	390	158	292	115	85	14 x 4	65	16	2	M12 x 50
DN 32	2.5	450	170	292	140	100	18 x 4	76	18	2	M16 x 60

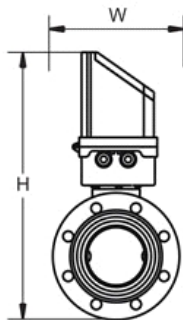
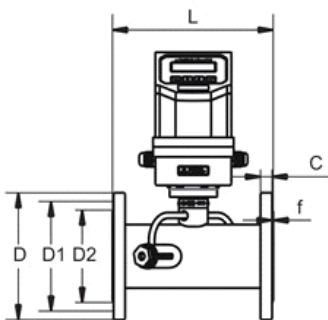
DN1000mm

The measuring range of standard inline type ultrasonic flow meter is DN40mm-DN1000mm, with high protection class of IP68, measuring fluid temperature of -30°C-160°C, pressure range of 0-2.5Mpa, high accuracy within $\pm 0.5\%$

STANDARD FLANGE CONNECTION



Dimension



Unit: mm

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AUC100 Description IP68 ultrasonic flow meter

Parameters of Transducer

● Clamp on Transducer



Built-in magnet, easy to be absorbed on pipe
Protection Level: IP68
Measuring range: DN15-DN6000
Temperature range: -30° ~ 90°C

Type	Small	Medium	Large
Model	TS-2	TM-1	TL-1
Measuring Range	DN15-DN100	DN50-DN700	DN300-DN6000
Temperature	-30°~ 90°C	-30°~ 90°C	-30°~ 90°C
Dimention	45x25x32mm	64x39x44mm	97x54x53mm

● High Temperature Clamp on Transducer



Built-in magnet, easy to be absorbed on pipe
Protection Level: IP68
Measuring range: DN15-DN6000
Temperature range: -30° ~ 160°C

Type	Small	Medium	Large
Model	TS-2-HT	TM-1-HT	TL-1-HT
Measuring Range	DN15-DN100	DN50-DN700	DN300-DN6000
Temperature	-30°~ 160°C	-30°~ 160°C	-30°~ 160°C
Dimention	45x25x32mm	64x39x44mm	97x54x53mm

● Insertion



Type	Standard	Lengthen
Model	TC-1	TC-2
Measuring Range	DN80 ~ DN6000	DN80 ~ DN6000
Temperature	-30°~ 160°C	-30°~ 160°C
Dimention	190x80x55mm	335x80x55mm

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