

SS FLOW_ULTRASONIC FLOWMETER



DESCRIPTION

SSFLOW Ultrasonic flowmeters use sound waves to determine the velocity of a fluid flowing in a pipe. At no flow conditions, the

frequencies of an ultrasonic wave transmitted into a pipe and its reflections from the fluid are the same. Under flowing

conditions, the frequency of the reflected wave is different due to the Doppler effect. When the fluid moves faster, the frequency shift increases linearly. The transmitter processes signals from the transmitted wave and its reflections to determine the flow rate.

Transit time ultrasonic flowmeters send and receive ultrasonic waves between transducers in both the upstream and downstream directions in the pipe. At no flow conditions, it takes the same time to travel upstream and downstream between the transducers.

Under flowing conditions, the upstream wave will travel slower and take more time than the (faster) downstream wave. When the fluid moves faster, the difference between the upstream and downstream times increases. The transmitter processes upstream and downstream times to determine the flow rate.

KEY FEATURES

- Easy Installation
- No Pipe cutting required
- High Flow Range
- Suitable for all kind of liquid





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TECHNICAL SPECIFICATIONS

Pipe Size	DN 15mm~6000mm
Power Consumption	Less than 1.5W
Measuring Principle	Transit-time measuring principle
Power Supply	90-230VAC / 24v DC / Battery Operated
Output	RS232 / RS485
Protection Class	IP65
Memory	512days
Pipe Material	All metals, most plastics, fiber glass
Accuracy	Better than $\pm 1\%$
Repeatability	Better than 0.2%
Measurement Period	500ms
Display	LCD with backlight
Temperature	Main Unit: -30°C - 80°C



Type of Transducer

Flow Transducer	Picture	Model	Measuring range	Temperature
Clamp on		TS-2 (small)	DN25-100	-30 ~ 90℃
		TM-1 (medium)	DN50-700	
		TL-1 (large)	DN300-6000	
High temp. Clamp on		TS-2-HT (small)	DN25-100	-30 ~ 160℃
		TM-1-HT (medium)	DN50-700	
		TL-1-HT (large)	DN300-6000	
Insertion		TC-1 (standard)	DN50-6000	-30 ~ 160℃
		TC-2 (extended)		
		TP-1 (parallel)	DN200-6000	
Inline		Standard	DN15-1000	-30 ~160℃



SENSOR DETAILS

External Clip Probe

Technical Parameters	Standard small 1 sensor	Standard medium 1 sensor	Standard large 1 sensor
Applicable pipe diameter	DN15 ~ DN100mm	DN50 ~ DN700mm	DN300 ~ DN3000mm
Material	Polyurethane alloy		
working frequency	1MHz		
installation method	V (N、W)	V、Z	Z
Calibration	Machine pairing calibration		
Magnetic	have		
proper temperature	0-80℃		
Protection level	IP68 (Water-immersible work, water depth ≤ 3 meters)		
Medium	Water, sea water, sewage, alcohol, some oils, etc. A single, uniform, stable liquid that conducts ultrasonic waves.		
Applicable pipe	Carbon steel, cast iron, copper, PVC, aluminum, fiberglass and other pipes are allowed to be lined.		
signal cable	SV75-2 special shielded cable can be extended to 300 meters. When wiring, the cable should be metal sleeve to increase the anti-interference, and pay attention to the cable not to be parallel with the high-voltage cable. Try to avoid the interference source such as the inverter.		

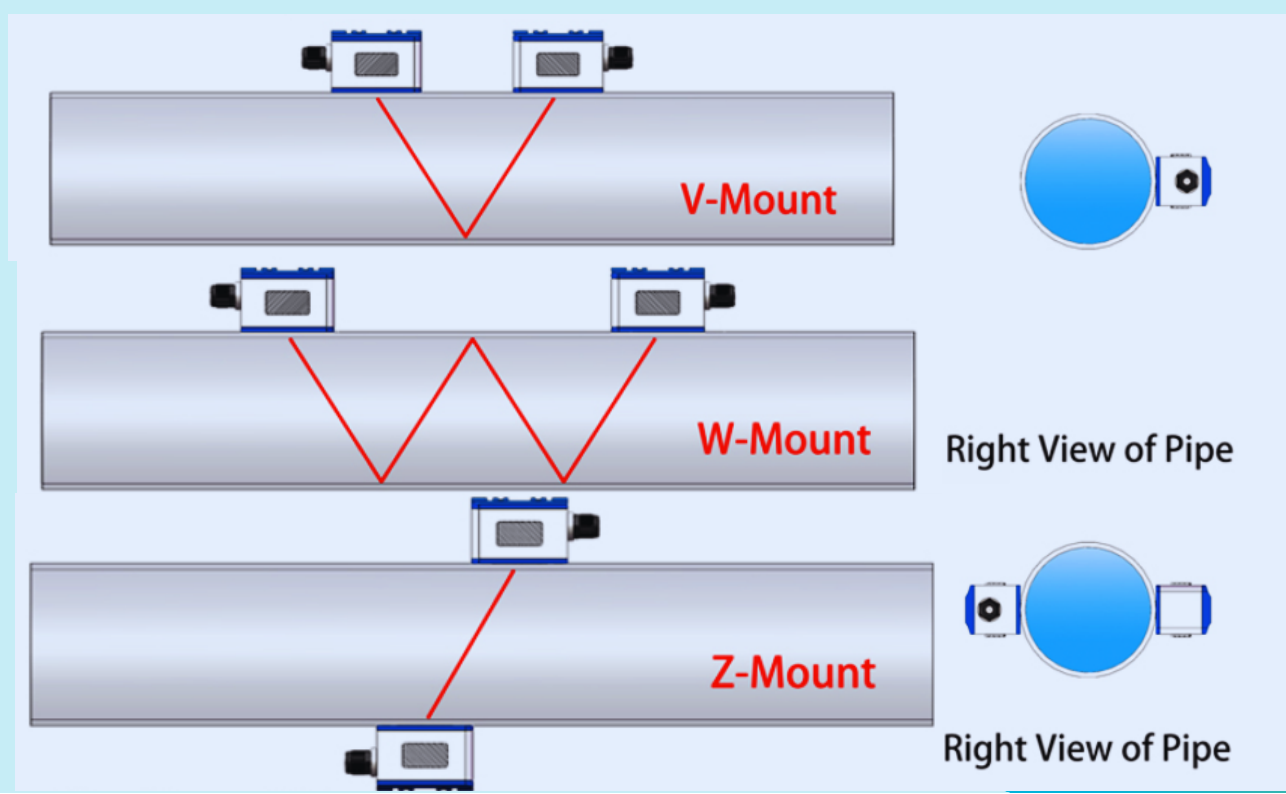
BIDIRECTIONAL
FLOW
MEASUREMENT

HIGHLY
ACCURATE
AND
REPEATBLE

SUITABLE FOR
ALL KIND OF
LIQUID

NO PIPE
CUTTING
NEEDED

INSTALLATION METHOD



ORDERING INFORMATION

SSFLOW_UFM_Line Size				
Meter Power supply	1. 230v AC		Output	1. 4 to 20 mA
	2. 24v DC			2. Relay
Operating Temperature	1. Upto 80 degree c			3. Others
	2. Upto 160 Degree C		Communication	1. RS485 Modbus RTU
				2. HART
	3. Please specify		Ingress Protection	1. IP 65
Sensor Type	1. Clamp On			2. IP 67
	2. Insertion		Enclosure Type	1. Flame Proof
Sensor Type	1.Small			2. Non - Flame Proof
	2.Middle		Test Certificate	1. Factory Certificate
	3. Large			2. Nabl Traceability
Cable Length	1.Upto 5 meter		*Please consult our experts for any kind of further customisation	
	2. Above 5 meter			

Due to continuous developments, specifications are subject to change without prior notice

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SS FLOW
A NEVER ENDING JOURNEY