Product overview

The FBG velocity-averaging tube flowmeter is a high-precision measuring instrument developed according to advanced aerodynamic principle supplemented by the wind tunnel test on the basis of pitot tube speed measuring principle. It's a differential pressure type and rate average flow sensor. The difference between the average total and static pressure in the fluid through the sensor is used to indicate the flow. It's often used to measure the flow of liquid, gas and vapor.

Product features

safety security;

- There is no movable part structurally, and the sensor lifetime and long-term stability can be ensured;
- High accuracy ($\pm 0.5 \sim 1.0\%$ F. S) and good repeatability ($\pm 1.0\%$);
- The flowmeter is of small pressure loss, greatly lowering the energy consumption;
- After the static pressure inlet of the flowmeter is taken on both sides of the sensor, the flowmeter is extremely insensitive to foreign matter and dirt in the medium;
- The flowmeter is basically maintenance-free with simpel installation and low expense;
- To facilitate the use by the user, our company's VERIS flowmeter is of integrated and split structure;

• The intelligent integrated VERIS flowmeter is of advanced circuit design with strong function, micro-power consumption, display of flow information on the large LCD screen and internal memory unit ensuring the

• As for the integrated VERIS flowmeter system, the battery power supply and external 24VDC power supply can be used with output $4\sim$ 20mA pulse signal and Hart protocol;

• As for the measurement molded surface designed according

- to aerodynamic principle, the fluid traction and vortex street peeling force produced can be very small by the special fabrication processing;
- The static pressure hole on the side is taken, and the static pressure generated is in front of the point of separation between the fluid and the sensor and a stable non-pulsating differential pressure signal.

Technical parameters

Applicable pipe diameter	25-6000mm						
Measurement accuracy	±0.5~1.0F.S						
Repeat accuracy	$\pm 1.0\%$						
Applicable temperature	-100-500°C, reaching to 800°C under the special situation						
Applicable pressure:	$0 \sim 25$ MPa, reaching to 40MPa under the special situation						
Upper limit of measurement	Determination as per process requirement and probe strength						
Lower limit of measurement	Depending on the minimum differential pressure requirement of measurement						
	Gas, minimum differential pressure: 0.025KPa, and flow velocity: 4.5m / s						
	Liquid, minimum differential pressure: 0.260KPa, flow velocity: 0.6m / s						
	Steam, minimum differential pressure: 0.400KPa and flow velocity: 9.7m / s						



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FBG velocity-averaging tube flowmeter

Range ratio	Range ratio-10:1 in the premise of ensuring precision						
Applicable medium	Full package, unidirectional gas, vapor and liquid with a viscosity not greater than 10cm						
Straight pipe section	Front 7D and rear 3D generally						

* Equipment differential pressure transmitter, and intelligent flowmeter calculator condenser; Integral welding or flange or thread.

Product model selection

FBG-V	VERIS flowmeter											
FBG-A	Flute velocity-averaging tube flowmeter											
Nominal diameter	***									100 indicates DN100		
Star to Same		Ζ		Intelligent integra								
Structure form		L								Split type		
Measuring medium			W							Liquid		
			L							Gas		
			В							Steam		
Body form				1						Pipe flange type		
				2		Flange connection plug-in type						
				3						Threaded connection plug-in type		
					Α					0~0.6MPa		
					В		0-1.0MPa					
					С		0-1.6MPa					
							0~2.5MPa					
Pipe static pressure							0-4.0MPa					
					F		0~6.3MPa					
					G		0~10MPa					
					Н	0~16MPa						
					1		0~25MPa					
					J					0~40MPa		
						0				Ordinary		
Technological conditions								Corrosion prevention				
				2 High								
						3				Explosion proofing		
Compensation method							0			No compensation		
		1							Single pressure compensation			
							Т		Single temperature compensation			
							0		Full compensation for pressure and temperature			
Integrated signal output								0		Without		
								1	4-20mA			
								2	Pulse			
								3		Hart		
Integrated power supply mode									K	Internal battery power supply		
									L	Battery and 24VDC double selection power supply		
									М	External 24VDC power supply		

* It's necessary to provide pipeline inner/outer diameter and pipeline material;

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