

LUGB Vortex flow meter



Introduction

Stress type vortex flow meter is a kind of velocity type flow meter, which is based on Carmen vortex theory, using piezoelectric crystal examination. The vortex frequency measurement of fluid through a pipe in the triangular column produced, which measure the fluid flow vortex flow meter widely. Vortex flow meter are widely used in petroleum, chemical, power heating and other industries.

Features

- Simple structure, no moving parts no wear, high reliability
- High accuracy and good reliability, don't need on-site debugging
- Unique design of the amplification board, gas or liquid can be used.
- Can be long-distance transmission of flow signals, and computer networking, centralized management
- It has a variety of data transmission methods, including 4-20ma output, frequency output, RS485,
- Modbus, Hart communication

Flow range

Nominal diameter DN(mm)	Liquid(t=20℃ ρ=1000Kg/m3)		Gas(t=20℃ 101325 Pa Air)	
	Obtained Flow Range	Standard Range	Obtained Flow Range	Standard Range
20	1~8	0.6~12	5~50	5~60
25	1.5~12	0.8~16	8~80	8~120
40	2.5~30	1.5~40	20~200	18~300
50	3~50	2~60	30~300	30~500
65	5~80	3~90	50~500	50~900
80	8~120	5~150	80~1000	60~1200
100	12~200	6~240	100~1000	100~2000
125	20~300	13~390	150~1600	150~3000
150	30~400	15~600	250~2500	200~4000
200	40~800	30~1200	400~4000	350~8000
250	80~1200	40~1600	600~6000	500~12000
300	100~1800	1000~10000	1000~10000	600~18000

Technical parameters

Main technical parameters	
Diameter	DN15-DN1500
Measuring medium	Liquid, gas, steam (saturated steam, superheated steam), special type of medium that can measure corrosion resistance.
Accuracy level	1%,1.5%
Repeatability	Within ±0.2%
Maximum use pressure	Due to different flange specifications, it is generally 1.6MPa. In special cases, 2.5MPa--4.0MPa can be customized according to the conditions of the measured medium.
Operating temperature range	-10℃~+350℃.
Environmental conditions	Temperature:-30℃--+60℃, humidity:5%--90%
Power supply	24V DC, 3.6V lithium battery.
Output signal	Pulse output, 4-20Ma analog signal
Communication	RS232 ,RS485,HART
Explosion-proof model	EXiaII BT4 or EXiaII BT5