



Features of vortex flowmeter:

- easy installation and maintenance;
- simple and firm structure, no movable parts, and reliable long-term operation;
- wide range, range ratio up to 1:15;
- low-pressure loss, low operation cost, and more energy-saving significance;
- wide application range, liquid, gas, and steam can be measured;
- the verification cycle is long, usually two years;
- within a certain Reynolds number range, the output signal is not affected by the physical properties and composition changes of the measured medium. The instrument coefficient is only related to the shape and size of the vortex generator. Generally, it is not necessary to recalibrate the instrument coefficient after replacing accessories;
- it can be displayed on site, transmitted remotely, and networked with a computer control system;
- the detection probe does not directly contact the measured medium, so its performance is more stable.

Technical indexes of vortex flowmeter

Measuring medium	Liquid, gas, steam (single-phase medium or medium that can be considered as single-phase)	
	When the dryness of saturated steam is $\geq 85\%$, it can be considered as the single-phase medium	
Medium temperature (°C)	-20~+350	
Medium pressure	1.6Mpa 2.5MPa 4.0Mpa ≥ 4.0 Mpa agreement order	
Allowable vibration acceleration	Piezoelectric type: $\leq 0.2g$	
Uncertainty	1.0Level 1.5 plug-in level 2.5	
Range ratio	1:6 - 1:15	
Velocity range	Liquid: 0.35 ~ 7.0m/s gas: 5.0 ~ 60.0m/s steam: 6.0 ~ 70.0m/s	
Specifications	Full tube	The specification of flange clamping type and flange type is dn15-dn300
	Plugin	Dn200-dn1500 (special order can be made if it exceeds DN1500)

texture of material	304Other materials shall be ordered according to the agreement	
resistance coefficient	Full tube CD ≤ 2.6	
Degree of protection	Ordinary type: IP65 diving type: IP68	
Explosion-proof grade	Intrinsically safe: Exia II ct1-t4ga	
environment condition	ambient temperature	-30℃ ~ + 55 ℃ (non explosion proof place) - 25 ℃ ~ + 50 ℃ (explosion-proof place)
	relative humidity	≤5-85%
	atmospheric pressure	86~106kPa
Power supply	Pulse type 12VDC ~ + 24VDC current type + 24VDC 4-20mA battery power supply 3.6V	
output signal	Pulse signal low level ≤ 1V high level ≥ supply voltage minus 1V	
	Two-wire 4-20mA signal explosion-proof load ≤ 300 Ω, non-explosion-proof load ≤ 500 Ω	
	Transmission distance: pulse ≤ 300m, current ≤ 1500m, RS485 ≤ 1200m.	

DN (mm)	Fluid		Gas	
	Standard range	Measured flow range	Standard range	Measured flow 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	500-1200
300	100-1800	50-2000	1000-10000	600-1800