

VORTEX FLOWMETER MODEL VFM71



The working principle of vortex flowmeters is based on the Karman vortex principle, which states that when an object is placed in a fluid, alternating shedding vortices will occur on both sides of the object, a phenomenon known as the Karman vortex street. By detecting the frequency of these vortices, the flow rate of the fluid can be calculated. This flowmeter is suitable for measuring gas, liquid and steam and other media, widely used in petroleum, chemical, electric power, light industry and other industries.

Features

- High accuracy, linearity and stability
- Simple and firm structure, no moving parts, high reliability
- Good reliability and anti-interference performance.
- Wide range of applications, the flow of steam, gas and liquid can be measured.
- Smaller pressure loss, low operating cost and more energy saving

Technical parameter

General

Basic information

Path		15...600mm		
Path (mm)	Liquid (test medium, normal temperature water)		Gas (Test medium: 20 °C , air under 101325Pa)	
	Standard	Extended		
15	0.8-6	0.5-8	6-40	5-50
20	1-8	0.6-12	8-50	6-60
25	1.5-12	0.8-16	10-80	8-120
40	2.5-30	2-40	25-200	20-300
50	3-50	2.5-60	30-300	25-500
65	5-80	4-100	50-500	40-800
80	8-120	6-160	80-800	60-1200
100	12-200	8-250	120-1200	100-2000
125	20-300	12-400	160-1600	150-3000
150	30-400	18-600	250-2500	200-4000
200	50-800	30-1200	400-4000	350-8000
250	80-1200	40-1600	600-6000	500-12000
300	100-1600	60-2500	1000-10000	600-16000
400	200-3000	120-5000	1600-16000	1000-25000
500	300-5000	200-8000	2500-25000	1600-40000
600	500-8000	300-10000	4000-40000	2500-60000

Maximum flow rate 10m/s

Comprehensive accuracy 1.0

Nominal pressure 4.0MPa,2.5MPa,1.6MPa,0.6MPa

Connection flange material stainless steel (304,316,316L)

Operating conditions

Ambient temperature -25...60°C[-13...+140°F]

IP grade IP65

Electrical overview

Output signal 4...20mA,HART,RS485

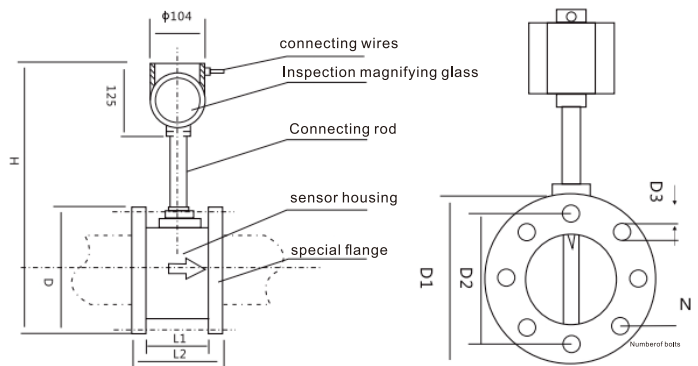
Power supply 220VAC,24VDC

Electrical connection Terminal

Fluid conductivity $\geq 50\mu\text{S/cm}$

Consumed power $\leq 20\text{W}$

Dimensiones in mm(in)



Ordering information

Example part number:VFM71-15131241111

Model VFM71 vortex flowmeter,Diameter DN 15mm,Flange material 304,Measured medium Steam,Temperature compensation No temperature compensation,Power supply 3.6V,Output signal Frequency / Pulse output,Display method LCD display momentarily/Cumulative flow,Accuracy 1%FS,Electrical connection Within M20*1.5,Pressure level 1.6MPa,Explosion-proof grade CT4.

V F M 7 1 - 1 5 1 3 1 2 4 1 1 1 1 1

① Name VFM71	④ Measured medium 1 Liquid 2 Gas 3 Steam	⑥ Power supply 1 24V DC 2 3.6V	⑦ Output signal 1 4...20mA two-wire system 2 4...20mA+ HA RT two-wire system 3 RS485/Modbus four wire-system 4 Frequency / Pulse output 5 Customizable	⑨ Accuracy 1 1%FS 2 1.5%FS	⑪ Pressure level 1 1.6MPa 2 2.5MPa 3 4.0MPa 0 Customizable
② Diameter DN10...100...600	⑤ Temperature compensation 1 No temperature compensation 2 With temperature compensation	⑧ Display method 1 LCD display momentarily/Cumulative flow 2 Customizable	⑩ Electrical connection 1 Within M20*1.5 2 Customizable	⑫ Explosion-proof grade 1 CT4 2 CT6	
③ Flange material 1 304 2 316					

Please make separate remarks for special requirements.

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