HFM200 VOTEX FLOW METER



Nanjing Hangjia Electronic Technology Co., Ltd.

Overview

HFM200 Vortex Flowmeter is a new type stress detection vortex flowmeter, which adopts piezoelectric crystal as measuring element based on Karmann votex principle. It has lots of advantages such as wide range rate, high accuracy, small pressure losing, great medium versatility, with pulse signal output proportionate to flow, easy connection with computer. As the inspection probe is installed separately with vortex generator, and the heat-resisting piezoelectric crystal does not connect with medium, therefore the instrument has simple structure, great versatility and high stability features.

Features

- .clear LCD display screen, display instantaneous flow and cumulative flow respectively
- ➤ .high-strength piezoelectric crystal, integrated structure, impact resistance
- > .optional temperature compensation, pressure temperature, to meet more field services
- > .The circuit board is processed through ageing before delivery, and it is with the real flow calibration for whole machine, more suitable for field use.
- No external power supply is required. It adopts 3.6V lithium batter for power supply, which can continuously work more than two years, especially suitable for use in the field where the power supply is difficult to access.

Technical Parameter

Aperture Diameter (mm)	15, 20, 25, 40, 50, 65, 80, 100, 125, 150, 200, 250, 300, (300~1000 plug in)	
Nominal Pressure (MPa)	DN15-DN200 4.0(>4.0, negotiation), DN250-DN300 1.6(>1.6,negotiation)	
Medium Temperature (℃)	Piezoelectric type: $-40\sim150$, $-40\sim260$, $-40\sim330$; capacitive type: $-40\sim400$, $-40\sim500$ (negotiation)	
Body Material	1Cr18Ni9Ti, (other materials: negotiation)	
Permissible Vibration Acceleration	Piezoelectric type:0.2g, capacitive type:1.0~2.0g	
Accuracy	±1%,±1.5%; Plug in type: ±2.5%	
Range Rate	1:6~1:30	
Supply Voltage	Sensor: DC +12V, DC +24V; transmitter: DC +12V , DC +24V; battery powered; 3.6V battery	
Output Signal	Square-wave pulse(excluding battery powered): high level≥5V, low level≤1V; current: 4~20mA	
Pressure Loss Coefficient	Meet JB/T9249 standards Cd≤2.4	
Explosion-proof Sign	Intrinsic safety type: Exd II ia CT2-T5 ; explosion type: Exd II CT2-T5	
Ingress Protection	Normal: IP65 Diving: IP68	
Environmental Conditions	Temperature: -20℃~55℃, Relative humidity: 5%~90%, Atmospheric pressure: 86~106kPa	
Suitable Medium	Gas, liquid, steam	
Transmission Distance	Three-wire pulse output≤300m, two-wire standard current output (4~20mA) ≤1500m, RS485/HART≤1200m.	

Ordering Guide

Item NO.	Code	Illustration	
HFM200		Vortex Shedding Flowmeter	
Installment Way	F D	Flange Type Camping Type	
Medium	G	Gas Flow Liquid Flow Steam Flow	
Inside Nominal	15	DN15 DN20	
Diameter	300	DN300	
Supply Voltage	0	3.6V Lithium Battery 24V DC Duplicate Supply	
Header	D N	Digital Display Header No Diaplay Header	
Output S	ignal	Pulse $4{\sim}20$ mA RS485	
Sensor	S4 S6 OT	Stainless Steel 304 Stainless Steel 316L Other Customization	
Medium Temperature		(-40~250) °C (100~350) °C	
Rate	10 16 25 40	10bar 16bar 25bar 40bar	
Explos	sion-proof Grade 0 Exd	Non-explosionproof Explosion-proof Type	
Reference Item: HFM200-F-G-20-1-D-A-S4-E-10-0			