



Achievers



ACCURATE SOLUTIONS FOR FLOW MEASUREMENT

- INDUSTRY LEADER
- OVER 5 YEARS OF EXPERIENCE
- EFFICIENT AND DURABLE PRODUCTS
- WIDE RANGE OF SELECTION



CE - 211

VORTEX FLOW METER

CE-211 Digital gas vortex flow meter is a flow meter operating with Vortex Street principle for flow rate of gases (air, oxygen, nitrogen, coal gas, natural gas, chemical gas, etc.). It could be used in automatic control system as flow transmitter. The product adopted advanced differential technique, together with measurement of isolating, shielding and filtering, it had possesses better anti-vibration performance and signal stability. CE-211 gas flow meter is also with unique sensor encapsulation and protection technology to ensure service life of the sensor.

Features

- Without movable parts and adopt simple structure, it is very easy to install and maintain the product.
- Sensor output is with pulse signal, there is a linear relation between frequency of the signal and actual flow rate of the medium.
- The product is with stable performance and no zero drifting, offering pipe and insertion sensor type options.
- Wide measurement range, the highest range ratio could reach to 20:1
- Low pressure loss and consumption.
- Measure components will not contact with medium, which helped the product to maintain stable performance and long service life.
- Assemble with anti-interference circuit and anti-vibration sensors, which could ensure anti-vibration performance of the product.
- Supports Wide Range

Accessories Available

- Available in intrinsic explosion proof Option
- Available in Flameproof Option
- Available With 4-20 ma, RS 485 Output For Industrial Systems
- Can be customized for high pressure lines
- Can be customized for high temperatures
- Available with pressure compensation
- Available with temperature compensation
- Battery Powered Display Available
- DC Powered Display Available



Specifications

Medium	Air, oxygen, nitrogen, coal gas, natural gas, chemical gas, etc.
Accuracy	Pipe type: Class 1.0
Medium temperature	-40°C~+400°C
Nominal pressure	≤1.6Mpa (offer ≤2.5Mpa and ≤4.0Mpa customization)
Flow rate	5-60m/s
Output	Voltage pulse, 4-20mA output, HART, Modbus, RS485, RS232 options.
Installation	Flange, clamp flange, insertion, threat, clamp connection
	12~28VDC
Power	3.6V lithium battery (on site display) 85~265VAC (Remote display)
Operating condition	Temperature: -25°C~60°C
	Humidity: 5%~90%

Technical Details

Diameter (mm)	Range (m3/h)	Frequency range (Hz)	Diameter (mm)	Range (m3/h)	Frequency range (Hz)
15	2.2-40	240-2350	200	560~8000	22~315
20	4-60	210-2132	250	890~11000	18~221
25	8-100	190~2300	300	1360~18000	16~213
32	15~150	150~1496	(300)	1560~15600	85~880
40	27~205	140~1040	(400)	2750~27000	85~880
50	35~380	94~1020	(500)	4300~43000	85~880
65	68~680	80~807	(600)	6100~61000	85~880
80	86~1100	55~690	(800)	11000~110000	85~880
100	133~1700	42~536	(1000)	17000~170000	85~880
125	230~2500	38~416	> (1000)		
150	347~4000	33~380			

※ Important note

Lower limit flow range will be quite high for gas medium with low density and high viscosity under normal temperature and pressure (for example: hydrogen). If the application flow rate is very low, vortex flow meter is probably not suitable. Vortex flow meter only fits this gas type when it is with high pressure and big flow rate under strict calculation of flow range.

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