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Технические характеристики

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ZENNER ZYZ INTELLIGENT GAS ROTARY FLOWMETER



Product overview

ZYZ series intelligent gas waist wheel flow meter is a volumetric flow meter that accurately measures the passage of gas. This product integrates flow, pressure, and temperature detection functions, and can automatically compensate for pressure, temperature, and compression factor. High precision, wide range, high reliability and long life. It is suitable for the measurement of gas flow in closed pipelines, and can be widely used for the flow measurement of non-corrosive gases such as natural gas, coal gas, inert gas, and air. It is an ideal flow metering device for petroleum, chemical, industrial, civil boilers, gas surge tanks, scientific research and other departments. As a traditional volumetric instrument, it adopts the working principle of rotating fixed displacement. Its accuracy is composed of a pair of precision-machined rotors and a solid measuring chamber to ensure permanent non-adjustable high precision.

The metering accuracy is not affected by the changes in gas specific gravity, pressure and flow rate. It is especially suitable for high-precision, medium flow metering range. It has a compact and firm structure and does not require a straight pipe at the inlet. It is suitable for installation in a narrow environment.

This product has been approved by the national explosion-proof product quality inspection department in accordance with GB3836.1-2010 "Explosive Environment Part 1: General Requirements for Equipment" and GB3836.4-2010 "Explosive Environment Part 4: Equipment Protected by Intrinsically Safe "i" Standard inspection is qualified.

Maximum operating pressure : 16 bar (g)

Operating temperature range: -25°C ~ 55°C

Ambient temperature range : -25°C ~ 55°C

Product Performance

- High strength

The shell adopts high-strength aluminum alloy profiles to increase the wall thickness, so that it can withstand the stress generated during installation, and can ensure long-term dimensional stability and measurement accuracy.

- Optimize the rotor structure

The rotor head profile is optimized to change the seal type between the rotor and the shell from line seal to face seal, which improves the sealing effect and expands the scope of the instrument.

- Longer service life

The surface of the shell and the rotor has been specially chemically treated to form a hard oxide film on the surface to enhance wear resistance and corrosion resistance. There is no wear and no contact seal between the rotor and the rotor to ensure long-term stable operation.

- High precision and high reliability

Imported high-precision ball bearings have permanent high precision without adjustment, and are not affected by changes in medium conditions, ensuring long-term accuracy of the product.

- Greater range

The range of different specifications and models can reach 160:1 or even 250:1, which can be suitable for measuring gas flow with large load changes.

- Good versatility

All flow sensors, pressure sensors, temperature sensors, etc. can use general accessories.

- Low pressure loss

The pressure loss of flowmeters of different specifications is 0.05kPa ~ 0.5kPa.

- High performance and low power consumption

Adopting advanced microcomputer technology and high-performance integrated chip, the whole machine has powerful functions and superior performance. Using micro-power circuit design, the whole machine has low power consumption, and the built-in battery can run continuously for more than 5 years.

- The motherboard is stable and reliable

The main board of the circuit adopts surface mount technology, the whole machine has compact structure, strong anti-interference ability and high reliability.

- Independent battery compartment

Easy to install, users can replace the battery without affecting the use of the motherboard.

Specifications

Item	caliber (DN)	Flow range (m³/h)	Ratio	Starting flow (m³/h)	Cycle Volume (L)	Pressure lose (Pa)	Max Speed (RPM)
G6	20	0.25-10	40:1	0.02	0.22	45	757
G10	25	0.4-16	40:1	0.02	0.22	50	1212
G16		0.4-25	65:1	0.02	0.22	60	1890
G16	40	0.4-25	65:1	0.02	0.22	50	1890
G25		0.4-40	100:1	0.02	0.22	60	3030
G25	50	0.65-40	65:1	0.06	0.7	70	1130
G40		0.65-65	100:1	0.06	0.7	260	1836
G65		0.65-100	160:1	0.06	0.7	450	2824
G65	80	0.65-100	160:1	0.09	1.1	180	1766
G100		0.65-160	250:1	0.09	1.1	300	2826
G160	80	1.65-250	160:1	0.5	2.06	350	2026
G160	100	1.65-250	160:1	0.55	2.55	320	1635
G250	100	2.65-400	160:1	0.6	3.97	500	1680
G400	100	4-650	160:1	0.6	3.97	530	2728
G400	150	4-650	160:1	0.6	13.06	500	829
G650	150	6.5-1000	160:1	0.65	16.16	550	1031
G1000	200	10-1600	160:1	0.7	19.9	550	1340

I) Accuracy class 1.0 : $0.05Q_{\max} \leq Q \leq Q_{\max}$ is $\pm 1.0\%$, $Q_{\min} \leq Q < 0.05Q_{\max}$ is $\pm 2.0\%$
 1.5: $0.05Q_{\max} \leq Q \leq Q_{\max}$ is $\pm 1.5\%$, $Q_{\min} \leq Q < 0.05Q_{\max}$ is $\pm 3.0\%$;

II) Repeatability: better than 0.2%;

III) Short-term overload: can withstand 30 minutes of operation under $1.25Q_{\max}$, the meter will not be damaged;

IV) Pressure rating (MPa): 1.6

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