

Расходомеры газотурбинные интеллектуальные ZTZ

Технические характеристики

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ZENNER ZTZ INTELLIGENT GAS TURBINE FLOWMETER



Product Overview

The ZTZ series gas turbine flowmeter is developed by our company in accordance with GB/T18940-2003/ISO9951 "Turbo Flowmeter for Measuring Gas Flow in Closed Pipes" and combined with the advanced technology of various flow meters at home and abroad. It integrates temperature, pressure, flow A new generation of high-precision, high-reliability precision metering instrument that integrates a sensor and an intelligent flow totalizer. Excellent low- and high-pressure metering performance, multiple signal output modes and low sensitivity to fluid disturbances make the ZTZ series flowmeter a particularly high-quality commercial trade meter.

This flow meter is widely used in: city pipeline (network) gas measurement, industrial gas measurement, gas pressure regulating station measurement, energy management, and other non-corrosive gas measurement or flow control and other places.

Implement the national standard GB/T18940-2003 "Turbine Flowmeter for Measurement of Gas Flow in Closed Pipes" and implement the enterprise standard Q ZLLJ/02-2017 "Gas Turbine Flowmeter" JJG 1037-2008 "Turbine Flowmeter Calibration Regulations" and DOSH approval.

Performance characteristics

- Meet the technical requirements of ISO9951 standard

The length of the meter body is 3DN (DN is the nominal diameter of the flow meter, DN250 and DN300 are 1.5DN), and it has passed high- and low-level disturbance tests.

- Wide flow range

It has a wide flow range ($Q_{max}/Q_{min}=20:1$), good repeatability, high accuracy (up to level 1.0), small pressure loss, and low starting flow rate.

- Adopt integrated design

The use of integrated pilot fluid can eliminate fluid disturbance, achieve significant rectification effect, and have extremely small pressure loss, requiring low installation requirements for the straight pipe sections before and after the flow meter.

- Adopt modular design

The removable independent watch core component module has a compact structure, is easy to install and maintain, and is not affected by pipeline stress; the independent shell component module

can be used for air tightness inspection alone, simplifying the process; the independent fuel pump and gauge components, each It has strong interchangeability between calibers, compact structure and easy maintenance.

- Automatic flow tracking compensation and compression factor correction

It can directly detect the temperature, pressure and flow of the gas being measured, perform automatic flow tracking compensation and compression factor correction, and display the accumulated gas volume under standard conditions ($P_b=101.325\text{kPa}$, $T_b=293.15\text{K}$).

- Long service life

A set of lithium batteries can be used continuously for more than five years, and has a two-level alarm output function for battery undervoltage, which is more suitable for use with an IC card management system.

- Easy to read

The intelligent volume corrector can be positioned at any angle (rotation angle is 350°), making it easy to read the flow meter under various installation conditions.

- High protection level

The instrument has explosion-proof and protection functions, the explosion-proof mark is Ex IA IIC T4 Ga, and the protection grade is IP66. According to user requirements, GSM network functions can be provided to realize low-cost long-distance wireless data transmission.

Specifications:

Item	DN (mm)	Flow range (m³/h)	Qt (m³/h)	Pressure class (MPa)	Accuracy class		Pressure lose at Qmax (kPa)	Material of casing
					Class 1.0	Class 1.5		
ZTZ-50S ZTZ-50M ZTZ-50L	50	6 ~ 65 8 ~ 100 10 ~ 160	13 20 32	1.6 2.5 4.0	Class 1.0 Qmin ~ 0.2Qmax ±2.0% 0.2Qmax ~ Qmax ±1.0%	Class 1.5 Qmin ~ 0.2Qmax ±3.0% 0.2Qmax ~ Qmax ±1.5%	0.9 1.5 2.2	≤1.6 MPa Aluminum alloy > 1.6 MPa
ZTZ-80S ZTZ-80M ZTZ-80L	80	8 ~ 160 13 ~ 250 20 ~ 400	32 50 80				1.2 1.6 2.3	
ZTZ-100S ZTZ-100M ZTZ-100L	100	13 ~ 250 20 ~ 400 32 ~ 650	50 80 130				0.8 1.6 2.4	
ZTZ-150S ZTZ-150M ZTZ-150L	150	32 ~ 650 50 ~ 1000 80 ~ 1600	130 200 320	1.6 2.5 4.0			0.45 0.9 2.2	Carbon steel stainless steel
ZTZ-200S ZTZ-200M ZTZ-200L	200	50 ~ 1000 80 ~ 1600 125 ~ 2500	200 320 500				0.36 0.9 2.1	
ZTZ-250S ZTZ-250M ZTZ-250L	250	80 ~ 1600 125 ~ 2500 200 ~ 4000	320 500 800				1.0 2.0 2.4	Carbon steel stainless steel
ZTZ-300S ZTZ-300M ZTZ-300L	300	125 ~ 2500 200 ~ 4000 320 ~ 6500	500 800 130				1.8 2.0 2.4	

a The pressure loss value is the data of medium density=0.8kg/m³

① The flow range listed in the table is the flow range when the product is checked out of the factory ($p=1.205\text{kg/m}^3$ under normal temperature and normal pressure);

② As the pressure increases, the flow range also expands;

③ S, M and L respectively represent the smaller, medium and larger flow ranges of the same caliber;

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