

Product overview

The FPR thermal gas mass flowmeter is produced by introducing the foreign advanced technology and used to directly measure the mass flow rate of the fluid without temperature and pressure compensation. It's free from movable parts with small pressure loss, wide range ratio, high precision and reliability, simple installation and convenient operation. It can comprehensively replace the pore plate and differential pressure flowmeter in all fields. It's widely used for the industries, such as steelworks, coking plant, petroleum, chemical engineering, heating power, medical treatment, electric power, lithium battery new energy and environmental protection.

Product features

- Ambient temperature: $-40^{\circ}\text{C}\sim+60^{\circ}\text{C}$;
- Medium temperature $-10^{\circ}\text{C}\sim+500^{\circ}\text{C}$;
- Accuracy: $\pm 1\%$ reading and $\pm 0.5\%$ full range;
- Repetition: $\pm 0.5\%$ full range;
- Response speed: $\leq 1\text{S}$;
- Straight pipe length: No strict requirement;
- Pressure loss: Negligible;
- Operating pressure: 1.6MPa and 7.3MPa;
- On-site display: LED display and LCD display;
- Protection grade: IP65;
- Measuring range: (0.05~80) Nm/s (standard state: 20°C , 101.33KPa)
- Output: 4-20mA DC (maximum load: 600 Ω), RS232; RS485;
- Sensor and pipeline surface material: 316L (hastelloy C is optional);
- Data protection: The accumulative quantities are stored in EEROM (storage for one hundred years at the moment of outage)



Product model selection

FPR	Thermal gas mass flowmeter					
	Nominal diameter *** (100 indicates pipeline nominal diameter: DN100)					
		Installing form R Pipeline type: 1 Flange type 2 Clamp type G Plug-in type: 1 Threaded connection 2 Flange connection 3 Flanged ball valve connection				
		Temperature range A $-40^{\circ}\text{C}\sim+100^{\circ}\text{C}$ B $-40^{\circ}\text{C}\sim+200^{\circ}\text{C}$ C $-40^{\circ}\text{C}\sim+450^{\circ}\text{C}$ D $-40^{\circ}\text{C}\sim+510^{\circ}\text{C}$				
		Nominal pressure A 0~0.6MPa B 0~1MPa C 0~1.6MPa D 0~2.5MPa E 0~4MPa F 0~6.4MPa G 0~10MPa H 0~16MPa				
		Technological conditions 1 Common 2 Corrosion prevention 3 Explosion proofing 4 High temperature				
		Signal output: 1 No output 2 4~20Ma 3 RS485 MODBUS				
		Power supply mode A 220VAC D 24VDC				
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