

## Thermal Gas Mass Flowmeter

### Features:

1. Apply high stability and patented technology platinum RTD sensor
2. Uses proprietary technology "balanced structure package", medium temperature self-compensation.
3. Proprietary algorithms; can achieve high linearity, high repeatability, high precision.
4. Range ratio 1000:1, also can be expanded according to user requirements.
5. Enables measurement of small flow large diameter, minimum flow rate can be measured as low as zero, resolution 0.001m/s.
6. No moving parts, vibration can be neglected.
7. Straight pipe less demanding 1-2D.
8. Unrelated with the medium temperature and pressure.
9. Proprietary high-temperature method, medium temperature up to +510 .
10. Humidity algorithm used to achieve high precision measurement.
11. Flow signal enter 12-point dynamic correction, built-in 10-point amendment.
12. Dynamic on-line correction current / voltage output.
13. Don't sensitive to dust and other small particles.
14. On-line continuous flow, easy handling and maintenance.



**Structural forms:** Integrated insert , pipeline

### Performance:

- \* **Measuring range:** 0~120Nm/s (20C,101.33Kpa)
- \* **Accuracy:** ± 1% of reading ± 0.5% full scale
- \* **Range ratio:** usually 100:1 (depending on the calibration of flow range)
- \* **Diameter range:** 10mm ~ 6000mm
- \* **Application scope:** suitable for all types of single or mixed gases, containing dust, sand, moisture and various corrosive gases.
- \* **Environmental temperature range:** -40 ~ +85 (no display); -30 ~ +70 (showing); humidity is less than 90% RH.
- \* **Medium temperature range:** -40 ~ +100 ; -40 ~ +200 ; -40 ~ +450 ; -40 ~ +510
- \* **Sensor Diameter:** 3, 2.5
- \* **Plug-in sensor probe rod diameter:** 19 (standard), 16, 12
- \* **Sensor Material:** 316 stainless steel, Hastelloy, Titanium
- \* **Probe rod material (protection cover):** 316 stainless steel (standard), Hastelloy
- \* **Medium bi-directional flow measurement**
- \* **Analog Output:** Flow :4-20mADC, temperature :4-20mADC, maximum load: 1000Ω
- \* **Accumulated pulse output**

- \* **Type 12 non-linear correction, built-in 10 non-linear correction**
- \* **Communication:** Serial output RS232/RS485
- \* **Power supply:** 24VDC/600mA; 220VAC/2W; 110VAC/3W
- \* **Alarm:** 1-2-way relay output, 5A/220V, 5A/30VDC, type settings
- \* **Large-screen LCD Display:** 7 instantaneous flow, 8 cumulative flow rate
- \* **Process Pressure:** 1.6Mpa (maximum 20MPa)
- \* **Installation Process Type:** Plug-in (card sets, card sets + ball valve, flange connection), pipeline type (flange, screw connection)
- \* **Explosion-proof grade:** intrinsically safe (ia CT5), explosion-proof type (Exd CT4)
- \* **Protection class:** IP65

Product Selection:

<b>Thermal Gas Mass Flow Meter</b>				
<b>DN</b>	-XXX	100 indicate DN100		
<b>Installation Type</b>	G	Pipe Line		
	C	Plug-in	1	Screwed connection
			2	Flange connection
<b>Nominal pressure</b>	A	0~0.6MPA		
	B	0~1.0MPA		
	C	0~1.6MPA		
	D	0~2.5MPA		
	E	0~4.0MPA		
	F	0~6.4MPA		
	G	0~10MPA		
	H	0~16MPA		
<b>Process conditions</b>	0	Normal		
	1	anti-corrosion		
	2	Anti-explosion		
	3	High temperature		
<b>Signal output</b>	A	No		
	B	4~20MA		
	C	RS485 MODBUS		
<b>Power Supply</b>	1	220V AC		
	2	24V DC		