



Thermal Gas Mass Flow Meters



Features

Thermal gas mass flow meter is a flow meter that uses the principle of heat conduction to directly measure gas mass flow. No temperature compensation or pressure compensation is required.

- Wide range ratio, can measure gas with flow rate as high as 120Nm/s and as low as 0.1Nm/s. Can be used for gas leak detection.
- Good seismic resistance and long service life. The sensor has no moving parts and pressure sensing parts, and is not affected by vibration on measurement accuracy.
- Easy to install and maintain. If site conditions permit, non-stop installation and maintenance can be achieved. (Special customization required)
- Digital design. Overall digital circuit measurement, accurate

- measurement and easy maintenance.
- The thermal gas mass flow meter adopts RS-485 communication or HART communication. It can realize factory automation and integration.
- The power supply is optional AC220V, DC24V or AC220V, DC24V dual power supply.

Specifications

| Measuring medium | Single-component and multi-component gases (except acetylene gas) |
|-----------------------|--|
| Pipe diameter range | Round tube DN10~4000mm or square tube |
| Flow rate range | 0.0~120Nm/s |
| Accuracy | Relative error ±1.5% |
| Operating temperature | Normal temperature type: -40 \sim 100 $^{\circ}$ C High temperature type -40 \sim 220 $^{\circ}$ C |
| work pressure | Medium pressure ≤1.6MPa (2.5Mpa , 4Mpa other pressures can be customized) |
| Power supply | DC24V or AC220V |
| responding speed | 1S |
| output signal | 4-20mA (photoelectric isolation, maximum 500Ω load), RS-485 (MODBUS) (photoelectric isolation), pulse, HART, etc. optional |
| Pipe material | Materials suitable for measuring pipes: carbon steel, |



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| | stainless steel, plastic, etc. |
|-----------------------------|--|
| display | Four-line LCD display |
| Display content | Standard voltage, instantaneous flow, cumulative total, standard flow rate, etc. |
| Protection level | IP65 |
| Explosion-proof level | ExdIICT4 |
| Sensor material | 316L or Hastelloy |
| Alarm Output | 1~2 way relay open contact 10A/220V/AC 5A/30V/DC |
| Installation interface form | Pipe flange type, threaded type, clamp type, plug-in type, plug-in type with ball valve, flange plug-in type |

Flow range

| Diameter DN mm | Flow Range (Nm³/h) |
|-------------------|----------------------|
| DN10 | 0.3-30 |
| DN15 | 0.6-60 |
| DN20 | 1.1-110 |
| DN25 | 1.8-180 |

| DN32 | 2.9-290 |
|-------|-----------|
| DN40 | 4.5-450 |
| DN50 | 7-700 |
| DN65 | 12-1200 |
| DN80 | 18-1800 |
| DN100 | 28-2800 |
| DN125 | 44-4400 |
| DN150 | 64-6400 |
| DN200 | 130-13000 |
| DN250 | 170-17000 |
| DN300 | 254-25400 |