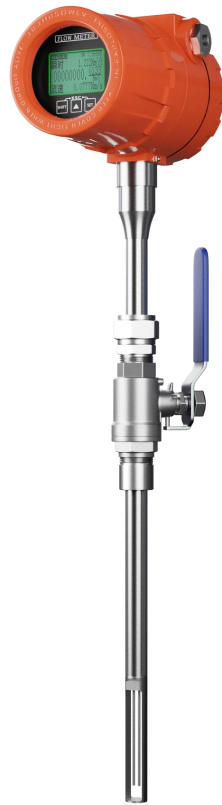


Datasheet

Thermal mass flow meter

MF series



Datasheet

Thermal mass flow meter SUP-MF

The thermal mass flow meter is designed based on the principle of thermal diffusion. The instrument uses the constant temperature difference method to accurately measure the gas. It has the advantages of small size, high degree of digitization, convenient installation and accurate measurement.

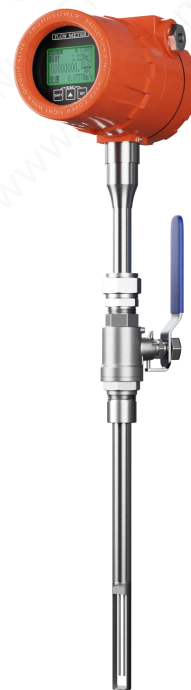
Reduce your energy costs and increase your sustainability. Monitor your consumption and analyze your leakage flows with just one measuring device.

Applications

- Compressed air measurement.
- Sewage treatment aeration measurement
- Flue gas emission measurement
- Chimney flue exhaust monitoring

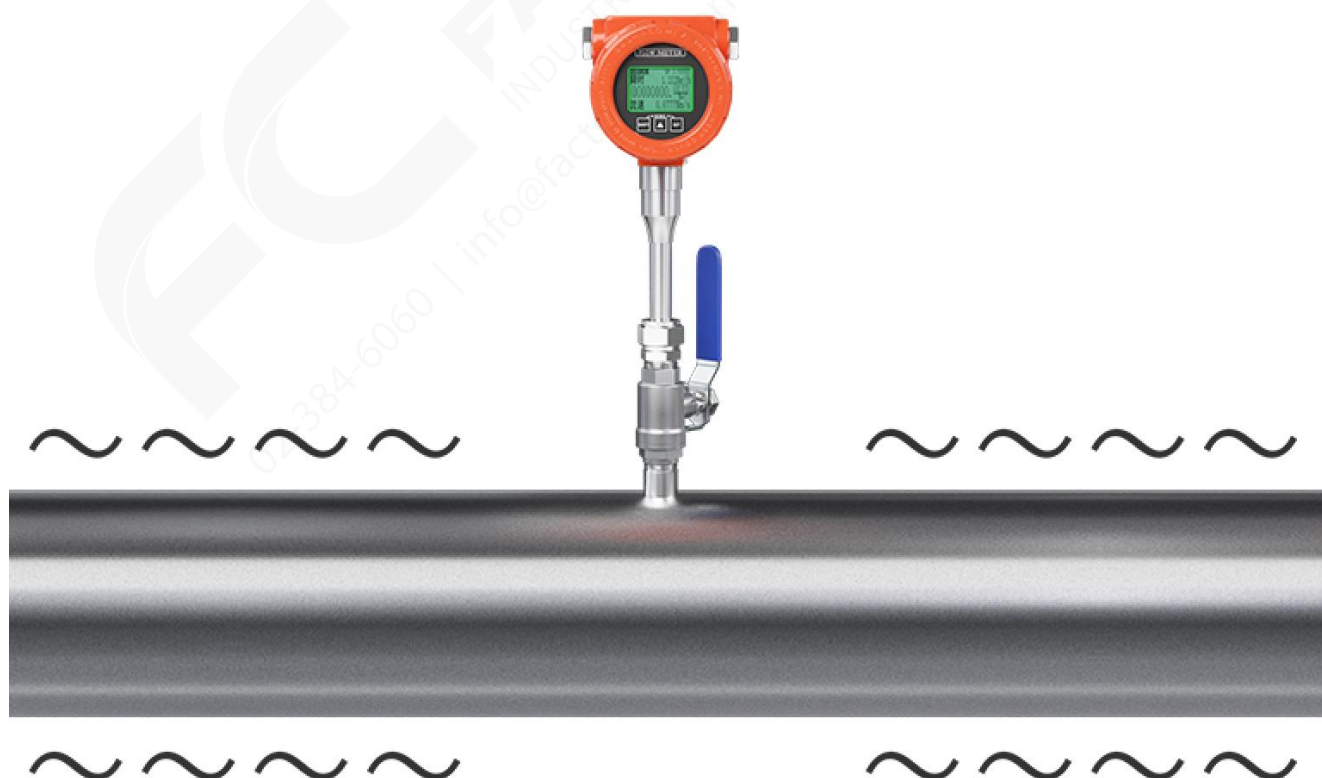
Features

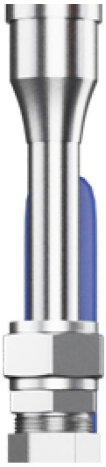
- Without temperature and pressure compensation
- Wide range: 0.5Nm/s~100Nm/s
- Vibration resistance and long service life
- Easy installation and maintenance
- Digital circuit, accurate measurement
- With RS485 communication



Thermal mass flow meter

| Parameters | |
|---------------------|---|
| Type | Insertion |
| Medium | Steady-state gases (except unstable media as acetylene and boron trichloride etc) |
| Diameter | DN65~DN1000 |
| Flow rate | 0.1~100 Nm/s |
| Accuracy | ±2.5% |
| Working temperature | Sensor: (-40~+300) °C Converter: (-20~+45) °C |
| Working pressure | ≤2.5MPa |
| Power supply | 220VAC 24VDC; 18W |
| Respond time | 1s |
| Signal output | 4~20 mA |
| Communication | RS485 |
| Relay | 1~2 relay optional |
| Local display | LED display |
| Ingress protection | IP65 |
| Sensor material | Stainless steel |





Shield Rod



Ball valve

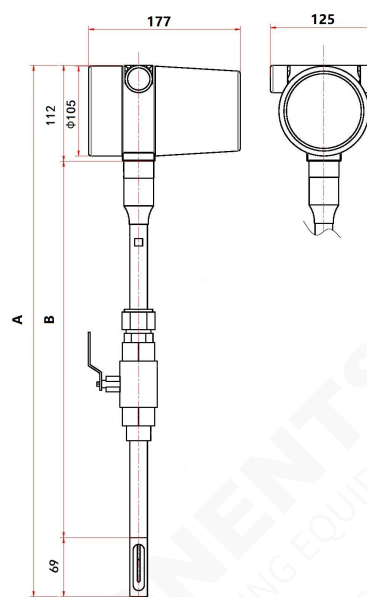
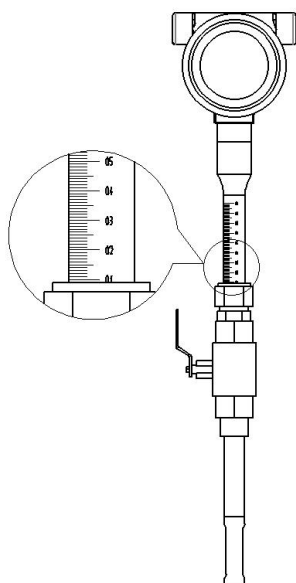


Sensor



| Flow range | | | | |
|------------|-----------------------------|--|--------------------------------|---|
| Diameter | Air (Nm ³ /h) | Extended range (Nm ³ /h) | Oxygen (Nm ³ /h) | Combustible gas (Nm ³ /h) |
| 10 | 0.5~28 | 0.03~30 | 0.5~14 | 0.5~5 |
| 15 | 0.5~65 | 0.07~65 | 0.5~32 | 0.5~10 |
| 20 | 0.5~100 | 0.12~110 | 0.5~55 | 0.5~20 |
| 25 | 0.5~175 | 0.18~180 | 0.5~89 | 0.5~28 |
| 32 | 0.5~290 | 0.3~290 | 0.5~144 | 0.5~45 |
| 40 | 0.5~450 | 0.5~450 | 0.5~226 | 0.5~70 |
| 50 | 1~600 | 0.5~700 | 0.7~352 | 0.7~110 |
| 65 | 1.5~1000 | 1~1200 | 1.2~600 | 1.2~185 |
| 80 | 2~1500 | 1.5~1800 | 2~900 | 2~280 |
| 100 | 3~2300 | 3~2800 | 3~1420 | 3~470 |
| 125 | 4.5~3500 | 4~4400 | 4.5~2210 | 4.5~700 |
| 150 | 6.5~5200 | 6~6300 | 6.5~3200 | 6.5~940 |
| 200 | 12~9000 | 12~11500 | 12~5650 | 12~1880 |
| 250 | 18~14500 | 18~17500 | 18~8830 | 18~2820 |
| 300 | 25~21000 | 25~25000 | 25~12720 | 25~4060 |
| 350 | 35~28000 | 35~34500 | 35~17000 | 35~5600 |
| 400 | 45~36500 | 45~45000 | 45~22600 | 45~7200 |
| 450 | 60~46500 | 60~57000 | 60~29000 | 60~9200 |
| 500 | 70~57000 | 70~70000 | 70~35300 | 70~11280 |
| 600 | 100~81000 | 100~101000 | 100~50600 | 100~16300 |
| 700 | 140~110000 | 140~138000 | 140~69000 | 140~22100 |
| 800 | 180~150000 | 180~180000 | 180~90000 | 180~29000 |
| 900 | 230~185000 | 230~230000 | 230~115000 | 230~36500 |
| 1000 | 290~230000 | 290~280000 | 290~140000 | 290~45500 |

Dimension



Ordering code

| MF-DN65-M1-S1-MM1-J9-DT1-01-D2-I3-V1-DQ1-P1-T0-IP1 | | | | | | | | | | Description | |
|--|------|---|---|---|---|---|---|---|---|-------------|---------------------|
| MF | - | - | - | - | - | - | - | - | - | - | DN65~DN1000 |
| Pipe size | DNXX | | | | | | | | | | Compact type |
| Meter type | M1 | | | | | | | | | | Insertion |
| Installation method | S1 | | | | | | | | | | Gas |
| Medium | MM1 | | | | | | | | | | 2.5% |
| Accuracy | J9 | | | | | | | | | | Local display |
| Display type | DT1 | | | | | | | | | | 4~20mA |
| Signal output | 01 | | | | | | | | | | RS485 |
| Communication | D2 | | | | | | | | | | Thread + ball valve |
| Installation type | I3 | | | | | | | | | | Flange+ ball valve |
| | I4 | | | | | | | | | | 24VDC |
| Power supply | V1 | | | | | | | | | | 220VAC |
| | V2 | | | | | | | | | | Stainless steel |
| Sensor material | DQ1 | | | | | | | | | | -0.1MPa~0MPa |
| Pressure range | P0 | | | | | | | | | | 1.6MPa |
| | P1 | | | | | | | | | | -20~150°C |
| Temperature range | T0 | | | | | | | | | | 150~220°C |
| | T1 | | | | | | | | | | 220~300°C |
| | T2 | | | | | | | | | | IP65 |
| Ingress protection | IP1 | | | | | | | | | | |