



### > Description

These instruments are used to monitor the density of SF<sub>6</sub> gas in sealed tanks. They are applied to indicate the gas density and reliably output SF<sub>6</sub> gas density signal for remote monitoring. They can be widely used in monitoring medium voltage system. They can provide multiple solutions to support new substations and the intelligent transformation of existing substations.

### > Application

SF<sub>6</sub> gas Insulated RMU  
SF<sub>6</sub> gas Insulated Switchgear

### > Features

1. The temperature compensation device ensures higher measurement accuracy
2. The RS485 remote function ensures remote monitoring
3. Suitable for indoor or outdoor installation
4. AISI 304 hermetically sealed stainless steel case
5. Gas connection tubes are made of AISI 316 stainless steel
6. The on-screen display value and output signals are independent of the impact of external environment, such as altitude

### > Options

Measurement Medium: SF<sub>6</sub>, Air, N<sub>2</sub>, SF<sub>6</sub> + N<sub>2</sub> and other gases

### > Technical Data

1. Case diameter: Ø64mm	9. Process connection: M20×1.5 (customizable)
2. Case material: Stainless steel	10. Installation method: radial or axial
3. Scale range: 0 to 2bar (abs.) or -1 to 6bar	11. Insulation properties: Insulation resistance: >100 MΩ (500 V DC) Withstand voltage: 2kV, 50/60 Hz 1 min
4. Accuracy: Class 1.0 or 1.5 at 20°C; Class 2.5 at -40°C to +60°C	12. Contact electrical parameters: Power: 30VA Maximum operating voltage: 380V Maximum current: 1A
5. Ambient conditions: -40°C to +60°C, relative humidity ≤ 95%RH	13. Weight: 0.3kg
6. Degree of protection: IP65	14. Pressure element: Bourdon tubes
7. Leakage rate: ≤1 × 10 <sup>-9</sup> Pa·m <sup>3</sup> /s (Helium leakage inspection)	
8. Contact type: Magnetic snap-action contact (Maximum three groups, normally open or normally closed)	

### > Main electrical performance indicators and specifications of the remote transmission part

- |                              |                                       |
|------------------------------|---------------------------------------|
| 1. Power supply: DC 24V      | 6. Anti-electromagnetic interference: |
| 2. Power consumption: < 2W   | IEC61000-4-2: level 4 (15kV)          |
| 3. Communication mode: RS485 | IEC61000-4-3: level 3 (10V / m)       |
| 4. Protocol: ModBus RTU      | IEC61000-4-4: level 4 (4kV)           |
| 5. Baud rate: 9600bps        | IEC61000-4-5: level 3 (+/- 2kV)       |
|                              | IEC61000-4-6: level 3 (10V)           |
|                              | IEC61000-4-8: level 5 (100A / m)      |

### > Dimensions

