

ZMJ100P DENSITY MONITOR



> Description

These instruments are used to monitor SF₆ gas density in sealed tanks. They are applied to indicate the gas density and to provide a signal outputs when the density reaches the set value. They are designed to monitor High Voltage systems. They can provide multiple solutions to support new substations and the intelligent transformation of existing substations.

> Application

SF₆ Gas Insulated Switchgear (GIS) SF₆ Insulated Transformers
 SF₆ Insulated Circuit Breakers SF₆ Insulated Mutual Inductor
 SF₆ Insulated Pole-Mounted Switch SF₆ Insulated Busbar Systems

> Features

1. The temperature compensation device ensures higher measurement accuracy.
2. Suitable for indoor or outdoor installation
3. AISI 304 hermetically sealed stainless steel case
4. Gas connection tubes are made of AISI 316 stainless steel
5. The on-site display value and the output signals are not affected by the external environment (altitude factor, etc.)
6. Electric contact switch design can ensure the precise and stable SF₆ gas density monitoring
7. Up to Four switch contacts can achieve overpressure alarm, dual alarm or double locking and many other solutions, ensuring the monitoring more secure and reliable

> Options

1. Oil-filled
2. Full Range Indication: Class 1.0
3. Power-frequency withstand voltage: 2.5kV 50/60 Hz 1min
4. Wide temperature range: -60°C to +60°C
5. Can detect SF₆, Air, N₂, SF₆ + N₂ and other gases

> Technical Data

1. Case diameter: 100mm	9. Insulation properties:
2. Scale range: -0.1 to 0.9 MPa (customizable)	Insulation resistance: >100 MΩ (DC 500V)
3. Accuracy: (related to the measuring span; SF ₆ in gas phase)	Withstand voltage: 2kV, 50/60 Hz 1 min
a) At 20°C: Class 1.0 or 1.5	10. Contact type: Magnetic snap-action contact
b) -40°C to +60°C: Class 2.5	80%Ag, 20%Ni, 10μm Au plated
4. Degree of protection: IP65	11. Impact rating: 50g (oil-filled), 30g (non-oil-filled)
5. Ambient conditions: -40°C to +60°C, relative humidity ≤95%RH	12. Contact electrical parameters: 30W/50VA, 1A (maximum)
Leakage rate: ≤1 × 10 ⁻⁹ Pa·m ³ /s (Helium leakage inspection)	220VDC/380V 50/60Hz (maximum)
6. Process connection: M20 × 1.5, (customizable)	13. Window glass: Laminated safety glass
7. Installation method: radial or axial	14. Weight: 1.0kg
8. Electrical connection: Plug-in connection M20 × 1.5 sealing head	15. Pressure element: Bourdon tubes
Cable size: 1.5mm ² recommended, 2.5mm ² maximum	

> Dimensions

