

ZMJ100XD Density Monitor



Description

ZMJ100XD Density Monitors are used to monitor SF₆ gas density in sealed tanks. They are applied to indicate the gas density and to provide signal outputs when the density reaches the set values. They are designed to monitor High Voltage systems. They can provide multiple solutions to support new substations and the renovation and upgrading of existing substations

Features

- Higher accuracy from reference chamber temperature compensation technology .
- Class 1.0 display accuracy for full scale range.
- Suitable for indoor or outdoor installation.
- More accurate gauge indication values and contact switching values throughout the temperature range.
- Micro-switch that can switch freely between normally open and normally closed points.
- Up to 4 sets of switch contacts, multiple options such as double alarms and double locks can be realized, making monitoring more secure and reliable.
- High shock resistance. No need to fill oil, no oil leakage hazard.
- Normally closed contacts will not falsely alarm due to vibration.

Application

- SF₆ Gas Insulated Switchgear (GIS)
- SF₆ Insulated Circuit Breakers
- SF₆ Insulated Pole-Mounted Switch
- SF₆ Insulated Transformers
- SF₆ Insulated Current Transformers or Voltage Transformers
- ☒ SF₆ Insulated Busbar Systems

Options

- Different measuring ranges
- Wide temperature range:Optional-40° C ~ +70° C
- Measuring medium: SF₆、 Air、 N₂、 SF₆+N₂ and other gases

Technical Parameters	
Scale range	-0.1 ~ 0.9MPa (customizable)
Accuracy of set point	±1.0%FS(+20±1°C) ±1.6%FS (-30°C~ +60°C) (gas phase)
Accuracy of indication	Rated pressure: ±1.0%FS (+20±1°C) ±1.8%FS (-20°C~ +60°C) (gas phase) ±2.3%FS (-30°C~ -20°C) (gas phase)
Degree of protection	IP65
Ambient conditions	-20° C ~ +60° C, relative humidity ≤ 95%RH
Leakage rate	≤ 1×10 ⁻⁹ Pa·m ³ /s (Helium leakage inspection)
Process connection	M20×1.5, (customizable)
Installation method	Radial or Axial
Electrical connection	Pluggable seven-pin connector
Insulation properties	Insulation resistance: >100 MΩ ☒ (DC 500V) Withstand voltage: 2kV, 50/60 Hz,1min
Contact type	Micro switch
Impact rating	50g
Contact ratings	10(1.5)A,250V AC 0.1 (0.05)A,250V DC
Window Glass	Laminated safety glass
Weight	≈ 1.0kg
Pressure element	Bellow and Bourdon Tube

Dimensions

