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## ZMJ60XD DENSITY MONITOR



### > Description

These instruments are used to monitor SF<sub>6</sub> 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

SF <sub>6</sub> Gas Insulated Switchgear (GIS)	SF <sub>6</sub> Insulated Transformers
SF <sub>6</sub> Insulated Circuit Breakers	SF <sub>6</sub> Insulated Mutual Inductor
SF <sub>6</sub> Insulated Pole-Mounted Switch	SF <sub>6</sub> Insulated Busbar Systems

### > Features

1. Gas compensation ensures higher set point accuracy
2. Suitable for different indoor and outdoor installation needs
3. Micro switch enables normally open contacts and normally closed contacts freely switch to each other.
4. 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
5. High shock resistance
6. Without oil, no leakage risks
7. Normally closed contacts will not trigger false alarms due to vibration

### > Options

1. Measurement range
2. Wide temperature range: -60°C to +60°C
3. Can detect SF<sub>6</sub>, Air, N<sub>2</sub>, SF<sub>6</sub> + N<sub>2</sub> and other gases

### > Technical Data

1. Scale range: -0.1 to 0.9MPa	9. Insulation properties:
2. Accuracy of set point: ±10 kPa (-30 to +50 °C)	Insulation resistance: >100 MΩ (DC 500V)
3. Accuracy of indicator: ±10 kPa at 20 °C (within scale range)	Withstand voltage: 2kV, 50/60 Hz 1 min
4. Degree of protection: IP65	10. Contact type: Micro contact
5. Ambient conditions:	11. Impact rating: 50g
-40°C to +60°C, relative humidity ≤ 95%RH	12. Contact electrical parameters:
Leakage rate: ≤1×10 <sup>-9</sup> Pa·m <sup>3</sup> /s (Helium leakage inspection)	30W/50VA, 1A (maximum)
6. Process connection: M20 × 1.5 (customizable)	220VDC/380V 50/60Hz (maximum)
7. Installation method: radial or axial	13. Window glass: Laminated safety glass
8. Electrical connection: Plug-in connection M20 × 1.5 sealing head	14. Weight: 1.0kg
Cable size: 1.5mm <sup>2</sup> recommended, 2.5mm <sup>2</sup> maximum	15. Pressure element: Corrugated types

### > Dimensions

