

# Description

ZMJ100XD Density Monitors are used to monitor  $SF_6$  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

ZMJ100XD Density Monitor

#### 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.

#### Technical Parameters

Scale range

Accuracy of set point

 $\label{eq:constraint} \mbox{Accuracy of indication}$ 

Degree of protection

Ambient conditions

Leakage rate

Process connection

Installation method

Electrical connection

Insulation properties

Contact type

Impact rating

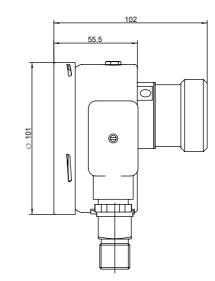
Contact ratings

Window Glass

Weight

Pressure element

# Dimensions



## Application

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

# Options

- Different measuring ranges
- $\blacksquare$  Wide temperature range:Optional-40° C  $\sim$  +70° C
- Measuring medium: SF<sub>6</sub>, Air, N<sub>2</sub>, SF<sub>6</sub>+N<sub>2</sub> and other gases

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-0.1 \sim 0.9 MPa (customizable)
±1.0%FS(+20±1°C)
\pm 1.6\%FS (-30°C\sim +60°C) (gas phase)
Rated pressure: \pm 1.0\%FS (+20\pm 1^{\circ}C)
\pm 1.8\%FS (-20°C\sim +60°C) (gas phase)
\pm 2.3\%FS (-30°C\sim -20°C) (gas phase)
IP65
-20° C \sim +60° C, relative humidity \leq 95%RH
\leq 1 \times 10^{-9} \text{Pa} \cdot \text{m}^3/\text{s} (Helium leakage inspection)
M20×1.5, (customizable)
Radial or Axial
Pluggable seven-pin connector
Insulation resistance: >100 MΩ (DC 500V)
Withstand voltage: 2kV, 50/60 Hz,1min
Micro switch
50g
10(1.5)A,250V AC
0.1 (0.05)A,250V DC
Laminated safety glass
\approx 1.0kg
Bellow and Bourdon Tube
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