

# ZMJ80XDR Density Monitor

**LANSO**<sup>®</sup>  
SF<sub>6</sub> measuring



## Options:

- Different measuring ranges
- Can detect SF<sub>6</sub>, Air, N<sub>2</sub>, SF<sub>6</sub>+N<sub>2</sub> and other gases

## Technical Data

**Scale range:** -0.1 to 0.9MPa (customizable)

**Set point Accuracy:**  
-30 ~ +50°C, ±1.0%FS (±10KPa) (gas phase)

**Indication accuracy:**  
a) +20±1°C, ±1.0%FS (±10KPa, 0~0.9MPa abs.)  
b) +20±1°C, ±1.5%FS (±15KPa, 1.0MPa abs.)

**Degree of protection:** IP65

**Ambient conditions:** -40°C to 60°C

**Leakage rate:**

< 1 × 10<sup>-9</sup> Pa · m<sup>3</sup>/s, Relative humidity ≤ 95%RH

**Pressure connection:** M20 × 1.5, (customizable)

**Location:** Bottom or back

**Electrical connection:**

Connect the plug when plugging,  
wire diameter 0.2...2.5 mm<sup>2</sup>

**Insulation properties:**

Insulation resistance: >100 MΩ (500 V DC)

Withstand voltage: 2kV, 50/60 Hz 1 min (to case)

**Contact type:** Micro Switch

## Description

These instruments are used to monitor SF<sub>6</sub> gas density in sealed tanks. They are applied to indicate gas density and to provide a signal outputs when the density reaches preset threshold values. They are designed to monitor High Voltage systems.

## 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 Mutual Inductor
- SF<sub>6</sub> Insulated Busbar Systems

## Features

- Using gas compensation, higher set point accuracy
- Class 1.0 display for full scale
- Suitable for indoor or outdoor installation
- Micro switch, can switch freely between normally open and normally closed points
- Up to four pairs of nodes, 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
- RS485 bus interface, facilitating system expansion, realizing telemetering and remote control. High anti-electromagnetic interference capability

**Impact rating:** 50g

**Contact ratings:** 10(1.5)A, 250V AC  
0.1 (0.05)A, 250V DC

**Window:** Laminated safety glass

**Weight:** 1.2kg

**Pressure-sensitive components:**  
bellows and Bowden tubes

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

Power supply: 24V DC  
 Power consumption: < 2W  
 Communication mode: RS485  
 Protocol: ModBus RTU  
 Baud rate: 9600bps

### Anti-electromagnetic interference

IEC61000-4-2: level 4 (15kV)  
 IEC61000-4-3: level 3 (10V / m)  
 IEC61000-4-4: level 4 (4kV)  
 IEC61000-4-5: level 3 (+/- 2kV)  
 IEC61000-4-6: level 3 (10V)  
 IEC61000-4-8: level 5 (100A / m)  
 IEC61000-4-9: level 5 (1000A/m)  
 IEC61000-4-10: level 4 (30A / m)

## Dimensions

