6

ZMJ100PRW WIRELESS REMOTE TRANSMISSION DENSITY MONITOR





Description

These instruments are used to monitor SF_6 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 able to transmit the real-time data of SF_6 gas density remotely and realize the online remote monitoring. They are suitable for monitoring high-pressure system. The SF_6 gas density data can be remotely monitored and transmitted by low-power, high anti-interference wireless communication methods. 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. Wireless communication and convenient for site networking
- 6. Strong Anti-interference ability and far transmission distance
- 7. Using concentrator as the center, these instruments can achieve autonomous wireless networking and the concentrator outputs all monitoring data through the RS485.
- 8. Up to four pairs of contacts can achieve overpressure alarm, dual alarm or double locking and many other options, ensuring the monitoring more secure and reliable

Options

- 1. Power-frequency withstand voltage: 2.5kV 50/60 Hz 1min
- 2. Oil-filled
- 3. Measuring medium: SF₆, Air, N₂, SF₆ + N₂ and other gases

> Technical Data

1. Nominal Size:100mm	10. Insulation properties:
2. Scale range: -0.1 to 0.9 MPa (customizable)	Insulation resistance: >100 M Ω (500 V DC)
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	11. Contact type:
b) -40°C to +60°C: Class2.5	Pointer driven magnetic snap action signal contacts;
4. Degree of protection: IP65	80%Ag, 20% Ni, 10μm Au plated
5 . Ambient conditions: -40°C to +60°C, relative humidity \leq 95%RH	12. Impact rating: 50g (oil-filled), 30g (non-oil-filled)
6. Leakage rate: $\leq 1 \times 10^{-9} \text{ Pa·m}^3/\text{s}$ (Helium leakage inspection)	13. Contact electrical parameters: 30W/50VA, 1A (maximum)
7. Process connection: M20×1.5 (customizable)	220VDC/380V 50/60Hz (maximum)
8. Installation method: radial or axial	14. Window glass: Laminated safety glass
9. Electrical connection:	15. Weight: 1.2kg
Compact pluggable box with M20 x 1.5 cable gland	16. Pressure element: Bourdon tubes
Cable size: 1.5mm² recommended, 2.5mm² maximum	17. Bending Antenna Type for indoor, Sucker Amtenna Type for outdoor

Main electrical performance indicators and specifications of the remote transmission part

1. Power supply: DC 24V

2. Power consumption: < 2W

3. Communication mode: RS485

4. Protocol: ModBus RTU
 5. Baud rate: 9600bps

6. Anti-electromagnetic interference: IEC61000-4-2: level 4 (15kV)

IEC61000-4-3: level 3 (10V / m)

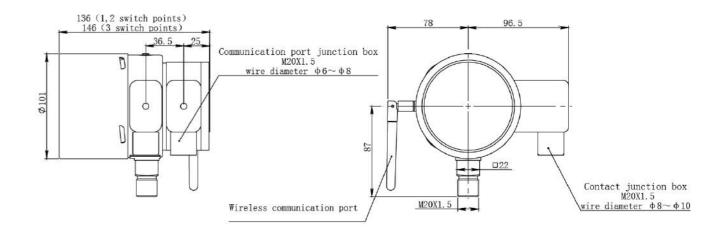
IEC61000-4-4: level 4 (4kV)

IEC61000-4-5: level 3 (+/- 2kV)

IEC61000-4-6: level 3 (10V)

IEC61000-4-8: level 5 (100A / m)

Dimensions



Lanso Konly (Shanghai) Instruments Co., Ltd. www.lanso.com.cn Expert In SF₆ Gas Monitoring Solutions