

FXM100/T Serises Remote SF₆ Gas density monitor

FXM100/ T

Applications

- Medium and high-voltage equipment
- Density monitoring of closed SF₆/or mixed gas compartment
- Remote monitoring of the SF₆/or mixed gas real-time condition
- Raising an alarm when defined limit values have been reached

Special Features

- Ideally suited for smart grid or modernisation projects
- ModbusR delivers measured values for pressure, temperature and gas density as digital signal
- The 4~20 mA version outputs the absolute pressure at 20°C [68 °F] or the gas density(g/l) as an analogue signal for SF₆ gas
- Compact design with only one process connection,achieving remote control.High resistance to electromagnetic interference
- Suitable for alternative gases



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Specifications

Rang	-0.1~0.9MPa(customized)
Accuracy specifications	±1%/±1.6% at an ambient temperature of +20°C;±2.5% at an ambienttem perature of -40°C ~ +60°C
Insulation properties	Insulation resistance > 100M(500V DC);AC withstand voltage ≥ 2kV,50/60Hz 1min
Contact type	Magnetically assisted electrical contact switch 80%Ag20%Ni.Gold plating of contacts
Contact electrical parameters	≤30W/50VA; ≤1A; ≤220VDC/380VAC
Weatherprotection	IP66
Ambient temperature	-40°C~ +60°C, Permissible humidity ≤ 95%RH
Shock resistant	≤50g(Oil-filled type)OR ≤30g(Non-oil-filled type)
Pressure element's gas-tight	Leakage rate ≤ 1×10 ⁻⁹ Pa·m ³ /s(Helium mass spectrometry)
Vibration resistance	20m/s ²
Process connection	M20×1.5, G1/2 (customized)
Operating voltage	24VDC
Weight	≈1.2 kg
Power consumption	≤2W
Communication method	RS485,4~20mA,IEC61850,Wireless communication(LoRa)

EMCtests:

IEC61000-4-2:class4(15KV) IEC61000-4-3:class3(10V/m) IEC61000-4-4:class4(4KV) IEC61000-4-5:class4(±4KV)
 IEC61000-4-6:class3(10V) IEC61000-4-8:class5(100A/m) IEC61000-4-9:class5 IEC61000-4-10:class5
 IEC61000-4-11:60% Ut

Dimensions

