



DFXM100 Series SF6 Gas Density Monitor

The FXM100 series SF6 gas density monitor is used to monitor the density (P20) value of SF6 gas in enclosed containers. It achieves direct indication of the density (P20) value on the dial through an internal temperature compensation device. When the density (P20) value reaches a set threshold, the internal contact logic state changes, thereby outputting a contact signal. It is mainly applied to SF6 gas-insulated GIS composite electrical apparatus, circuit breakers, pole-mounted switches, and transformers, as well as other SF6 gas-filled equipment.



Specifications

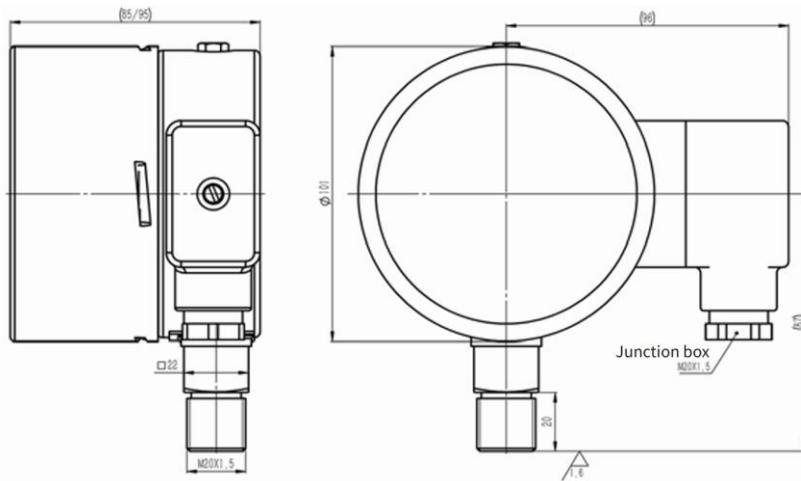
Range	-0.1~0.9MPa (customized)	Contact type	magnetic snap-action contact 80%Ag 20%Ni. Gold-plated
Accuracy specifications	+1%±1.6% at an ambient temperature of+20°C +2.5% at an ambient temperature of -40°C ~ +60°C	Insulation properties	Insulation resistance>100M (500V DC); Power frequency withstand voltage>2kV,50/60Hz 1min
Weather protection	IP66	Contact electrical parameters	≤30W/50VA; ≤1A; ≤220VDC/380VAC
Ambient temperature	-40°C~+60°C, Permissible humidity≤95%RH	Shock resistance	≤50g(Oil-filled type) or ≤30g(Non-oil-filled type)
Pressure element's gas-tight	Leakage rate < 1x10 ⁻⁹ Pa · m ³ /s (Helium mass spectrometry)	Process connection	G½/M20*1.5, lower mount Stainless steel Other connections and connection locations on request.
Vibration resistance	20 m/s ²	Weight	≈ 1.2 kg

DFXM100H Series

Mixed Gas Density Monitor

The FXM100H Series Mixed Gas Density Relay is a precision instrument specifically designed for monitoring the density (P20) value of mixed gases which can comprise of SF6 and various other gases (including nitrogen, carbon tetrafluoride, oxygen, and carbon dioxide) in sealed containers.

It is primarily used in gas-insulated equipment utilizing SF6 and mixed gases, such as GIS switchgear, circuit breakers, pole-mounted switches, and transformers.



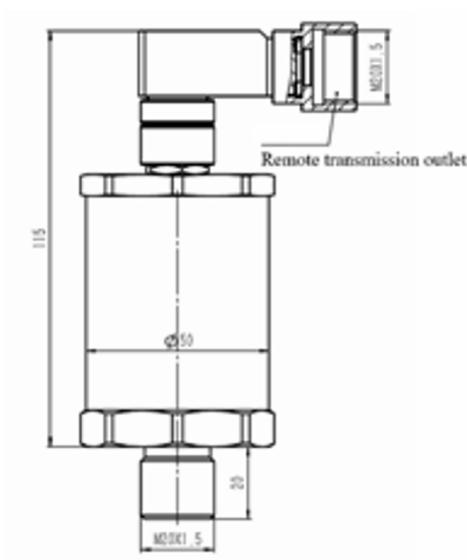
Specifications

Range	-0.1~0.9MPa (Customizable)	
Accuracy	20°C: ±1.0%(F.S.)	-40°C~60°C: ±2.5%(F.S.)
Weather protection	IP66	
Operating Temperature	-40°C~+60°C, Relative Humidity ≤95%RH	
Leakage Rate	$< 1 \times 10^{-9}$ Pa·m ³ /s	
Interface Size	M20×1.5, G ^{1/2} (Customizable)	
Contact Type	Magnetic snap-action contact 80%Ag 20%Ni 10μm gold plating	
Insulation Performance	Insulation resistance >100MΩ (500V DC) Power frequency max voltage ≥2kV, 50/60Hz, 1min	
Contact Electrical Parameters	≤30W/50VA, ≤1A	≤220VDC/380VAC
Shock Resistance	≤50g (Oil-filled type) or ≤30g (Oil-free type)	
Vibration Resistance	20m/s ²	
Weight	≈1.0kg	

DFXM-T Series

SF6 Gas Density Sensor

The DFXM series of gas density sensors are used to monitor the density of SF6 gas in enclosed containers, featuring real-time digital information acquisition and analog signal transmission capabilities. It is primarily applied to online monitoring systems for SF6 insulated composite electrical apparatus, circuit breakers, pole-mounted switches, transformers, and current transformers.



Models with multiple switch contacts, and with customizable contact values are available for OEM customers.

Specifications

Range	0 ~ 1.0MPa (Customizable)	Ambient Temperature	-40°C~ +60°C, Relative Humidity ≤95% RH
Accuracy (SF₆ gaseous)	20°C: ±1.0% F.S. -40°C ~ 60°C: ±2.5% F.S.	Leak Rate	≤1×10 ⁻⁹ Pa · m ³ /s (Helium Leak Test)
Weatherprotection	IP65	Pressure Connection	M20×1.5 (Customizable)
Communication	4-20mA, RS485 (Modbus RTU), IEC61850, Wireless (LoRa)		
EMC	IEC61000-4-2: level 4(15kv) IEC61000-4-5: level 4(+/-4KV) IEC61000-4-9: level 5	IEC61000-4-3: level 3(10V/m) IEC61000-4-6: level 3(10KV) IEC61000-4-10: level 5	IEC61000-4-4: level 4(4KV) IEC61000-4-8: level 5(100A/m) IEC61000-4-11: 60%Ut

A Complete Range of Products

For all your gas density monitoring needs



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