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 \sim 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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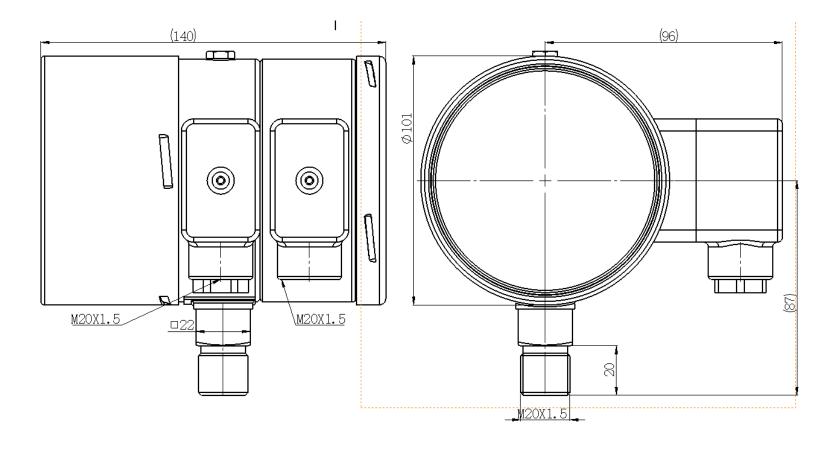
Specifications	
Rang	$-0.1 \sim 0.9$ MPa(customized)
Accuracy specifications	$\pm 1\%/\pm 1.6\%$ at an ambient temperature of $\pm 20^{\circ}C;\pm 2.5\%$ at an ambient temperature of $-40^{\circ}C \sim \pm 60^{\circ}C$
Insulation properties	Insulation resistance ≥100M(500V DC);AC withstand voltage≥2kV,50/60Hz 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 \sim +60°C, Permissible humidity \leq 95%RH
Shock resistant	≤50g(Oil-filled type)OR≤30g(Non-oil-filled type)
Pressure element's gas-tight	Leakage rate $\leq 1 \times 10^{-9}$ 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:

$$\label{eq:linear} \begin{split} IEC61000-4-2:class4(15KV) \ IEC61000-4-3:class3(10V/m) \ IEC61000-4-4:class4(4KV) \ IEC61000-4-5:class4(\pm 4KV) \\ IEC61000-4-6:class3(10V) \ IEC61000-4-8:class5(100A/m) \ IEC61000-4-9:class5 \ IEC61000-4-10:class5 \\ IEC61000-4-11:60\% \ Ut \end{split}$$



Dimensions



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Ordering information Pressure gauge model / Nominal size / Scale range / Size of connection / Optional extras required Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing Modifications may take place and materials specified may be replaced by others without prior notice



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