FXM100 Series SF<sub>6</sub> Gas density monitor

# FXM100 Series SF<sub>6</sub> Gas density monitor

FXM100

## Applications

- Medium and high-voltage equipment
- Gas density monitoring of closed SF<sub>6</sub> /or mixed gas tanks
- Raising an alarm when defined limit values have been reached

#### Product features

- On-site display with switch contact
- Temperature-compensated and hermetically sealed, therefore no influence of temperature fluctuations, differences in level and atmospheric pressure fluctuations
- Compensation possible for gas mixtures
- Functional check or recalibration possible without dismounting, in accordance with EU regulation no. 517/2014 on fluorinated greenhouse gases
- Hermetically sealed case from AISI 304 stainless steel,test connection is welded to prevent leakage
- To achieve a maximum of four switch contacts, an overpressure alarm, dual alarm or double locking and many other options make gas density monitor safer and more reliable

Specifications	
Range	-0.1~0.9MPa(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 $-40^{\circ}\mathrm{C} \sim +60^{\circ}\mathrm{C}$
Weather protection	IP66
Ambient temperature	-40°C $\sim$ +60°C, Permissible humidity $\leq$ 95%RH
Pressure element's gas-tight	Leakage rate $\leq 1 \times 10^{-9}$ Pa·m <sup>3</sup> /s (Helium mass spectrometry)
Vibration resistance	20 m/s <sup>2</sup>
Contact type	Magnetically assisted electrical contact switch
	80%Ag 20%Ni. Gold-plated
Insulation properties	Insulation resistance>100M (500V DC);AC withstand
	voltage≥2kV,50/60Hz 1min
Contact electrical parameters	$\leq$ 30W/50VA; $\leq$ 1A; $\leq$ 220VDC/380VAC
Shock resistance	$\leq$ 50g(Oil-filled type) OR $\leq$ 30g(Non-oil-filled type)
Process connection	G <sup>1</sup> / <sub>2</sub> B / M20*1.5, lower mount Stainless steel
	Other connections and connection locations on request.
Weight	≈1.2 kg

## Specifications



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# 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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