

FXM100 Series SF₆ Gas density monitor

FXM100

Applications

- Medium and high-voltage equipment
- Gas density monitoring of closed SF₆ /or mixed gas tanks
- Raising an alarm when defined limit values have been reached



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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 ~ 0.9 MPa (customized)
Accuracy specifications	±1%/±1.6% at an ambient temperature of +20°C; ±2.5% at an ambient temperature of -40°C ~ +60°C
Weather protection	IP66
Ambient temperature	-40°C ~ +60°C, Permissible humidity ≤ 95% RH
Pressure element's gas-tight	Leakage rate ≤ 1 × 10 ⁻⁹ Pa · m ³ /s (Helium mass spectrometry)
Vibration resistance	20 m/s ²
Contact type	Magnetically assisted electrical contact switch 80% Ag 20% Ni. Gold-plated
Insulation properties	Insulation resistance > 100 M (500V DC); AC withstand voltage ≥ 2 kV, 50/60 Hz 1 min
Contact electrical parameters	≤ 30 W / 50 VA; ≤ 1 A; ≤ 220 V DC / 380 V AC
Shock resistance	≤ 50 g (Oil-filled type) OR ≤ 30 g (Non-oil-filled type)
Process connection	G ½ B / M20 * 1.5, lower mount Stainless steel Other connections and connection locations on request.
Weight	≈ 1.2 kg

Dimensions

