

DT10

Density Transmitter



Description

DT10 Density Transmitters are used to monitor SF₆ gas density in sealed tanks. It can provide multiple solutions to support new substations and the renovation and up-grading of existing substations.



DT10 Density Transmitter

Features

- Suitable for medium or high volatage systems.
- All welded sensor structure, long-term stable seal-ing performance .
- RS485 bus interface (Modbus RTU).
- Strong EMC capability.

Application

- SF₆ Gas Insulated Switchgear (GIS)
- SF₆ Insulated Circuit Breaker
- SF₆ Insulated Pole-Mounted Switch
- SF₆ Insulated Transformer
- SF₆ Insulation Current Transformer or Voltage Transformer
- SF₆ Insulated Bus System

Options

- Measuring Medium: SF₆, Air, N₂, SF₆ + N₂ and other gases

Technical parameters	
Measuring range	0 ~ 1.0MPa
Accuracy of transmitter	Temperature: ±1℃ Pressure: ±0.5%FS Pressure at 20℃: ±1.0%FS
Degree of protection	IP65
Ambient Condition	-40℃ ~ +70℃ , Relative humidity ≤ 95%RH
Leakage rate	≤ 1 × 10 ⁻⁹ Pa·m ³ /s (Helium leakage inspection)
Process connection	M20 x 1.5 (customizable)
Electrical connection	M12 x 1 Circular connector
Weight	0.1kg

Technical Parameters for Remote Module			
Operating voltage	10~30VDC	EMC tests	IEC61000-4-2: level 4(15kV) IEC61000-4-3: Level 3 (10V/m) IEC61000-4-4: Level 4 (4kV) IEC61000-4-5: level 3 (1kV /2kV) IEC61000-4-8: level 5 (100A/m) IEC61000-4-9: level 5 (1000A/m) IEC61000-4-10: level 4 Class (30A/m)
Power consumption	<0.5W		
Communication mode	RS485		
Communication protocol	Modbus RTU		
Baud rate	9600bps		

Dimensions

