# DT10 Density Transmitter



## Description

DT10 Density Transmitters are used to monitor  $SF_6$  gas density in sealed tanks. It can provide multiple solutions to support new substations and the renovation and upgrading of existing substations.



DT10 Density Transmitter

### **Features**

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

# **Application**

- SF<sub>6</sub> Gas Insulated Swithchgear (GIS)
- SF<sub>6</sub> Insulated Circuit Breaker
- SF<sub>6</sub> Insulated Pole-Mounted Switch
- SF<sub>6</sub> Insulated Transformer
- SF<sub>6</sub> Insulation Current Transformer or Voltage Transformer
- SF<sub>6</sub> Insulated Bus System

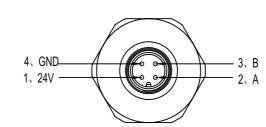
**Options** 

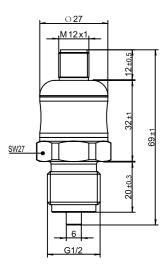
■ Measuring Medium: SF<sub>6</sub>, Air, N<sub>2</sub>, SF<sub>6</sub> + N<sub>2</sub> and other gases

Technical parameters		
Measuring range	0~1.0MPa	
Accuracy of transmitter	Temperature: ±1°C Pressure: ±0.5%FS Pressure at 20°C: ±1.0%FS	
Degree of protection	IP65	
Ambient Condition	$-40$ °C $\sim$ +70°C , Relative humidity ≤ 95%RH	
Leakage rate	$\leq 1 \times 10^{-9}  \text{Pa} \cdot \text{m}^3 / \text{s}$ (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		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	EMC tests		
Communication protocol	Modbus RTU			
Baud rate	9600bps			

#### **Dimensions**





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