

# DT10 Density Transmitter



## Description

DT10 Density Transmitters are used to monitor SF<sub>6</sub> 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 voltage 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 Switchgear (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 ~ +70°C , Relative humidity ≤ 95%RH
Leakage rate	≤ 1 × 10 <sup>-9</sup> Pa·m <sup>3</sup> /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

