

# RD40 Density Transmitter



## Description

The RD40 density transmitter is used to monitor the temperature, pressure and density of the gas in sealed tanks, and the functional parameters meet the requirements of the National Grid.

"QGDW123554-2023 Smart substation technical specification Part 4: Digital remote transmission meter" standard. It can be used in the new substation and the renovation and upgrading of existing substation.



RD40 Density Transmitter

## Features

- All welded sensor structure, long-term stable sealing performance.
- RS485 bus interface, easy to do the system expansion.
- Meet the requirements of "QGDW123554-2023 Smart substation technical specification Part 4: Digital remote transmission meter".
- Compact and beautiful design.

## 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 ~ 0.9MPa
Accuracy of transmitter	Pressure: ±0.5%FS Temperature: ±1°C 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	Hersman connector
Impact Rating	50 g
Weight	0.4kg

Technical Parameters for Remote Module			
Operating voltage	10~30VDC	EMC tests	IEC61000-4-2: Level 4 IEC61000-4-3: Level 3 IEC61000-4-4: Level 4 IEC61000-4-5: Level 4 IEC61000-4-6: Level 3 IEC61000-4-8: Level 5 IEC61000-4-9: Level 5 IEC61000-4-10: Level 5
Power consumption	<0.5W		
Communication mode	RS485		
Communication protocol	Modbus RTU		
Baud Rate	9600bps		

## Dimensions

