

# RDH40

## SF<sub>6</sub> Gas Density and Dew Transmitter



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SF<sub>6</sub> Gas density and dew transmitter

### Description

RDH40 Gas Density and Dewpoint Transmitter is mainly used to monitor the temperature, pressure, density and moisture content of SF<sub>6</sub> gas in closed containers, with real-time remote monitoring function. The intelligent compensation technology is used inside the product, which can track the nonlinear change of SF<sub>6</sub> gas pressure and the change of micro-water content in real time, and the measurement is accurate and widely used. Suitable for monitoring of medium and high voltage systems. It can be used in the new substation building and the renovation and smart upgrading of existing substation.

### Features

- Suitable for medium or high voltage systems.
- Multi-parameter instrument for simultaneous monitoring of gas dew point, density, pressure and temperature with excellent accuracy.
- RS485 bus interface (Modbus RTU).
- Small size, beautiful structure.

### Optional features

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

### Application Range

- 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

#### Remote part of the main electrical performance indicators and specifications

Operating voltage	10~30VDC	EMC Class	IEC61000-4-2: Level 4
Power consumption	<0.5W		IEC61000-4-3: Level 3
Communication mode	RS485		IEC61000-4-4: Level 4
Communication protocol	Modbus RTU		IEC61000-4-5: Level 4
Baud rate	9600bps		IEC61000-4-6: Level 3
			IEC61000-4-8: Level 5
			IEC61000-4-9: Level 5
			IEC61000-4-10: Level 5

### Technical parameters

Pressure measuring range	0 ~ 1.4MPa(customizable)	
Dew measuring range	-50°C ~ +20°C	
Accuracy of transmitter	Temperature: ±1°C Pressure at 20°C: ±1.0%FS	Pressure: ±0.5%FS Dew: ±3°C
Degree of protection	IP65	
Ambient condition	-40°C ~ +80°C , Relative humidity ≤ 95%RH	
Leakage rate	≤ 1 x 10 <sup>-9</sup> Pa · m <sup>3</sup> /s (Helium leakage inspection)	
Process connection	G1 (customizable)	
Electrical connection	M12 x 1 Circular connector	
Weight	0.4kg	

### Dimensions

