

RDH40

SF₆ Gas Density and Dew Transmitter



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Description

RDH40 Gas Density and Dewpoint Transmitter is mainly used to monitor the temperature, pressure, density and moisture content of SF₆ 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 SF₆ 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: SF₆, Air, N₂, SF₆+N₂ and other gases

Application Range

- 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

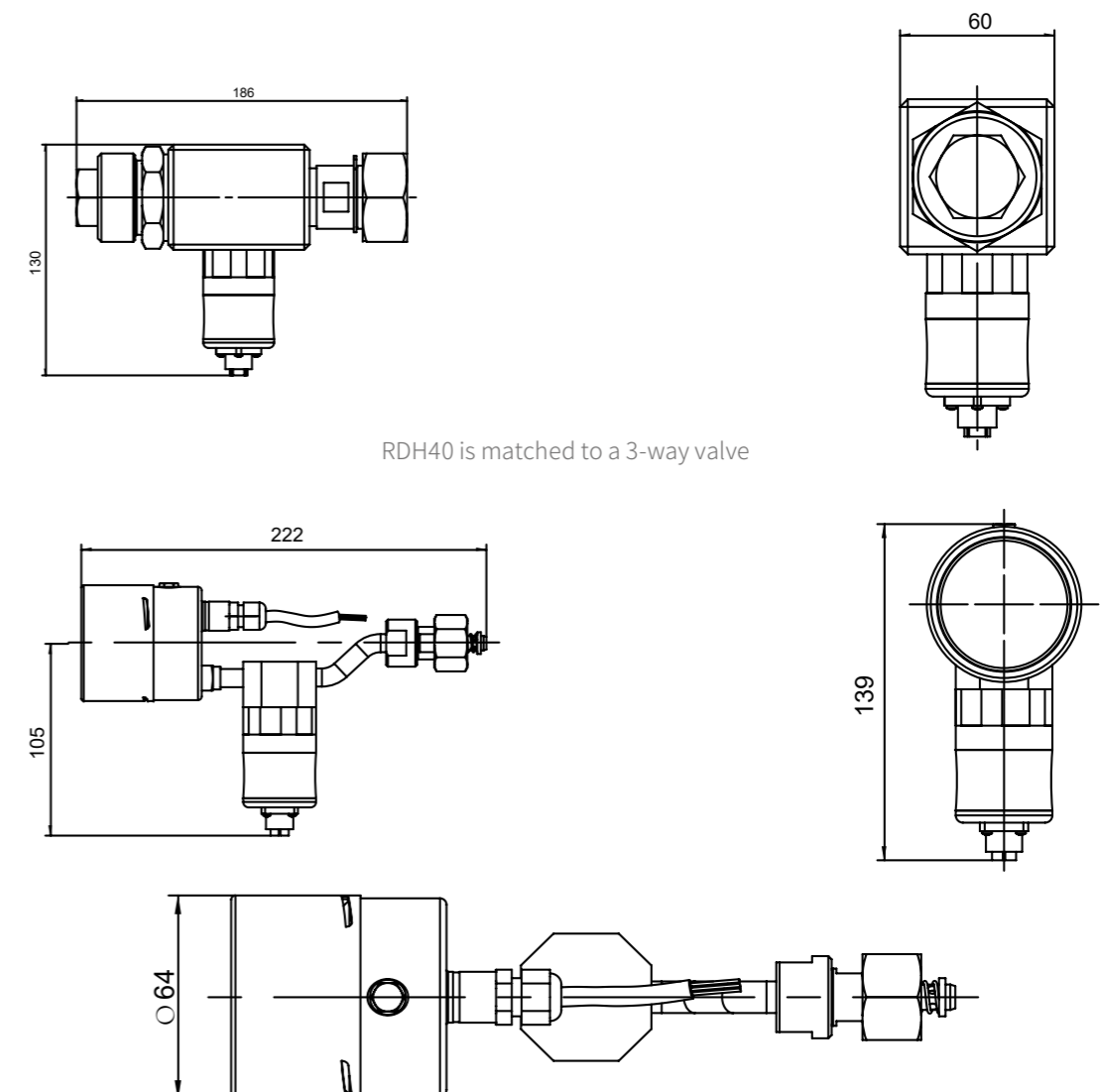
Remote part of the main electrical performance indicators and specifications

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 ⁻⁹ Pa · m ³ /s (Helium leakage inspection)	
Process connection	G1 (customizable)	
Electrical connection	M12 x 1 Circular connector	
Weight	0.4kg	

Dimensions



The RDH40 is matched to a medium pressure gauge