

DDM60R

Digital Density Monitor



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Description

DDM60R Digital Density Monitor are used to monitor the density of SF₆ gas in sealed tanks. It has real-time remote transmission of SF₆ gas density change data, realizes online remote monitoring function, and can display the gas density digitally on site. When the density value reaches the set value, the contact output alarm signal. Suitable for medium voltage system monitoring. It can be used in the new substation building and the renovation and upgrading of existing substation.

Features

- Local digital display and control.
- The microswitch is used as the signal output device to realize the free switching between normally open and normally closed points.
- Temperature Compensated.
- The alarm value can be set on site and can be applied to cabinets with different alarm values.
- Small size, installation interface can be customized, convenient and reliable.
- RS485 bus interface, easy to do the system expansion, and to achieve telemetry, remote control functions. Strong EMC capability.

Options

- Measuring Medium: SF₆, Air, N₂, SF₆+N₂ and other gases

Application

- 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	<1W(max. 1.5W)		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

Scale 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 conditions	-40°C ~ +70°C , relative humidity: ≤ 95%RH
Leakage rate	≤ 1 × 10 ⁻⁹ Pa·m ³ /s (Helium leakage inspection)
Process connection	M20×1.5 (customizable)
Installation method	Radial or Axial
Electrical connection	Preset cable
Insulation property(contact part)	Insulation resistance: >100MΩ (DC500V) Power frequency withstand voltage: 2kV, 50/60Hz, 1min
Contact type	Magnetic holding electronic relay
Impact rating	30 g
Contact electrical parameters	Maximum switching voltage: 380VAC/240VDC Maximum switching current: 5A
Watch glass	Laminated safety glass
Weight	0.3kg

Dimensions

