

# ZMJ60R Density Monitor



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## Description

ZMJ60R Density Monitors is used to monitor the density of gas in closed containers, and can be widely used in medium voltage switchgear and ring network cabinet. It can display gas density on site, and reliably output SF<sub>6</sub> gas density signal for remote monitoring and monitoring. It can be used in the new substation building and renovation and upgrading of existing substation.

## Features

- Compact design, customizable installation interface to user's need, convenient and reliable.
- Suited for different indoor and outdoor installation requirements.
- Up to three sets of contact switches.
- RS485 remote transmission function, convenient remote monitoring.
- Temperature compensated.

## Options

- Measuring range
- Wider temperature range: -40°C ~ +60°C
- Outlet mode and cable length
- Installation method
- High altitude environment application
- Measuring Medium: SF<sub>6</sub>, Air, N<sub>2</sub>, SF<sub>6</sub>+N<sub>2</sub> and other gases
- Optional measurement accuracy: ±1.0%FS(+20±1°C) , ±2.5%FS (-20°C~ +60°C) (gas phase)

## Application

- SF<sub>6</sub> Gas Insulated Ring Main Unit
- SF<sub>6</sub> Gas Insulated Switch Gear

### Technical Parameters for Remote Module

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

### Technical Parameters

Case diameter	64mm
Scale range	0 ~ 2bar abs.(customizable)
Accuracy of indication	±1.5%FS (+20±1°C) ; ±2.5%FS (-20°C~ +60°C) (gas)
Degree of protection	IP65
Ambient condition	-20°C ~ +60°C relative humidity ≤ 95%
Leakage rate	≤ 1 × 10 <sup>-9</sup> Pa·m <sup>3</sup> /s (Helium leakage inspection)
Process connection	M20 x 1.5 (customizable)
Installation mode	Radial or axial
Electrical connection	Pluggable connector, wire diameter 1 ~ 2.5 mm <sup>2</sup> (1.5mm <sup>2</sup> recommended)
Insulation property(contact part)	Insulation resistance: >100MΩ (DC500V) withstand voltage: 2kV, 50/60Hz, 1min
Contact type	Magnetic snap-action contact (Up to 3 set of contacts, NO & NC)
Impact rating	30 g
Contact electrical parameters	Rated Power: 30VA Max switching voltage: 380V Max switching current: 1A
Weight	≈ 0.9kg
Pressure element	Bourdon tube

## Dimensions

