

MJS100 Digital Density Relay

Model MJS100

MJS100 digital SF6 gas density relay with LED display and RS-485 / Modbus RTU remote transmission for smart substations: temperature-compensated, alarm/lockout contacts, IP65.

- Digital LED display of density referenced to 20 °C
- RS-485 / Modbus RTU remote transmission
- Up to 3 contact pairs — alarm and lockout
- IP65 sealed case, -40 ~ +60 °C



Technical specifications

Shell diameter	100 mm
Display	Digital LED, density referenced to 20 °C
Measurement range	-0.1 ~ 0.9 MPa (customizable)
Accuracy @ 20 °C	Grade 1.0 or 1.5
Accuracy @ -40 ~ +60 °C	Level 2.5
Working temperature	-40 ~ +60 °C; relative humidity ≤ 95 % RH
Remote output — power	DC 24 V, < 2 W
Communication	RS-485, Modbus RTU (4-20 mA optional)
Contact output	Up to 3 pairs (alarm + lockout), 30 W / 50 VA, 1 A max; 220 VDC / 380 V 50/60 Hz
Contact type	Magnetic-assisted electric contact; 80 % silver, 20 % nickel, 10 μm gold plating
Insulation	> 100 MΩ (DC 500 V); withstand 2 kV 50/60 Hz 1 min
Process connection	M20 × 1.5 (customizable)
Leakage rate	≤ 1×10 ⁻⁸ Pa·m ³ /s (helium leak detection)
Protection level	IP65
Pressure sensing element	Imported Bourdon tube