

# HZ1491 SF6 Gas Density Relay Calibrator



Dear user:

Thank you for choosing HZ1491 SF6 Gas Density Relay Calibrator.

We hope that this instrument can make your work easier and more enjoyable, so that you can get the feeling of office automation in the test and analysis work.

Before using the instrument, please read this manual, and operate and maintain the instrument according to the manual to prolong its service life. "Just a light press, the test will be completed automatically" is the operating characteristics of this instrument.

If you are satisfied with this instrument, please tell your colleagues; if you are not satisfied with this instrument, please call (0312) 6775656 to tell you to serve you at all times-Baoding Huazheng Electric Manufacturing Co., Ltd., our company will definitely make you satisfied !

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## I.OVERVIEW

SF6 gas density relay is an important component used to monitor the change of SF6 gas density in the SF6 switch body during operation. Due to the infrequent action of SF6 gas density relay in field operation, it often has inflexible action, poor contact and other phenomena after a period of time, and some also show that the temperature compensation performance of density relay becomes worse, Sudden change of ambient temperature often leads to misoperation of SF6 density relay. Therefore, DL / T596-1996 preventive test code for power equipment stipulates that each SF6 switch user shall regularly calibrate the SF6 gas density relay. JKMD20 SF6 density relay calibrator is developed according to DL / t259-2012: Calibration Specification for SF6 density relay issued by the national energy administration.

The instrument adopts 7.0 inch color LCD touch screen for human-computer interaction, which is more convenient to operate. Built in high-capacity rechargeable lithium battery pack provides ultra long standby time. The standard USB interface is configured, and the historical data can be exported to the USB flash disk through the interface.

In addition to the calibration of SF6 density relay, the instrument also has the function of calibrating pressure gauge and density gauge. The instrument can automatically detect abnormal conditions during measurement. In case of pipeline leakage, air leakage and insufficient inlet and outlet air pressure, the instrument will automatically stop operation and pop up a warning.

In a closed container, the SF6 gas pressure at a certain temperature can represent the density of SF6 gas. Traditionally, 20 °C is the SF6 gas pressure as the standard value. During on-site verification, the measured pressure value shall be converted into its corresponding pressure value at 20 °C under different ambient temperatures, so as to judge the performance of SF6 density relay.

## II. TECHNICAL INDICATORS

- Verification object: alarm 1, alarm 2, locking 1, locking 2, overpressure

alarm contact signal

- Calibration range: 0 ~ 1MPa (absolute pressure)
- Instrument accuracy: grade 0.15
- Pressure display resolution: 0.0001mpa
- Inlet pressure: 0.9 ~ 1MPa (relative pressure)
- External interface: USB (supports USB mobile storage devices no larger than 4GB)
- Working environment: temperature - 10 ~ 50 °C (the best operating temperature is 5 ~ 50 °C)
- Relative humidity: 5 ~ 90% RH
- Display resolution: 800 × 480 (pixel) color touch screen
- Storage capacity: 50 groups
- Measured contact voltage: DC24V
- Temperature acquisition mode: manual / automatic
- Air inlet connection: φ 4 butt type quick plug
- Air inlet pipe: standard configuration φ 4 / PFA pipe
- Measurement connection: φ 4 butt type quick plug
- Measuring pipeline: standard configuration φ 4 / PFA pipe
- Exhaust connection: φ 4 quick connector
- Exhaust pipe: Standard φ 4 / PFA pipe
- Mobile power supply: rechargeable lithium battery pack, which can work continuously for 8 hours
- Charging voltage: 100 ~ 240VAC, 50 / 60Hz
- Overall dimension of host: 325mm long × 275mm wide × Height 140mm
- Overall dimension of accessory box: 360mm long × 250mm wide × Height 110mm
- Instrument weight: 4.5kg