



### > Description

The gas density relay calibrator, a fully automatic intelligent SF<sub>6</sub> gas density relay calibrator (including SF<sub>6</sub> gas density relay calibrator and SF<sub>6</sub>/N<sub>2</sub> gas density relay calibrator), adopts embedded microprocessor and totally enclosed SF<sub>6</sub> gas circulation system to conduct performance calibration on various SF<sub>6</sub> gas density relays, normal temperature pressure gages and P20 pressure gages. The calibrator is used in production, maintenance and monitoring of SF<sub>6</sub> gas products and is especially applicable in power system to provide convenience in production and safe running of SF<sub>6</sub> electric products.

### > Features

1. The instrument has built-in capsule replaceable gas chamber based on self-owned patent. Its calibration scope covers 0-1MPa in full scale. Calibration work is stable and smooth and can be finished at one stroke without need of interruption for gas charging.
2. The instrument has built-in capsule replaceable gas chamber and replace static seal with dynamic seal to improve airtightness of the instrument.
3. During calibration, SF<sub>6</sub> gas conducts internal circulation without discharge into atmosphere, which is more environment friendly and safer.
4. It boasts dual-seal design consisting of hand valve and self-sealing valve in its structure. It is easy to operate and prevents moisture and air from entering pipe. There is no discharge or leakage of SF<sub>6</sub> before and after calibration.
5. Cleaning and air admission device has simple structure and is easy to operate. Cleaning and charging reduce mini water and foreign gas content inside it to the minimum level.
6. It can automatically identify normally open type normally close type of density relay. It can calibrate single signal (single alarm, single blocking), single alarm single blocking and single alarm dual blocking density relay.
7. It can conduct off-line calibration. It is equipped with a full set of transition adaptor. Density relay of most switch models can receive onsite online calibration.
8. It has engineering plastic casing, which is beautiful and solid with high protection class.

### > Technical parameter

1. Working power supply: 24V lithium battery or AC220V.
2. Measurement scope: Pressure calibration scope of 0~1MPa; temperature of -40 C ~+125 C
3. Precision: class 0.2
4. Resolution: pressure display resolution of 0.001MPa; temperature display resolution of 0.1 C
5. Density relay node calibration: Single signal (single alarm, single blocking), single alarm single blocking, single alarm dual blocking.
6. Calibration time of full scale ≤ 5min with smooth air pressure adjustment process.
7. Calibration of full scale at one stroke without need of interruption.
8. 7" extra large industry-level plain definition color touch screen
9. Ultra-large capacity memory to store calibration data for ever.
10. Attached with high-speed thermo-sensitive mini-printer to print calibration result after calibration is completed.
11. In-built USB interface to facilitate data sharing.

### > Configuration

1 set of host

Accessories: 1 piece of connecting gas pipe with both self-sealing sides; 1 piece of calibration point sampling wire; 1 temperature sensor; a piece of Cleaning and air admission device; 1 piece of power cable; 1 copy of factory inspection record; 1 copy of user manual.

Option: A kit (including a full set of transition joints).