



GDFJ-311M SF6 Gas Decomposition Product Tester



General Information

GDFJ-311M SF6 Gas Decomposition Product Tester is a portable device designed to measure SF6 gas decomposition product. The core component with electrochemical sensor from Membrapor to test SF6 gas decomposition product. Besides, we also adopt professional hardware chips and excellent software algorithms of STMicroelectronics.

Application

- Decomposition product analysis of SF6 gas insulated electrical equipment
- Quality detection of recycled SF6 gas
- R&D use

Reference standard

- DL/T 639-1997: Safety and Protection Guide for Operation Test and Maintenance Personnel of SF6 Electrical Equipment

- Guodian No.72 Annex 3[1999] Measures for Quality Supervision and Management of High Voltage Switchgear
- GB/T 17626: Electro-magnetic Compatibility - Testing and Measurement Techniques
- GB/T 2423: Environmental Test of Electrical and Electronic Products
- DL/T596: Preventive Test Code for Electric Power Equipment
- GB/T 6388: Transport Package Shipping Mark
- GB/T 18867-2014: Gases for Electronic Industry—Sulphur Hexafluoride
- GB/T8905: The Guide for Management and Measuring SF6 Gas in Electrical Equipment

Features

- With imported high-precision sensor and self-calibration function, test results are more accurate all year round.
- With polymer material design throughout gas pipeline from Legris, Camozzi and Swagelok, ensure no wall-clinging condition, and fast test speed.
- Oil-free stainless steel regulating valve is adopted to ensure test accuracy.
- Advanced software algorithm improves the test accuracy of imported sensors.
- With flexible case configuration. User can assemble spare parts more easily.
- Power on to detect, no need for oscillation.
- Temperature conversion and pressure data correction.
- Fuzzy computing technology.
- High-power lithium power supply system can realize AC DC double power supply. No need for on-site AC power supply. Lithium battery can work continuously for more than 8 hours alone.
- Anti-electromagnetic interference circuit design, to ensure the reliability of products.
- USB communication, serial communication and wireless communication modules can be extended to realize PC communication and printing functions. (optional)
- Mass storage, which can realize the storage function of 1000 groups of data.
- Gas path pretreatment function can purify the test pipeline before the field test work, which shortens the test time. (optional)

- With environment protection function. The instrument has a test gas recovery function, which can recycle the measured sulfur hexafluoride gas. (optional)
- The display of the best test flow area is clear and intuitive. Users can adjust the gas flow directly and quickly.
- The air inlet adopts the design of miniature self-sealing joint, so the measured air path will not leak when it is broken.

Specification

Decomposition product

Measurement method: electrochemical measuring principle (with sensor from Membrapor)

Ambient temperature: -20°C ~ +60°C

Measurement range:

SO₂ 0~200PPmv

H₂S 0~200PPmv

CO 0~500PPmv

HF 0~50PPmv

Error

SO₂ <10PPmv, ±0.3PPmv

>10PPmv, ±3%

H₂S <10PPmv, ±0.3PPmv

>10PPmv, ±3%

CO <50PPmv, ±2PPmv

>50PPmv, ±4%

HF <10PPmv, ±0.3PPmv

>10PPmv, ±3%

Repeat-ability

SO₂ <10PPmv, ±0.2PPmv

>10PPmv, ±2%

H₂S <10PPmv, ±0.2PPmv

>10PPmv, ±2%

CO <50PPmv, ±2PPmv

>50PPmv, ±2%

HF <10PPmv, ±0.2PPmv
>10PPmv, ±2%
Resolution: 0.1PPmv
Display unit: PPMv
Gas flow: 200 ~ 300ml/min
Gas flow display: 0~1000mL imported digital gas flow meter
Gas pressure: ≤1MPa
Humidity: 90%RH
Measurement value influence: No effect of pressure and flow
Power supply: 220VAC±10%, 50Hz, AC/DC use, continuous working is more than 8 hours.
Size: 395*295*155mm
Weight: 2kg

Packing list

Main unit	1 set
Teflon pipe (include flow adjustment valve and fast connector)	1 set
Gas pipe	1 set
Spare part	1 set
User's guide	1 copy
Warranty card	1 copy
Factory test report	1 copy
Charger	1pc