GDP-311IR SF6 Gas Purity Tester (IR Method)

General Information

GDP-311IR SF6 gas purity tester is a portable instrument for on site SF6 gas purity test developed by our company. The infrared principle SF6 gas purity testing sensor manufactured by European Sensor Company is used to test the purity of SF6 gas. With professional hardware chips and excellent software algorithms of STMicroelectronics, we have produced a new generation of SF6 gas purity analyzer.

Application

- Analysis purity of SF6 gas electrical equipment for electric power
- SF6 gas cylinder gas quality test
- Quality test of SF6 gas for recovery and reuse

- High purity gas manufacturing
- Semiconductor industry dry gas supply
- Research and development use
- Clean room/dry house monitoring

Features

- Imported high-precision sensors with self-calibration function, ensure the stability and reliability of purity detection data throughout the year.
- All gas path with high polymer material design, ensures no water wall hanging phenomenon and guarantees the test speed.
- The oil-free stainless-steel body regulating valve is used to ensure the accuracy of the measured value.
- Advanced software algorithms improve the test accuracy of sensors.
- Combined chassis configuration solution, users can easily combine related instruments and accessories. The overall package is carried, which makes the user have a more relaxed experience.
- Startup test, no need to oscillate.
- Temperature conversion and pressure data correction.
- Fuzzy computing technology.
- High-power lithium battery power, realize AC and DC dual power supply. No on-site AC power is required. Lithium battery power supply continues to work for more than 8 hours without the need of an external power supply.
- Anti-electromagnetic interference circuit design to ensure product reliability.
- Large-capacity memory, which can realize 1000 sets of data storage functions.

- Purity measurement accuracy is 0.5% in the full range. It can be applied to the measurement of high concentration SF6 gas and 70% content SF6 gas.
- The best test flow area shows that the user can adjust the gas flow intuitively and quickly. Reduce test time.
- The air inlet is designed with a miniature self-sealing joint, and the air path to be tested will not leak when the air path is disconnected.
- It can expand USB communication, serial communication, wireless communication module, and realize the communication and printing functions of the upper computer. (optional)
- The gas path pretreatment function can be used to purify the test pipeline before the field test work, which shortens the test time. (optional)
- The instrument has a test gas recovery function to recover the sulfur hexafluoride measurement gas. Protect the natural environment. (optional)

Specification

Measurement method	Infrared Measurement Principle (NDIR series sensors)
Working environment	-20℃ ~ +60℃
Measuring range	0 ~ 100% SF6
Response time	[90%] 60s
Accuracy	± 0.5%FS
Repeatability	± 0.5%

Resolution	0.01%
Display unit	%
Gas flow rate	400 ~ 600ml/min
Flow rate display	0~1000mL import digital flowmeter
Simple gas pressure	≤1MPa
Environment humidity	90%RH
Measurement value influence	No effect of pressure and flow
Power supply	AC 220V±10%, 50Hz / DC Battery inside can work at least 8 hours
Dimension	395*295*155mm
Weight	about 2kg.