



GDSF-311WP SF6 Gas Dew Point and Purity Tester



GDSF-311WP is ideal instrument when it is necessary to test water content and purity of SF6 gas. The core component is DRYCAP series sensors produced by Finland Vaisala company. With professional hardware chips and excellent software algorithms of STMicroelectronics, we have produced a new generation of gas moisture & purity test instrument.

Application

- Moisture monitoring of SF6 gas electrical equipment for electric power
- SF6 gas cylinder gas quality test
- High purity gas manufacturing
- Semiconductor industry dry gas supply
- Research and development use
- Clean room/dry house monitoring

Metal heat treatment site and laboratory industrial gas humidity detection, such as air, CO₂, N₂, H₂, O₂, SF₆, He, Ar and other inert gases.

Features

- Better than $\pm 1^{\circ}\text{C}$ measurement accuracy.
- The whole channel 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.
- Start up test, no need to preheat and 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.
- It can expand USB communication, serial communication, wireless communication module, and realize the communication and printing functions of the upper computer.
- Large-capacity memory, which can realize 1000 sets of data storage functions.
- The test data is stable and can provide both standard dew point values and converted dew point values at 20°C.
- 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.

Specifications

SF6 Humidity

- Measurement method: Resistive and Capacitive measurement principle
- Measurement range: dew point -80°C--+20°C(support ppmv)
- Accuracy: $\pm 1^{\circ}\text{C}$

(when the dew point temperature is below 0 °C, the sensor output is the frost point)

- Response time: 63% [90%]
+20→-20°C Td 5s[45s]
-20→-60°C Td 10s[240s]
- Resolution: 0.01°C
- Repeatability: $\pm 0.5^{\circ}\text{C}$
- Display unit: °C, ppm, °CP20(converted value at 20°C)
- Gas flow: 400-600ml/min
- Flow display: 0-1000mL digital flow meter
- Sample gas pressure: $\leq 1\text{MPa}$

SF6 Purity

- Measurement method: TCD technology.
- Measuring range: 0 ~ 100% SF6.
- Accuracy and repeatability: $\pm 0.5\%$, nothing to do with the flow.
- Power supply: 220VAC $\pm 10\%$, 50Hz, AC/DC use, over-charge protection, continuous working is no lower than 8hours.
- Use environment temperature: -20--+60°C
- Environment humidity: 90%RH
- Measurement value influence: No effect of pressure and flow
- Dimension: 395*295*155mm
- Weight: about 2kg