

SF₆ - 3413

SF₆ Gas Analyzer



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

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►► General information

SF6 Gas Analyze is a portable device designed to measure SF6 gas dew point, purity and decomposition product. The core component with resistive and capacitive method is used to test dew point, European sensor with NDIR method to test SF6 gas purity and electrochemical sensor from Membrapor to test SF6 gas decomposition product. Besides, we also adopt professional hardware chips and excellent software algorithms of STMicroelectronics.

Application

- Analysis of trace moisture, purity and decomposition products 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
- 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

- Dew point adopts reliable high-end Vaisala sensor, which can realize the customization of -80~+20°C & -100~0°C range, and ensure that the annual drift is less than $\pm 1^{\circ}\text{C}$.
- Purity adopts an advanced NDIR sensor, which can ensure the full-scale accuracy of $\pm 0.5\%\text{FS}$.
- Using patented protective gas chamber, the measurement speed is fast.
- 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.
- Compatible with the proprietary Smart Quick cloud platform management software, it can realize the standardized management of test data.
- 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.
- Good repeatability and fast response.
- Built-in temperature compensation function
- The slope rate is automatically calibrated, and the sensor can be automatically calibrated under the condition of self-checking to ensure that the annual drift rate of the whole machine is less than 1%.
- The true color touch screen is 10.1 inches, which is simple and easy to operate.
- The same interface displays data such as micro water, purity, decomposition, and flow.
- Advanced probe protection features.
- Anti-pollution and anti-interference.
- High sensitivity and good stability.
- With gas pump back function, to pump back SF6 gas to gas chamber.

SF₆ Humidity

- Measurement method: RC measurement principle (Finland Vaisala DMT series sensor)
- Measurement range: -80°C--+20°C or -100°C-0°C (support ppmv)
- Measurement error: better than $\pm 1^{\circ}\text{C}$ (When the dew point temperature is lower than 0°C, the sensor output is frost point)
- Resolution: 0.01°C
- Repeatability: $\pm 0.5^{\circ}\text{C}$
- Display unit: °C, ppm, °CP₂₀(converted value at 20°C)

SF₆ Purity

- Measurement method: Infrared Measurement Principle (NDIR series sensors)
- Measuring range: 0 ~ 100% SF₆
- Measurement error: $\pm 0.5\%\text{FS}$
- Repeatability: $\pm 0.3\%$
- Resolution: 0.01%
- Display unit: %

SF₆ Decomposition Products

- Measurement method: Electrochemical Measurement Principle (Electrochemical series sensors)
- Measurement range: H₂S: 0 ~ 100ppmv
SO₂: 0 ~ 100ppmv
CO: 0 ~ 500ppmv
HF: 0 ~ 50ppmv
CF₄: 0 ~ 1500ppmv
- Resolution: 0.5ppmv
- Display unit: ppmv

Pressure

- Test range: 0-1MPa
- Measurement error: 0.1%

Gas Flow

- Moisture measurement: SF₆ and other gases are adjusted at 400~600mL/min
- SF₆ gas purity measurement: 300~450mL/min
- SF₆ gas decomposition product measurement: 250~300mL/min
- Flow rate display: 0 ~ 1000mL imported digital flowmeter
- Sample air pressure: ≤1MPa
- Recycling and filling function: recycling chamber 2L
recycling time ≤ 5min
With gas drying function
- Power supply: 220VAC±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*315mm
- Weight: about 5kg.

Accessories

Main Tester	1 piece
Teflon pipe (include flow adjustment valve and fast connector)	1 set
Tail pipe	1 set
Spare parts	1 set
Charger	1 piece
User's Guide	1 piece
Test Report	1 piece

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Counter



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Spectrophotometer



DSC/TGA



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Micro Plate
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Urine Analyzer



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 **Analytical**[®]
Technologies Limited

HPLC Solutions MultipleLabs Analytical Bio-Med Analytical Distributors Analytical Foundation (Trust)

Corporate & Regd. Office:
Analytical House, # E67 & E68,
Ravi Park, Vasna Road, Baroda,
Gujarat 390 015. INDIA

T: +91 265 2253620
+91 265 2252839
+91 265 2252370
F: +91 265 2254395

E: info@hplctechnologies.com
info@multiplelabs.com
info@analyticalgroup.net
info@analyticalbiomed.com

W. www.analyticalgroup.net
www.hplctechnologies.com
www.multiplelabs.com
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