



# Rapidox SF<sub>6</sub> 6100 PumpBack Gas Analyser

## Features

The Rapidox SF<sub>6</sub> 6100 Pump Back is a fully-automatic gas analysers, designed for controlling and monitoring the quality of SF<sub>6</sub> in medium & high voltage gas insulated electrical equipment.

Exceptional accuracy and stability are provided when measuring the purity of SF<sub>6</sub> gas, through specially selected sensors. The modular configuration allows for up to six compatible gases to be analysed, simultaneously, with one instrument.

Once connected, the Rapidox SF<sub>6</sub> 6100 Pump Back samples gas from the electrical equipment automatically or manually, with an inlet auto gas pressure sensing function. A vacuum purge cycle and gas storage system ensures that no air can contaminate the gas sample and that no SF<sub>6</sub> gas is able to escape during the testing period.

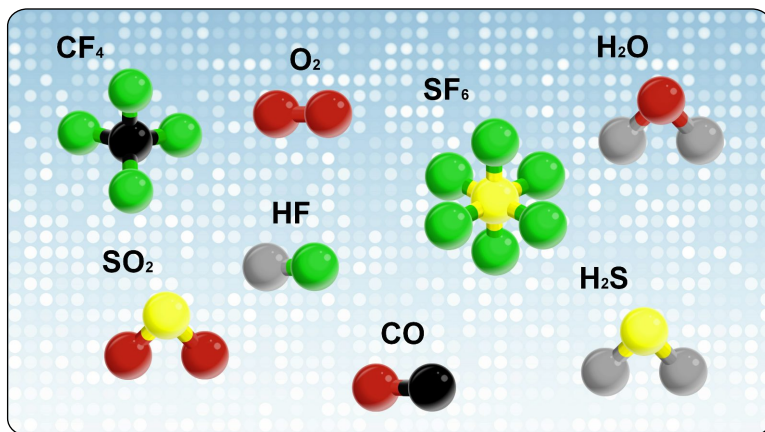
SF<sub>6</sub> gas pressure in the internal sample compartment is recorded and logged by the analyser. All measured gases are analysed and data logged simultaneously with only a few minutes required to achieve a stable reading. A powerful 10 bar compressor, with a separate lithium battery power supply, then returns the gas to the electrical equipment at high pressure.

- Provides SF<sub>6</sub> gas analysis in accordance with environmental legislation
- Modular design allows for bespoke sensor combination upon request
- Large gas storage bag allows up to five measurements before pump back is required
- Lithium battery provides up to eight hours of operation. Charging is possible on any worldwide mains voltage (90-260VAC)
- Housed within a heavy-duty IP66 case with a total weight of 21 kg
- 7" (180mm) full-colour touch screen interface with soft menu keys
- Pre-programmed with all current IEC and CIGRE test configurations, with the ability to create customised test parameters
- All data is continuously logged and Excel compatible data can be downloaded via a USB memory stick
- Thermal printer provides on-site test results
- Multi-language (Please contact for details)

## SF<sub>6</sub> Gas

- Sulphur hexafluoride (SF<sub>6</sub>) gas is commonly used as an insulator within medium and high voltage electrical equipment, in addition to medical and manufacturing applications.
- It is an extremely chemically stable, non-flammable and highly electronegative greenhouse gas; with excellent dielectric properties.
- Analysis of SF<sub>6</sub> will extend the life of the gas and ensure personnel and equipment protection; alongside avoiding unnecessary equipment failures and reducing maintenance expenditure.

## Gases



## Specification

Sample connections	Rectus style fitting
Warm-up time	3-4 minutes at 20°C
Data outputs	Excel compatible data via USB memory stick
Data storage	4GB internal data storage allowing for approximately 1 year of continuous monitoring
Gas sampling	Up to 5 samples taken before internal reservoir is full
Compressor	Up to 10 Bar with up to 25 cycles per battery charge
Pressure range	0.5 - 10 Bar; displayed on screen
Operating temperature	-20°C to 55°C
Battery life	In excess of 8 hours. 4-6 hour charge
Voltage (charging)	90-260VAC, 50/60Hz
Display	7" (180mm) full-colour LCD with touch screen operation
Printer	Integrated thermal printer allows output of results on demand
Analyser dimensions	270mm(H) x 560mm(W) x 450mm(D)
Weight	21 kg (Total instrument and case)

## Accessories

### Calibration and Servicing



### Sample Hose and Couplings



Find out more about  
SF<sub>6</sub> gas analysis at:

[www.sf6.co.uk](http://www.sf6.co.uk)

Please contact Cambridge Sensotec for further information



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Due to continuous product development,  
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