



Rapidox SF₆ 6100 Pump Back Automatic Multigas Analyser

Description

The Rapidox SF₆ 6100 Pump Back is the latest in fully-automatic gas analysers, and is designed for controlling and monitoring the quality of SF₆ in MV & HV gas insulated electrical equipment. Housed within a heavy duty IP66 Peli case; inclusive of wheels and handle, this portable field instrument weighs a total of 17kg (without accessories). A lithium battery provides up to eight hours of operation and a large gas storage bag allows up to five measurements to be taken before pump back is required.

Exceptional accuracy and stability are provided when measuring the purity of SF₆ gas, through specially selected sensors. Other measurable gases can include H₂O (dew point), SO₂, HF, O₂ & CF₄. Due to the modular design, a number of configurations are available in order to suit a variety of application requirements.

Once connected, the Rapidox SF₆ 6100 Pump Back samples gas from the electrical equipment automatically, allowing the operator to stand at a safe distance. A vacuum purge cycle and gas storage system ensures that no air can contaminate the gas sample and that no SF₆ gas is able to escape during the testing period.

 SF_6 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. Alternatively, the gas can be stored internally within the analyser for recycling at a later time.

The analyser is pre-programmed with all current IEC and CIGRE test configurations, and also offers the facility to create customised tests that can be saved on the system for future use. Measurement data is viewed in real time on the display and is saved to the analyser memory. Data is available for download via a USB memory stick in an MS Excel compatible format.

Easy to operate and configure, the Rapidox SF₆ 6100 Pump Back features a 7" (18cm) full colour touch screen interface with soft menu key controls, alongside an alphanumeric keypad that enables the user to edit test locations and user names. An integrated thermal printer also allows the user the option of printing on-site test results that include details such as gas measurements, date, operator and site details.

DN8 and DN20 couplings, as well as a range of stainless steel braided sampling hoses, are available for use with SF_6 gas insulated electrical equipment.

Features

- Portable field instrument housed in a heavy duty IP66 Peli transport case. Total weight: 17kg
- No waste or emissions emitted during the testing of SF₆ purity
- Powerful 10 bar compressor returns SF₆ gas to the electrical equipment at a high pressure
- Up to five separate tests can be performed, with the gas sample stored internally
- Lithium battery power allows for up to 8 hours of operation
- Measurable gases can include SF₆, H₂O (dew point), SO₂, HF, O₂ & CF₄
- Integrated thermal printer to provide on-site printed test results
- 7" (18cm) full colour LCD display with touch screen operation
- Pre-programmed with IEC & CIGRE test standards for fast operation
- Full data-logging and MS Excel compatible data download onto USB memory stick
- Multi-Language (English, French, German, Spanish, Portuguese, Mandarin)
- Password protection feature



Rapidox SF₆ 6100 Pump Back Automatic Multigas Analyser

Applications

- Controlling SF₆ quality in MV & HV gas insulated electrical equipment, such as circuit breakers
- Checking for the build up of corrosive decomposition products present in SF₆ gas
- Applying a condition based maintenance program (CBM) in order to extend the life cycle of the SF₆ gas
- Detecting the presence of leaks and SF₆ discharge

Technical Data: Analyser		
Operating temperature	-20°C to 55°C	
Warm up time	3-4 minutes at 20°C	
Voltage (charging)	90-260VAC, 50/60Hz	
Data output	Excel compatible data via USB memory stick. 4GB internal data storage allowing for approximately 1 year of continuous monitoring	
Sample connections	Rectus fitting	
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	3-10 bar; displayed on-screen	
Display	7" (18cm) full colour LCD display with touch screen operation	
Analyser dimensions	L:560mm x W:450mm x D:270mm	
Weight	17 kg (Total instrument and case without accessories)	
Battery	2 Li-ion batteries in excess of 8 hours with 4-6 hour charge time	
Printer	Integrated thermal printer	

Technical Data: Gas Analysis 0-100% SF₆ - Sulphur Hexafluoride ±0.5% full scale accuracy -60°C to +20°Cdp H₂O - Dew Point ±2°Cdp accuracy of reading 0-100ppm or 0-500ppm SO₂ - Sulphur Dioxide ±2% full scale reading 0-10ppm HF - Hydrogen Fluoride 1ppm accuracy 0-60% CF₄ - Tetrafluoromethane ±1% full scale reading 0-100% O₂ - Oxygen ±1% full scale reading Measurement time 3-5 minutes fully automatic

Rapidox SF₆ 6100 Pump Back analyser





Integrated printer



KESİR Mühendislik

Şerifali Mah. Hendem Cad. No:38 34775 Ümraniye/Istanbul

Main menu screen

Start Pump	Cal	ibrate	Data-Log
-0.9-	Set /	Alarms _e	Sampling
0.6	Set Units		Date/Time
-0.3 -0.2	Options		Password
11:99:04 10/02/2014	Back		

