

# PORTABLE SF<sub>6</sub> GAS ANALYZER

▶ SF6 6100



# SF<sub>6</sub> GAS ANALYZER

## Standard Accessories



Sample Hose and Couplings

## Optional Accessories



Calibration kit

## Description

The SF<sub>6</sub> 6100 Pump Back is a fully-automatic gas analyzer, 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 eight compatible gases to be analyzed simultaneously with one instrument.

Once connected, 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 analyzer. All measured gases are analyzed 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.

## Features

- Provides SF<sub>6</sub> gas analysis in accordance with environmental regulation.
- Modular design allows for a custom sensor combination upon request.
- Lithium battery provides up to eight hours of operation. Charging is possible on any voltage (90-260VAC).
- Housed within a heavy-duty IP66 case with a total weight of 46 lbs (21 Kg).
- 7" (180mm) full-color touch screen interface with soft menu keys.
- Pre-programmed with test configurations, with the ability to create customized 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.

## TECHNICAL SPECIFICATIONS

Sample connections	Quick connection couplings
Warm-up time	3-4 minutes at 68°F (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
Compressor	Up to 10 Bar with to 25 cycles per battery charge
Pressure range	0,5 - 10 Bar; displayed on screen
Operating temperature	-4°F to 130°F (-20° to 50°C)
Battery life	In excess of 8 hours. 4-6 hour charge
Voltage (input)	90-260VAC, 50/60Hz
Display	7" (180mm) full-color LCD with touch screen operation
Printer	Integrated thermal printer allows output of resultus on demand
Dimensions	10 1/2"(H) x 20"(W) x 18"(D) (270mm x 560mm x 450 mm)
Weight	46 lb (21kg) (Total instrument and case)

### Sensor specification

SF <sub>6</sub> - Sulphur Hexafluoride	0-100%	±1% full-scale accuracy
H <sub>2</sub> O - Dew Point	-60°C to ±20°Cdp	±2°Cdp accuracy of reading
SO <sub>2</sub> - Sulphur Dioxide	0-100ppm	±2% full-scale reading

## Mesaureable Gases - Standard

The SF<sub>6</sub> 6100 can measure simultaneously the following 3 gases.



## Mesaureable Gases - Optional

Sensor specification		
HF - Hydrogen Fluoride	0-10ppm	1 ppm accuracy
CF <sub>4</sub> * - Tetrafluoromethane	0-80%	±1% full-scale reading
H <sub>2</sub> S- Hydrogen Sulfide	0-100ppm	±5% full-scale accuracy
CO - Carbon Monoxide	0-1,000ppm	±2% full-scale accuracy
Air	0-100ppm	±5% full-scale reading