

PORTABLE SF₆ GAS ANALYZER

▶ SF6 6100



SF₆ GAS ANALYZER

Standard Accessories



Sample Hose and Couplings

Optional Accessories



Calibration kit

Description

The SF6 6100 Pump Back is a fully-automatic gas analyzer, designed for controlling and monitoring the quality of SF₆ in medium & high voltage gas insulated electrical equipment.

Exceptional accuracy and stability are provided when measuring the purity of SF₆ gas, through specially selected sensors. The modular configuration allows for up to eight compatible gases to be analyzed simultaneously with one instrument.

Once connected, SF6 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 SF₆ gas is able to escape during the testing period.

SF₆ 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 SF₆ 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 ₆ - Sulphur Hexafluoride	0-100%	±1% full-scale accuracy
H ₂ O - Dew Point	-60°C to ±20°Cdp	±2°Cdp accuracy of reading
SO ₂ - Sulphur Dioxide	0-100ppm	±2% full-scale reading

Mesaureable Gases - Standard

The SF6 6100 can measure simultaneously the following 3 gases.



Mesaureable Gases - Optional

Sensor specification		
HF - Hydrogen Fluoride	0-10ppm	1 ppm accuracy
CF ₄ * - Tetrafluoromethane	0-80%	±1% full-scale reading
H ₂ 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