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rapidox SF6
advancing excellence in gas analysis

SF6 6100 Bench Gas Analyser

The Rapidox SF6 6100 Bench mountable gas analyser is designed for controlling and monitoring the quality of SF6 gas within a range of laboratory and field-based applications.

These applications include medical testing, laboratory-based research and development, and the analysis of SF_6 gas present in medium and high voltage gas insulated electrical equipment.

SF_6, SO_2 and H_2O (dew point) gases are simultaneously analysed and data-logged to an exceptionally accurate standard. A gas output nozzle allows for the analyser to be attached to the Rapidox Gas Recovery Bag, ensuring that all sampled SF_6 gas is recovered.

The Rapidox SF_6 6100 Bench analyser is also available as a complete and portable kit, allowing users to carry all of the equipment that they need within a heavy-duty IP66 case.

Each kit includes a set of special tongue and groove self sealing couplings (compatible with famous brands), a swing handle fitted to the analyser and a separate thermal printer.

Please contact Cambridge Sensotec for further information or to discuss your requirements.

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Though highly configurable to suit individual customer requirements, the Rapidox SF_6 6100 Bench possesses a number of features to enhance functionality.

- Low maintenance sensors
- Easy calibration procedure
- Digital outputs
- Optional variable speed pump
- Fully programmable analogue outputs
- Powerful Rapidox software
- Operates on worldwide mains voltage
- Password protection
- Two fully programmable alarms

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SF6 Gas

SF_6 is an extremely stable, non-flammable and highly electronegative gas with excellent dielectric properties. It is commonly used in medium and high-voltage electrical equipment as an electrical insulator, arc-quenching and cooling medium.

However, SF_6 is classified as a greenhouse gas and must be kept within a closed circuit to avoid any deliberate release into the atmosphere. The international Kyoto agreement protocol has mandated reductions to harmful emissions amongst its member states.

For the power transmission and distribution network, SF_6 technology remains essential. To protect personnel, equipment and the environment regular SF_6 analysis should be adopted within the maintenance schedule. The early identification of any decomposition products and moisture within the SF_6 gas will help avoid unnecessary shutdowns, outages and failures, in addition to reducing maintenance expenditures.

Accessories

1 Calibration Kit and Service

2 Gas Recovery Bag

3 Sampling Kit

Specification

SF6 - Sulphur Hexafluoride	0-100%, ±0.5% full-scale accuracy
H2O - Dew Point	-60°C to +20°Cdp, ±2°Cdp accuracy
SO2 - Sulphur Dioxide	0-100ppm, ±2% full-scale reading
Ambient Operating Conditions	-10°C to +40°C, 10-90% RH, 800-1100mbara
Warm-up Time	3-4 minutes at 20°C
Response Time	3-5 minutes
Voltage	90-260 VAC, 50/60Hz
Voltage Outputs	0-5V linear, user programmable
Sample Connections	Special tongue and groove self sealing couplings (compatible with famous brands)
Current Outputs	4-20mA linear, user programmable
Digital outputs	RS232 (RS485 option available). Data streamed on demand
Max Inlet Pressure	10 Bar gauge (protected)
Optional Pump	0-1 litres per minute
Calibration	SF6 and SO2: User selectable gas values. H2O: Sensor is factory fitted
Display	20 x 4 character (9mm) back-lit LCD
Analyser Dimensions	150mm(H) x 350mm(W) x 263mm(D)
Weight	7kg

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