



Rapadox 6100 C4-FN & C5-FK

The Rapadox 6100 C4-FN & C5-FK is a fully- automatic zero-emissions multi-gas gas analyser for measuring gas compartments containing mixtures of C4-FN (Novec 4710) & C5-FK (Novec 5110) blended with CO₂ and O₂, all combined in a single portable instrument.

Common brand names for these gases are g3 and AirPlus. The modular design allows the customer to purchase only the gas types they require with the potential to upgrade the instrument in the future. The Rapadox measures the gas purity, water-content and contamination gases for each gas type in high voltage switchgear, circuit breakers and transformers as well as gas bottles. It is a fully portable lithium battery powered instrument.

Exceptional accuracy and stability are provided when measuring the purity of the compartment gas, through specially selected sensors. The modular configuration allows for up to six compatible gases to be analysed simultaneously in each gas type, using one analyser. The Rapadox is fully compatible with mixtures of C4-FN & CO₂/O₂, C5-FK & CO₂, together with carbon monoxide which is the primary toxic contamination gas. The unit also measures the water content of the gas in dewpoint or ppm to ensure dryness is acceptable.

The Rapadox 6100 C4-FN & C5-FK is housed neatly in an IP66-rated Peli transport case and supplied with sample hoses, DN8 and DN20 coupling accessories. Once powered and connected, the operator can select which gas blend to work with and the Rapadox configures the measurement screen correctly. If the user is changing gas type the unit will run a purge cycle to clean the existing gas from the analyser and into an external recovery bag. During the measurement the Rapadox automatically removes a small quantity of pressurised gas from the electrical equipment or gas cylinder, controlled with an automatic pressure sensing function. A vacuum purge cycle and internal gas storage system ensures that no air can contaminate the gas sample and that no test gas is able to escape during the testing period.

Technical Specifications

Specifications

Ambient Operating Conditions	-10°C to +40°C, 10–90% RH, 600–1100mbar
Warm-up Time	Min 3–4 minutes at 20°C (Recommended 15 mins to achieve full accuracy)
Charging Voltage	90–260 VAC, 50/60Hz
Battery Life	Up to 8 hours. 4–6 hour charge
Sample Connections	Rectus style fitting compatible with famous brands
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 up to 25 cycles per battery charge at 20°C
Measurement Time	2–8 minutes (Min 6 minutes required for H ₂ O)
Pressure Range	0.5–35 Bar
Gas Flow Rate	0.5 L.min ⁻¹
Max Inlet Pressure	35 Bar gauge (10 Bar for Pumpback operation)
Display	7" (178mm) full-colour LCD touch screen interface with soft menu keys
Printer	Integrated thermal printer allows output of results on demand
Analyser Dimensions	270mm(H) x 560mm(W) x 450mm(D)
Weight	21kg (Total instrument and case)